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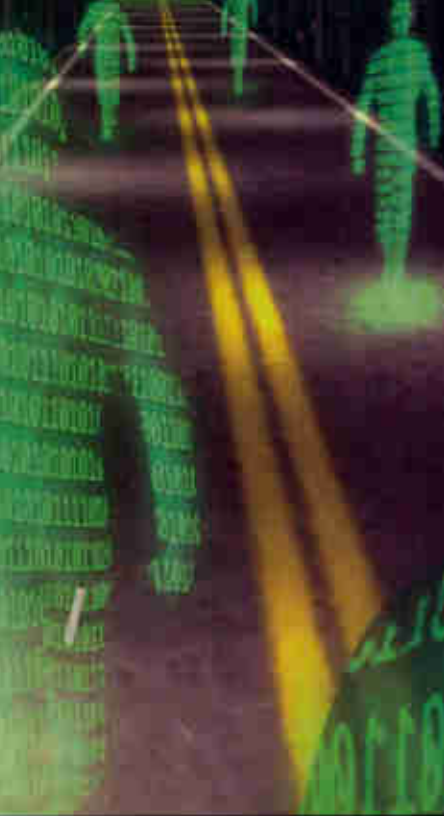
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In-Rack Audio & Video Monitoring

Wohler Speaker Systems

AMP1A



The unit that started the In-Rack speaker revolution. Compact (1U) and convenient quality audio monitoring direct from your rack. We offer models for all applications & budgets.

AMP2-VSDA

Top of the line speaker system accepts SDI and AES digital inputs together with analog. Features powerful 104dB high quality output, four level meters and phase indication. Decodes and/or demuxes digital signals.



Wohler Level Meters

LM106-6



6 channels of 106-segment, ultra-high resolution tri-color LED bargraphs. Mounted horizontally in 1U chassis. Also Available with Dolby® Digital Decoder.

LM53-24

Monitor 24 channels of audio in only 2U. Features 24 channels of 53 segment, high resolution tri-color LED bargraph displaying audio levels. Unit is mounted vertically in a 2U chassis.



PANORAMA^{dtv} LCD Video Monitors

VAMP-24



Excellent unit for monitoring both audio and video directly from the rack. High quality color LCD video monitor offers confidence monitoring from either of two composite analog video inputs, auto-sense NTSC/PAL. Audio features internal or external speaker switch - no need for separate amplifier. 4 channel input selection and 4 high resolution 53 segment tri-color level meters.

VAMP-2SDI

Same features as the VAMP-24 analog unit with the added capability of accepting SDI and AES digital inputs. Converts SDI to analog composite video and offers output for use with larger external video monitors. All this in only 2U of rackspace.



MON4-3

Quad LCD color monitor in only 3U of rackspace. 4 High quality and very bright LCD monitors. Features adjustable viewing angle, full picture control, auto-sensing for NTSC / PAL and mix & match analog and digital video inputs. Perfect for confidence monitoring of multiple video feeds for mobile trucks, news and control room applications.

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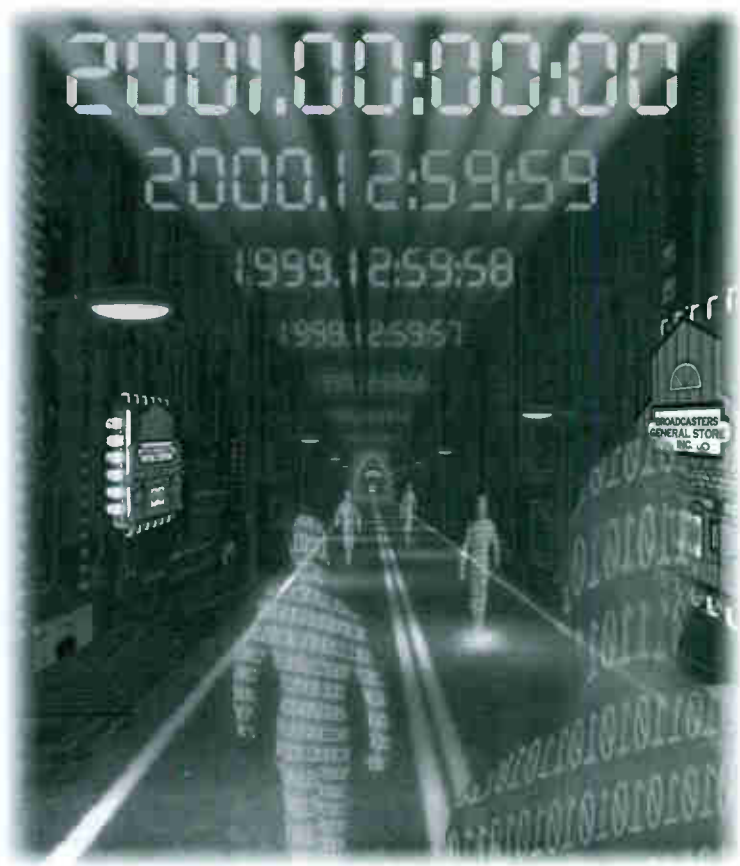
Broadcasters General Store

2480 S.E. 52nd Street • Ocala, FL 34480-7574



Welcome to Broadcasters General Store Reference Catalog. We hope this will serve as a handy tool in your planning process. Remember to get more information on an item, we would be happy to fax or mail more information. Quicker yet --- log onto our Web Site and you can be hotlinked to any of the manufactures sites for the most current and detailed information!

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Hours

Monday thru Friday
8:30AM to 6PM EST

Amplifiers • Distribution Amps



Audio Distribution Amplifiers	Configuration	Input Connector	Output Connector	Meters	Level Adjust	Head-phone Jack	Rack Mount	Power Supply	Price
Aphex 120A	1x4	XLR	XLR	—	Yes	—	Opt 1U \$29.95	120-240V	\$319.00
ATI DA1008-2	1x8	Barrier Strip	Barrier Strip	Yes	Yes	Yes	1U	117V	\$849.00
ATI DA2016-2	Dual 1x8	Barrier Strip	Barrier Strip	Yes	Yes	Yes	1U	117V	\$1,169.00
ATI DA1000-1	1x8	Barrier Strip	Barrier Strip	—	Yes	Yes	Opt 1U \$25-\$28	117V	\$379.00
ATI DA2008-1	Dual 1x4	Barrier Strip	Barrier Strip	—	Yes	Yes	Opt 1U \$25-\$28	117V	\$399.00
ATI DA206	Dual 1x3	XLR	XLR	—	Yes	—	1U	115V	\$479.00
ATI DA412	Quad 1x3	Barrier Strip	Barrier Strip	—	Yes	—	Opt 1U \$25-\$28	115V	\$679.00
ATI DA208	Dual 1x4	Barrier Strip	Barrier Strip	—	Yes	—	Opt \$25-\$28	115-240V	\$389.00
ATI DA416	Quad 1x4	Barrier Strip	Barrier Strip	—	Yes	—	Opt 1U \$25-\$28	115-240V	\$569.00
ATI DDA106-XLR	1x6	XLR	XLR	—	Yes	—	1U	115-240V	\$799.00
ATI DDA112-XLR	1x12	XLR	XLR	—	Yes	—	1U	115-240V	\$959.00
ATI DDA206-XLR	Dual 1x6	XLR	XLR	—	Yes	—	1U	115-240V	\$1,199.00
ATI DDA112-BNC	1x12	Barrier Strip	Barrier Strip	—	Yes	—	1U	115-240V	\$759.00
ATI DDA124-BNC	1x24	Barrier Strip	Barrier Strip	—	Yes	—	1U	115-240V	\$899.00
ATI DDA212-BNC	Dual 1x12	Barrier Strip	Barrier Strip	—	Yes	—	1U	115-240V	\$1,089.00



Audio Distribution Amplifiers	Configuration	Input Connector	Output Connector	Meters	Level Adjust	Head-phone Jack	Rack Mount	Power Supply	Price
AUDIOARTS SDA-8400	Stereo 1x8 or 2x4 or Mono 1x16, 2x8 or 4x4	3-Pin Molex	3-Pin Molex	—	Yes	—	1U	120V	\$524.00
Benchmark IFA-9	1x6	DB-25	DB-25	—	Yes	—	Opt 1U \$25	Opt 16V PS-1 \$35	\$225.00
ESE ES217	1x4	Barrier Strip	Barrier Strip	—	Yes	—	—	117V	\$195.00
ESE ES217XLR	1x4	XLR	XLR	—	Yes	—	—	117V	\$320.00
ESE PC217	1x4	Computer Card / PC Compatible						—	\$95.00
ESE ES246	Quad 1x6	Barrier Strip	Barrier Strip	—	Yes	—	1U	117V	\$395.00
ESE ES246XLR	Quad 1x6	XLR	XLR	—	Yes	—	1U	117V	\$695.00
Graham Patten DA-14A	1x4	XLR	XLR	—	—	—	Opt RT-2 hold 3 \$449	Opt 115V PS-3A \$20	\$399.00
Graham Patten DA-14B	1x4	BNC	BNC	—	—	—	Opt RT-2 hold 3 \$449	Opt 115V PS-3A \$20	\$399.00
Henry Engineering U.S.D.A.	2x4	Barrier Strip	Barrier Strip	—	Yes	—	—	115V	\$195.00
Oxmoor MDA16	1x6	XLR	XLR	—	Yes	—	1U	110-220V	\$525.00
Oxmoor MDA26	2x6	XLR	XLR	—	Yes	—	1U	110-220V	\$559.00
Radio Design Labs ST-DA3	1x3	Screw Terminal Block	Screw Terminal Block	—	Yes	—	Opt \$127 holds 12	Opt 24Vdc PS24A \$31	\$134.00
Radio Design Labs STM-DA3	1x3 (mic level)	Screw Terminal Block	Screw Terminal Block	—	Yes	—	Opt \$127 holds 12	Opt 24Vdc PS24A \$31	\$134.00
Radio Design Labs RU-AED4	1x4	XLR	XLR	—	—	—	Opt RU-RA3 \$31	Opt 24Vdc PS24U2 \$68	\$599.00
Radio Design Labs RU-BDA3	1x3	XLR	XLR	—	Yes	—	Opt 1U RU-BR1 \$27	Opt 24Vdc PS24A \$31	\$237.00
Radio Design Labs RU-DA4D	2x4	Barrier Strip	Barrier Strip	—	Yes	—	Opt 1U RU-BR1 \$27	Opt 24Vdc PS24A \$31	\$245.00
Radio Design Labs RU-SPD4	1x4	BNC/Phono	BNC/Phono	—	—	—	Opt RU-RA3 \$31	Opt 24Vdc PS24U2 \$68	\$745.00

Amplifiers • Distribution Amps

Radio Systems DA-16



Radio Systems DA-4x4a



Rane DA216



SBS DA-IT



Symatrix 305



Shure FP16A

Ward-Beck POD8



Studio Technologies M80 & M85



Audio Distribution Amplifiers	Configuration	Input Connectors	Output Connectors	Meters	Level Adjust	Head- phone Jack	Rack Mount	Power Supply	Price
Radio Systems DA-8	1x8	Barrier Strip	Barrier Strip	—	Yes	—	1U	115-230V	\$340.00
Radio Systems DA-16	2x8	Barrier Strip	Barrier Strip	—	Yes	—	1U	115-230V	\$425.00
Radio Systems DA 4x4a	1x16 or 4x4 or 2x8	Barrier Strip	Barrier Strip	—	Yes	—	1U	110V selectable - 120/220V	\$495.00
Rane DA216	1x8	Screw Terminal Block	Screw Terminal Block	—	Yes	—	1U	120V	\$499.00
Rolls RA63	1x6	Barrier Strip	Barrier Strip	—	Yes	—	1U	120V	\$188.00
SBS DA-IT	2x4 or 1x8	XLR	XLR	—	Yes	—	Surface Mount	115/230V	\$275.00
SBS DA-IT/R	2x4 or 1x8	XLR	XLR	—	Yes	—	1U	115/230V	\$339.00
Shure FP16A	1x6	XLR	XLR	—	Yes	—	Opt A16R \$35	120V/9Vdc	\$657.00
Studio Technologies M80	1x8	TRS	TRS	—	—	—	1U	120/240V	\$549.00
Studio Technologies M85	2x8	AES/XLR	AES/XLR	—	—	—	1U	120/240V	\$549.00
Symatrix 305	1x4	Barrier Strip	Barrier Strip	—	Yes	—	Opt RM3 \$39	117V	\$199.00
Ward-Beck POD8	1x6	Screw Terminal Block	Screw Terminal Block	—	Yes	—	RMK-1 or RMK-2 \$50	115/230V	\$300.00
Ward-Beck POD12/75	1x6	BNC	BNC	—	—	—	RMK-1 or RMK-2 \$50	115/230V	\$495.00
Ward-Beck POD12/110	1x6	Screw Terminal Block	Screw Terminal Block	—	—	—	RMK-1 or RMK-2 \$50	115/230V	\$495.00

ATI DA 10000 Modular Amplifier

The ATI System 10,000 Modular Amplifiers mix interchangeable distribution, microphone or line amplifier modules into one rack frame. Each 3U rack holds up to ten amplifier modules and two redundant plug-in power supplies. Features include: Headphone jacks on all modules allow a quick signal check. • Backup, alarmed, load sharing power supply modules with separate fusing and regulation in each amplifier module minimize localized heat buildup and yield the highest system reliability. • Barrier blocks with pre-wireable strips or punch blocks make installation a snap!



Please call for more information and pricing!

- RM-100 3U Rack Frame Assembly \$399.00
- PS-100 Power Supply, 115/230Vac in, ±17Vdc out, diode isolated outputs for redundant operation, power failure alarm output and indicators. \$365.00
- Modular Distribution Amplifiers Range in Price from \$269 to \$495.00
- Modular Line Amplifiers Range in Price from \$249 to \$399.00
- Modular Microphone Amplifiers Range in Price from \$259 to \$429.00

Benchmark Systems 1000

Modular Amplifier

Benchmark Systems 1000 with over 14 different modules, 4 power supply options, numerous controllers and accessories provides the ability not only to distribute audio throughout your facility, but to control it. Mounted on a distribution amplifier, System 1000 module daughter-boards place the power of remote gain or mono/stereo mode control at your fingertips.



- MF-300 3U 12-Module Frame \$495.00
- MF-300MLX.. 12-Module Frame w/latching Molex connectors \$645.00
- Power Supplies Range in Price from \$930 to \$1,760.00
- Line Level DA Modules Range in Price from \$260 to \$460.00
- Mic Pre/DA Modules Range in Price from \$390 to \$510.00
- Utility Modules Range in Price from \$200 to \$490.00

sbs FlexDA Routing DA



sbs FlexDA packs four inputs, sixteen outputs and a flexible routing system into 1U. It's designed to distribute audio sources to multiple loads, each of which may be balanced, unbalanced, mono or stereo. The four inputs have individual front panel gain controls, and drive "audio present" LEDs for at-a-glance monitoring of signal status. Each output may be individually assigned to any of the inputs, or to one of two internal mix busses which carry a user-defined combination of the input signals and can be used for simple mono mixes, or more complex applications. The FlexDA is packaged in a novel 1U case with moveable rack ears which allow the unit to be mounted with the connectors facing either direction within a 19 inch rack; alternatively, the ears may be rotated through 90 degrees for screw-down or screw-under mounting. When the screw-down or screw-under mounting method is used, an extra pair of rack ears is recommended to support the rear of the unit. Five year warranty.

- FlexDA Routing DA \$549.00
- Additional Rack Ear Kit \$7.00

Amplifiers • Power Amps

Alais RA100



Audio Source Amps Multichannel Amplifiers



Audio Source Amps can be mounted in any combination in the optional 19" EIA chassis. Other features include: front panel LED's and a headphone jack for status monitoring; low cut (100Hz) and phase reverse

switches; balanced XLR input, unbalanced RCA in/ RCA line out jacks and gold plated 5 way binding posts.



Amp 5.1

Amp 5.1 ... 100W \$169.95
 Amp 5.2 ... 150W \$249.95
 Amp 5.3 ... 250W \$299.95
 Chassis \$79.95

BGW PS1



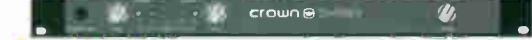
BGW Pro 310 & Pro 350A



BGW MIL1



Crown D75



Crown MA1200



Crown MT2400



Crown PB1



Crown PT2



Electro-Voice 7100



Furman SP20A



Hafler 9505



Hafler P1000



Power Amplifiers	Power/Ch Stereo Into 8 Ohms	Rack Units	Depth/ Inches	Weight lbs.oz	Cooling	Level Control	Input Connector	70V Direct Out	Warranty Years	Price
Alesis RA100	75W	2U	8	14.25	Passive	Front	Terminal Screw Block	—	1	\$379.00
ATI MA-1000	10W	1/2-1U Opt RM \$25-\$28	6	5	Passive	Front	Barrier Strip	—	1	\$499.00
BGW MIL1	190W	3U	12.8	32	Fan	Front	XLR/TRS	Opt.	5	\$786.00
BGW PS1	190W	2U	13.5	31	Fan	Front	XLR/TRS	—	3	\$874.00
BGW PRO 200	160W	1U	11.9	19	Passive	Front	XLR/TRS	—	3	\$999.00
BGW PRO 350A	275W	3U	11.8	40	Passive	Front	XLR/TRS	Yes	3	\$1,419.00
Bryston 2B-LP-PRO	60W	1U	10	18	Passive	Rear	RCA	—	20	\$1,100.00
Bryston 3B-ST-PRO	120W	3U	9	22	Passive	Rear	XLR/TRS/RCA	—	20	\$1,800.00
Bryston 4B-ST-PRO	250W	3U	15.5	42	Passive	Rear	XLR/TRS/BS	—	20	\$2,350.00
Bryston 5B-ST-PRO	120Wx3	3U	15.5	42	Passive	Front	XLR/TRS/RCA	—	20	\$2,550.00
Bryston 7B-ST-PRO	500W Mono	3U	15.5	42	Passive	Rear	XLR/TRS/BS	—	20	\$2,500.00
Bryston 8B-ST-PRO	120Wx4	3U	15.5	44	Passive	Rear	XLR/TRS/BS	—	20	\$3,100.00
Bryston 9B-ST-PRO	120Wx5	3U	17	65	Passive	Rear	XLR/TRS/BS	—	20	\$3,695.00
Crown CE-1000	275W	3U	13	32.9	Fan	Front	XLR/TRS	—	3	\$718.00
Crown CE-2000	400W	3U	13	40.3	Fan	Front	XLR/TRS	—	3	\$1,025.00
Crown CT-210	110W	2U	16	29.7	Fan/Opt	Rear	Barrier Strip	Yes	3	\$974.00
Crown CT-410	230W	2U	16	31.15	Fan	Rear	Barrier Strip	Yes	3	\$1,230.00
Crown CT-810	305W	3U	16	47.4	Fan	Rear	Barrier Strip	Yes	3	\$1,717.00
Crown CT-1610	540W	4U	16	57.14	Fan	Rear	Barrier Strip	Yes	3	\$2,229.00
Crown CP-660	60Wx6	2U	12.75	25	Fan	Rear	TRS	—	3	\$849.00
Crown D-45	25W	1U	9	10	Passive	Front	XLR/Barrier Strip	—	3	\$487.00
Crown D-75A	40W	1U	9	10	Passive	Front	XLR/Barrier Strip	—	3	\$641.00
Crown K-1	350W	2U	16	32	Passive	Front	TRS	—	3	\$1,532.00
Crown K-2	500W	2U	16	38	Passive	Front	XLR/TRS	—	3	\$1,840.00
Crown MA-600	220W	2U	16	39.9	Fan	Front	XLR	—	3	\$1,532.00
Crown MA-1200	310W	2U	16	44.1	Fan	Front	XLR	—	3	\$1,789.00
Crown MA-2400	520W	2U	16	51.12	Fan	Front	XLR	—	3	\$2,299.00
Crown MA-3600VZ	1120W	2U	16	55.4	Fan	Front	XLR	—	3	\$3,172.00
Crown MA-5000VZ	1300W	4U	16	77.12	Fan	Front	XLR	—	3	\$4,146.00
Crown MT-600	220W	2U	16	36.4	Fan	Rear	TRS	—	3	\$1,075.00
Crown MT-1200	320W	2U	16	41.1	Fan	Rear	TRS	—	3	\$1,383.00
Crown MT-2400	520W	2U	16	46.14	Fan	Rear	TRS	—	3	\$1,793.00
Crown PB-3	1500W	2U	16	36	Fan	Rear	TRS	—	3	\$1,409.00
Crown PT-1	220W	2U	16	30	Fan	Front	XLR/TRS	—	3	\$1,281.00
Crown PT-2	325W	2U	16	33	Fan	Front	XLR/TRS	—	3	\$1,512.00
Crown PT-3	540W	2U	16	36.8	Fan	Front	XLR/TRS	—	3	\$1,768.00
Crown 1400CSL	500W	2U	16	36	Fan	Rear	XLR/TRS	—	3	\$1,409.00
Electro-Voice 7100	100W	1U	12.8	18.2	Passive	Front	XLR/TRS	—	3	\$578.00
Electro-Voice 7300A	250W	3U	12.75	39	Fan	Front	XLR/TRS	—	3	\$818.00
Electro-Voice P1200	370W	2U	16.8	37.5	Fan	Front	XLR	—	3	\$1,578.00
Electro-Voice P2000	560W	3U	16.8	72	Fan	Front	XLR	—	3	\$2,738.00
Electro-Voice P3000	850W	3U	16.8	72	Fan	Front	XLR	—	3	\$3,578.00
Furman SP20A	20W	1/2-1U Opt RM \$25-\$38	8.25	9	Passive	Front	TRS	—	3	\$289.00
Furman SP20AB	20W	1/2-1U Opt RM \$25-\$38	8.25	11	Passive	Front	TRS	—	3	\$323.00
Hafler P1000 Trans Nova	50W	1U	8.4	12	Passive	Front	XLR/TRS/RCA	—	5	\$569.00
Hafler P1500 Trans Nova	75W	2U	8.5	22	Passive	Front	XLR/TRS	—	5	\$599.00
Hafler P3000 Trans Nova	150W	2U	10	23	Passive	Front	XLR/TRS	—	5	\$779.00
Hafler P4000 Trans Nova	200W	3U	11	34	Convection	Front	XLR/TRS	—	5	\$999.00
Hafler P7000 Trans Nova	350W	2U	12.875	40	Fan	Front	XLR/TRS	—	7	\$1,399.00
Hafler 9505 Trans Nova	250W	3U	12.5	50	Passive	None	XLR/TRS/RCA	—	7	\$2,200.00

Amplifiers • Power Amps

Power Amplifiers	Power/Ch Stereo Into 8 Ohms	Rack Units	Depth/Inches	Weight lbs.oz	Cooling	Level Control	Input Connector	70V Direct Out	Warranty Years	Price
JBL MPC-200	170W	2U	18	27	Fan	Rear	Euro	\$200	3	\$745.00
JBL MPC-300	200W	3U	18	42	Fan	Rear	Euro	\$250	3	\$945.00
JBL MPC-600	475W	3U	18	50	Fan	Rear	Euro	\$300	3	\$1,395.00
Mackie M800	140W	2U	15.2	32	Passive	Front	XLR/TRS	—	5	\$549.00
Mackie M1400	300W	2U	15.25	36	Fan	Front	XLR/TRS	—	5	\$699.00
Mackie M2600	500W	3U	15.7	55	Fan	Front	XLR/TRS	—	5	\$1,199.00
QSC MX700	170W	2U	12	25	Fan	Front	TRS/BS	—	3	\$715.00
QSC MX1500a	275W	2U	18	47	Fan	Front	TRS/BS	—	3	\$1,265.00
QSC MX2000a	475W	3U	18	70	Fan	Front	TRS/BS	—	3	\$1,665.00
QSC MX3000a	825W	3U	18	69	Fan	Front	TRS/BS	—	3	\$2,465.00
QSC PL1.0	210W	2U	18	18	Fan	Front	XLR/TRS/BS	—	3	\$1,488.00
QSC PL1.4	325W	2U	18	18	Fan	Front	XLR/TRS/BS	—	3	\$1,698.00
QSC PL1.8	450W	2U	18	18	Fan	Front	XLR/TRS/BS	—	3	\$2,028.00
QSC PL3.4	725W	3U	18	36	Fan	Front	XLR/TRS/BS	—	3	\$2,998.00
QSC PL4.0	900W	2U	18	36	Fan	Front	XLR/TRS/BS	—	3	\$3,398.00
QSC PL6.0	1500W	3U	18	60	Fan	Front	XLR/TRS/BS	—	3	\$5,948.00
QSC PL9.0	1800W	3U	18	60	Fan	Front	XLR/TRS/BS	—	3	\$6,998.00
QSC PLX-1202	200W	2U	13.25	21	Fan	Front	TRS/XLR	—	3	\$838.00
QSC PLX-1602	300W	2U	13.25	21	Fan	Front	TRS/XLR	—	3	\$978.00
QSC PLX-2402	425W	2U	13.25	21	Fan	Front	TRS/XLR	—	3	\$1,258.00
QSC PLX-3002	550W	2U	13.25	21	Fan	Front	TRS/XLR	—	3	\$1,398.00
QSC PLX-3402	725W	2U	13.25	21	Fan	Front	TRS/XLR	—	3	\$1,638.00
QSC USA400	125W	3U	9.5	24	Passive	Rear	TRS/XLR	—	3	\$715.00
QSC USA900	270W	3U	9.5	34	Fan	Rear	TRS/XLR	—	3	\$855.00
QSC USA1310	400W	4U	10.8	54	Fan	Rear	TRS/XLR	—	3	\$1,250.00
Radio Design Labs ST-PA2	2W Mono	Stick-On Opt	PS24A	\$18	Passive	Front	Screw Terminal Block	—	3	\$68.00
Radio Design Labs ST-PA6	6W Mono	Stick-On Opt	PS24A	\$18	Passive	Front	Screw Terminal Block	—	3	\$94.00
Radio Design Labs RU-PA518	18W Mono	1U	3	1.16	Passive	Front	Screw Terminal Block/RCA	—	3	\$227.00
ROLLS RA235	35W	1U	5	5.5	Passive	None	TRS/RCA	—	1	\$200.00
ROLLS RA280	50W	2U	7.5	12	Passive	Front	TRS/RCA	Yes	1	\$250.00
Samson Servo 120	42W	1U	11.5	16	Passive	Front	TRS/RCA	—	3	\$259.99
Samson Servo 170	60W	2U	9.5	14	Passive	Front	TRS/RCA	—	3	\$299.99
Samson Servo 260	90W	2U	9.5	18	Passive	Front	TRS/RCA	—	3	\$379.99
Samson Servo 550	185W	3U	9.2	32.5	Passive	Front	TRS	—	3	\$499.99
Samson Servo 4060	47Wx4	2U	10.75	25	Passive	Front	TRS/RCA	—	3	\$499.99
Samson Servo 4120	70Wx4	2U	10.75	25	Passive	Front	TRS/RCA	—	3	\$729.99
Samson S700	700W	2U	9.75	31	Fan	Front	XLR/TRS	—	3	\$549.99
Samson S1000	1000W	2U	9.75	36	Fan	Front	XLR/TRS	—	3	\$649.99
Sony SRP-P50	50W	1U	14	18	Passive	Front	XLR	—	90L/1P	\$545.00
Symetrix 420	20W	1U	7	7.6	Passive	Front	XLR/TRS	—	2	\$449.00
Tascam PA-20MKII	25W	1U	4	9.9	Passive	Front	XLR/RCA	—	1	\$250.00
Tascam PA-150	115W	2U	13	20.9	Fan	Front	XLR/RCA	—	1	\$399.00
Yamaha A100A	50W	2U	8.8	10.2	Passive	Front	XLR/TRS	—	1	\$329.00
Yamaha P1600	155W	2U	18	27	Fan	Front	XLR/TRS/BS	—	1	\$599.00
Yamaha P3200	350W	2U	18	33	Fan	Front	XLR/TRS/BS	—	1	\$849.00
Yamaha P4500	480W	2U	18	35	Fan	Rear	XLR/TRS/BS	—	1	\$999.00
Yamaha XS250	170W	3U	12.5	40	Fan	Rear	XLR/BS	—	1	\$599.00
Yamaha XS350	230W	3U	12.5	44	Fan	Rear	XLR/BS	—	1	\$699.00

Hafler PL500



Hafler P7000



Mackie MT400



Mackie M2600



QSC PL 9.0



Radio Design Labs ST-PA6 & RU-PA518



Samson Servo 120



Samson Servo 260



Symetrix 420



Tascam PA150



Tascam PA-20MKII



Yamaha P4500



Audio Processing • Air

Aphex FM Pro 2020



With the Aphex FM Pro 2020 you can literally design the sound of a radio station to generate a highly competitive on-air sound unique and effective for your market and format. The 2020 is upgradeable and modular • has sixteen user programmable read-write presets • eight read-only presets optimized for a variety of radio program formats • an internal clock/calendar facilitates an extensive day-part automation capability • menu driven controls permit easy front panel operation while a PC and modem or RS232 cable can control and monitor every parameter • password security • front panel real-time indicators of all major processes • and fail-safe operation is assured by a power-off internal relay bypass and fast program recovery after shut down. All processing is accomplished in the analog domain and the basic unit has analog stereo I/O's. 2U & 15lbs.

- 2020 FM Pro Basic Unit \$4,995.00
- 2020-1 AES/EBU digital I/O \$500.00
- 2020-2 Pre-emphasis limiter \$500.00
- 2020-3 Stereo generator & pre-emphasis limiter \$2,000.00

CRL AM Amigo



The CRL Amigo AM is a complete, self contained processor for AM stereo or mono applications. It contains wide range multi-band AGC, exclusive matrix limiting with full mono gain support and stereo soundfield enhancement circuitry. Easy to set up and use. 1U

- Amigo AM \$2,150.00

CRL FM Amigo



The CRL Amigo is an FM stereo processing system designed for small market and educational stations. It is a stand alone system, needing no pre or post processing. The Amigo has a wide range input AGC, multi-band limiter and digitally synthesized stereo generator. User selectable options such as AGC gain reduction level, stereo sound field enhancement and limit/clip priority are included. The unit is extremely easy to set up and use.

- Amigo FM \$2,150.00

CRL Millennium



The CRL Millennium is based on a 32-bit floating point, 40MHz DSP platform, with LCD

touch screen programming.. It uses a fifth order Delta Sigma 18-Bit resolution A/D converter and eight times over sampling D/A converters, hence providing unparalleled dynamic range. All normal controls can be changed with a touch of the screen and are changed in real time. You can customize your Millennium with just a few key strokes or use one of the numerous factory presets. The 100% digital architecture includes a wide-band AGC, 5 band compressor, tri-band limiting, final fast limiter, and stereo generator. Analog, AES/EBU, and Toslink fiber optic inputs and Analog, AES/EBU, Toslink, and two independent composite outputs are standard. Full remote control and easy to upgrade future software packages.

- Millennium \$10,950.00

See more Generators on Pages 158-162....

CRL MBL-100 AM News/Talk



The CRL MBL-100 is a stand alone processor designed for AM news/talk and sports formats. By combining 7.5kHz filtering with powerful multi-band limiting, very high levels of average modulation density are achieved, therefore, intelligibility of speech is improved as is signal coverage area.

- MBL-100 \$3,895.00

CRL BAP-2000 Audio Processor for Mono FM or TV



The CRL BAP-2000 is a stand alone audio processor for mono FM or TV consisting of a two band AGC, limiter and built-in dynafex® noise reduction. For TV applications an Fh filter is included. Great for non-stereo TV transmitters.

- BAP-2000 \$1,950.00

CRL TVS-3001 Stereo-TV Tri-Band AGC



Designed for Stereo-TV, the CRL TVS-3001 is a two-channel tri-band AGC having a capability of up to 30dB of gain reduction. Integral Fh filters are also included as is an exclusive CRL/CBS loudness controller that "tames" loudness problems. The TVS-3001 also senses and corrects phase reversal problems on program material. The TVS-3001 is placed at the studio and prevents audio overload of the STL/telco feeds.

- TVS-3001 Stereo 3 Band AGC/Loudness Controller \$4,895.00
- TVS-3010 TVS-3001 combined with stereo sound field enhancer, advance pre-emphasis limiter & 15kHz LP filters \$6,395.00

CRL TVS-3003 MTS Stereo Generator & Audio Limiter



The CRL TVS-3003 is an MTS-stereo generator and audio limiter. The TVS-3003 also has a wideband AGC providing up to 20dB of gain reduction. The stereo generator portion of the unit is digitally synthesized and therefore is drift free. Limiting is handled by a two stage "variable transfer function" limiter which smoothly handles peak transients without generating distortion products. A "stereo enhance" feature dramatically improves your viewer's received stereo effect.

- TVS-3003 Stereo MTS Generator & AGC/Limiter \$8,795.00

CRL TVS-3004 PRO Generator



The CRL TVS-3004 is a digitally synthesized subcarrier generator for pro channel or non-public SAP use. Features integrated audio input limiter, data and/or telemetry input ports.

- TVS-3004 Professional Channel (PRO) Generator \$2,295.00

CRL TVS-3005 Audio Program (SAP) Generator



The CRL TVS-3005 can be used for conventional SAP and non-public broadcast applications. It has a rock stable modulator section, auto carrier mute, full remote control capability, PRO channel input port, and low impedance output will drive long cable lengths!

- TVS-3005 Secondary Audio Program (SAP) Generator \$3,395.00
- TVS-3005 with BAP-2000 \$4,995.00

IDT Digital Virtual Processor



DVP \$8,500.00

IDT DVP @ FM (Digital Virtual Processor) is the first processor working on FFT which allows the ability to process without breaking the signal up into bands. Features include: One Advanced Point Processing and eliminates the cascade of functions • processes at 96kHz with a 40-bit floating point • intelligently analyses your signal before processing • measures the effect of processing • monitors the effect of processing • has full remote contro access • upgrades from 10 to 66 DSPs • and has a complete list of factory presets for a quick start.

Audio Processing • Air

Inovonics 222 AM Processor



The Inovonics 222 is an audio processor specifically intended for AM broadcasting. It incorporates an "adaptive" pre-emphasis characteristic to enhance signal intelligibility and "presence," and a sharp cut-off, low-pass function to eliminate adjacent channel interference. It also has feed-forward PWM control and a built-in peak limiter.

222-00 AM Processor 10kHz cutoff NRSC \$720.00

Inovonics 235

AM Processor/AGC/Compressor/Limiter/NRSC



The Inovonics 235 is a full-featured audio processor for mono AM broadcasting. It features "gain-riding" AGC, 3 bands of compression and EQ, and an asymmetrical limiter/clipper. The 235 is NRSC compliant and AMAX certified. A built-in RS232 port enables optional computer control.

235 AM Processor/AGC/Compressor/Limiter/NRSC \$1,800.00

Inovonics WebCaster



The Inovonics WebCaster provides optimum audio preprocessing for Internet "streaming audio." AGC, 3-band compression, EQ, limiting and low-pass filtering tailor full range program sources for the restricted bandwidth of Web audio.

WebCaster \$1,850.00

Inovonics David-II FM Processor/Generator



The Inovonics David-II is an integrated FM-Stereo processor/generator. It features digital synthesis of the composite multiplex signal for best separation and stable operation and internal combining for SCA or RDS subcarriers. Feedforward Pulse Width Modulation (PWM) audio processing imparts loudness and fullness to the program signal with negligible artifacts and without sacrificing brilliance. A unique "bass-enhance" feature optionally suppresses subaudible program components while augmenting legitimate "bottom-end".

716-00 David-II FM Processor/Generator \$2,000.00

Inovonics 708 Digital-Synthesis FM Stereo Generator



The Inovonics 708 Digital-Synthesis FM Stereo Generator includes accurate front-panel metering, adjustable pre-pilot Composite Processing, and internal combining for RDS and SCA subcarriers. New digital synthesis techniques and linear-phase filtering ensure outstanding performance, and a clean output spectrum protects low-injection digital and analog subcarriers. If your fundamental need is for a simple, yet fully-featured "basic" FM Stereo Generator, the 708 deserves your consideration. 1U

708-00 \$1,530.00

Modulation Science CP-803 Composite Processor



Modulation Sciences' CP-803 Composite Processor keeps your FM station loud, clean and legal. Use it with any combination of conventional audio processing to provide up to 6dB of additional loudness.

CP-803 Composite Processor \$1,495.00

Modulation Sciences MYB-2

StereoMaxx Stereo Expansion Processor

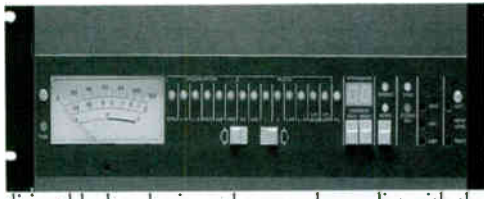


With the Modulation Sciences StereoMaxx Stereo Expansion Processor in your air chain, your station will sound punchier and livelier. Stereo actually sounds wider than the speakers. Music takes on a bigger, deeper, dynamic quality that's especially apparent on car stereos, portables and walk radios. Limiters, clippers or other dynamic processors don't affect StereoMaxx adversely because it operates in the spatial domain, not the amplitude domain.

MYB-2 \$2,889.00

Modulation Sciences STV-784

TV Encoder & Baseband Stereo Generator



The Modulation Sciences TV encoder and baseband stereo generator provides excellent stereo separation and great performance specifications. It accepts composite video for unconditional lock to horizontal sync and complies with the BTSC standards. TSG includes operational monitoring and integral television audio processor with gating control and interleave protection circuit specifically designed for intricate multi-channel television sound requirements.

STV-784WB .. TSG, Stereo TV generator w/audio processor & balanced outputs \$13,100.00
STV-784NA ... TSG, Stereo TV generator without audio processor \$9,875.00
STV-784AO ... TSG, Audio processor for STV 784 only \$3,125.00
CLD-2503B ... Balanced Composite Line Receiver for STV-784WB \$900.00

NiCOM POSEIDON Broadcast Digital Audio Processor



The NiCOM Poseidon is a 5 band digital processor with 30 pre-programmed equalization curves, offering 10 additional equalization curves that can be personalized. The personalized equalization curves can be easily saved and recalled. Each editable parameter is user friendly, allowing even inexperienced technicians to operate sound changes. Poseidon is totally remote controllable through serial ports directly by PC or via satellite. Poseidon features two independent serial ports uncoupled by optoisolators. This assures maximum immunity from other equipment noise. Digital input is optional. Standard features include: stereo enhancer, digital stereo generator MPX and digital modulator RDS.

Poseidon Broadcast Digital Audio Processor \$3,790.00

Omnia.fm Digital Audio Processor

The original Omnia.fm has become the world's standard for audio processing power and flexibility. Omnia.fm is an all digital FM audio processor using 48kHz sampling with four bands of AGC and limiting. Proven DSP algorithms produce loud, crystal-clear audio that's free of digital aliasing artifacts. Omnia.fm features include: a user-friendly LCD-screen interface with expert and basic controls • Wideband AGC • Four band, phase-linear, dynamically flat time-aligned crossover • Multiband AGC • Four-band dynamic peak limiter • Non-aliasing, distortion-controlled final limiter • Digital stereo generator with Precision Digital Dynamics clipper and composite filter • Thunder Boost bass EQ with up to 12dB of bass boost • Two PCM/CIA slots for easy PC-card setting storage, software upgrades and

included modem card • Remote control via RS-232 or modem with included Windows communications software • Standard analog and AES/EBU I/O • DAB ready. Omnia.fm: 3U, 32lbs.



Omnia.fm	#4500-1000	\$ 9,860.00
Omnia-6fm	#4700-1000	\$10,900.00
Omnia.fm.SPAC.EFX	#4503-2000	\$11,560.00
Omnia.fm.HOT	#4503-1000	\$12,760.00
Omnia.fm.HOT.SPAC.EFX	#4503-3000	\$13,760.00
Omnia.fm.VERIS	#4500-4000	\$11,560.00
Omnia.fm.VERIS.SPAC.EFX	#4503-4000	\$12,760.00
Omnia.sg	#4600-1000 Stereo Generator	\$2,321.00



Omnia.6



It's no secret that Omnia is the processor of choice for leading broadcasters in the world's top markets. In fact, 5 of the 6 most listened-to radio stations in the U.S. use Omnia. And once again, Omnia has set new standards of excellence with the Omnia-6fm Digital Audio Processor.

The Omnia-6fm is the audio processor for FM broadcasters who demand the ultimate in loudness and audio purity. Omnia-6fm dramatically increases the processing power available to broadcasters, providing 96 kHz sampling with 24-bit resolution, five bands of AGC and six bands of limiting. The result is clean, clear digital audio that's also the ultimate in competitive loudness — with never a hint of digital aliasing.

Omnia-6fm features include: A unique plug-in software architecture that provides the flexibility to precisely sculpt your station's signature sound • two intelligent, friendly full-color displays for easy set-up and intuitive operations • Selectable "split-channel" processing mode • Wideband and multi-band AGC • Six-band dynamic peak limiter •

Fully adjustable crossover network • Integrated selectable composite and Predictive Analysis clippers • All-digital stereo generator • Selectable phase rotator • Two PCM/CIA slots to store, retrieve and share custom settings • Remote control access via modem, RS-232 or TCP/IP and included Windows® communication software • User configurable Bass Management EQ • Selectable Space-EFX Stereo Enhancement • Composite high-pass filter • Standard AES/EBU and analog I/O.

Like all Omnia processors, Omnia-6fm is DAB ready, compatible with all Eureka-147 transmissions and current IBOC proposals, and is easily software upgradeable for compliance with future standards. Omnia-6fm: 3U, 32lbs.



Omnia Software Plug-In Modules allow you to further tailor the power of your Omnia.fm. The Omnia.fm.HOT plug-in has a unique distributed

multiband architecture combined with special limiter algorithms and optimized FM pre-emphasis that makes your audio sound full, rich and extremely "fat". All the detail and clarity of the music is retained, without

any of the artifacts normally associated with aggressive processing. It's clean, loud and in-your-face — perfect for Rock, CHR, Urban, Dance and Rap formats.

The Omnia.fm.VERIS Plug-In Module is designed for Classical, Fine Arts and Jazz programming. The VERIS Plug-In actually improves the sonic quality of wide dynamic range material using an algorithm that preserves the natural tonal quality of recorded material, while improving the overall on-air presence. VERIS does away with clipping altogether, instead maintaining precise peak control using Omnia's pioneering Distributed Look-Ahead Limiter, which predicts when peaks will occur and reduces gain at precisely the right moment to prevent overmodulation.

The Omnia.fm.SPAC.EFX Plug-In Module improves the stereo sound field, but does it without the annoying side effects normally found in lesser stereo enhancement tools. With Space-EFX, there's never a "hole" in center-stage, or an exaggerated stereo image. But your listeners will notice a "fuller" mix, with more up-front vocals and more detail in the music. The Space-EFX plug-in is available by itself, or along companions with the HOT or Veris Plug-In Modules.



Omnia-3

The Omnia-3 all-digital audio processor offers the clarity, punch and power of the original Omnia — at an amazingly affordable price. There's an Omnia-3 to suit every need, whether you broadcast on

FM, AM or the Internet. And each Omnia-3 model includes standard features like: 48kHz sampling • multi-band processing • digital audio inputs and outputs • integrated composite clipper • a removable PC card that simplifies software changes. Omnia.3: 2U, 32lbs.

The Omnia-3am includes: NRSC low pass filtering • selectable narrow-band filters for News/Talk formats • an EQ adjustment specifically for plate modulated transmitters • daypart automation.

The Omnia-3net has algorithms designed to optimize bit-reduced streaming audio.

All Omnia-3 processors include analog and AES/EBU I/O standard, and are DAB-ready. Remote control is available with an optional PCM/CIA modem card and Windows(r)-based software.

The Omnia-3fm also includes an all-digital stereo generator and daypart automation.

Omnia-3fm	#4300-1000	\$3,580.00
Omnia-3net	#4300-2000	\$3,580.00
Omnia-3am	#4300-3000	\$3,580.00

Orban Optimod 8200 Digital FM Audio Processor



The Orban Optimod 8200/U is a true digital FM Audio Processor. The audio and all control functions are digital. It's fully digital audio processing improves the quality and clarity of the successful "Optimod Sound" while adding changeable processing structures, program-

mability, expandability and PC interface capability for control from your studio, home or car. Orban's RAM-based Digital Hadamard Transform Baseband Encoder™ produces an extremely well-controlled spectrum, with indiscernibly-low noise and distortion and outstanding separation. 4U & 41lbs.

8200	As above w/multi-band processing	\$9,250.00
8200D/SRC ...	Digital I/O card, w/sample rate converter	\$1,450.00
CIT25	Composite Isolation Transformer (eliminates ground loops in longer composite cable runs)	\$250.00

Orban Optimod-FM 8200ST

Studio chassis for Optimod-FM 8200



The Orban Optimod-FM 8200ST is installed before your STL at the transmitter to protect it from peak and high frequency overload. The 8200ST also controls average levels on the link to maximize its dynamic range, translating to improved signal quality at the receiver. 1U & 12lbs.

8200ST/U	Studio chassis for Optimod-FM 8200	\$1,400.00
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Orban 8218 Stereo Digital Encoder/Generator w/Limiter



The Orban 8218 perfectly complements the 8200 in an all-digital transmission system. All digital encoding accepts either analog or AES/EBU digital inputs. The built-in patented, peak-overshoot limiter controls peak overshoots caused by data compression or phase non-linearities in the transmission system between studio and transmitter. It also allows automatic or remote controlled switching of pre-emphasis and/or J.17 (NICAM) de-emphasis. It is equipped with electronically balanced inputs for analog (XLR), transformer-balanced inputs for AES/EBU digital (XLR), a subcarrier input (BNC), two floating stereo encoder composite outputs (BNC), a remote interface (DB25) and switchable 50µs or 75µs pre-emphasis. 1U & 13lbs.

8218	Stereo Digital Encoder/Generator w/Limiter	\$1,975.00
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Orban 275A Automatic Stereo Synthesizer



The Orban 275A is designed to be placed permanently in-line to automatically generate stereo from one mono channel and allow true stereo to pass through unhindered. The 275A will noiselessly cross-fade between synthesized and true stereo material. For remote operation the optional 275A/RC remote panel duplicates all the front panel controls. 1U & 12lbs.

275A	Automatic Stereo Synthesizer	\$2,400.00
275A/RC	Remote panel, 1U & 4lbs.	\$275.00

Orban Optimod 9100B2 Stereo AM Analog Processor



The Orban Optimod 9100B2 is an analog audio processing system for AM broadcast C-QUAM stereo-LW or MW. It provides you with automatic gain control to ride levels, high-frequency boost that compensates for the roll-off in receivers (giving you a brighter sound), a six-band limiter with distortion-canceling clipper for a very loud and clean sound and switchable low-pass filters (NRSC or CCIR/EBU standard). It also provides compensation for the LF tilt and HF overshoot that cause over-modulation in less-than-perfect transmitters and antennas. The result is noticeably more loudness. 4U & 34lbs.

9100B2/U10	Stereo	\$6,650.00
8200ST/U	Studio chassis for 9100B	\$1,400.00
MRF023	AM monitor roll-off filter	\$95.00
RET043A	Upgrades mono 9100A to stereo	\$2,000.00
RET1043B	Up-grades mono 9100B to stereo	\$1,900.00

Orban Optimod 9200 Digital Programmable Processor



Orban Optimod 9200 is a completely redesigned, 100% digital, fully program-

mable processor offering conventional remote control or Windows-based PC (386 4Mb RAM minimum) control. The 9200U has analog I/O's, and can be upgraded to include 20-bit AES digital I/O with automatic sample rate selection for 32, 44.1 or 48kHz. The 9200 comes with eight factory presets (can't be erased) and eight user presets (stored in non-volatile memory). Features include: Gated AGC keeps a consistent level into the multi-band compressor and limiter and can be defeated in software (defeat when AGC is applied at the studio). • Receiver HF EQ has 21 selectable curve shapes, amount of ultimate boost adjustable 0-22dB, plus NRSC-standard modified 75µs pre-emphasis. • Multi-band Compression and Limiting: Five bands. • Absolute Peak Control: Controls peak output with less than 2% overshoot under all processing conditions. • LESS-MORE Control: One knob to adjust the amount of processing without having to understand how the processing controls function. • FULL Control: Permits individual adjustment of processing controls: AGC on/off, AGC Drive, AGC Release, Gate Threshold, Bass Coupling, Multiband Drive, Multiband Release, Multiband Clip, Downward Expander Threshold, HF Clipping. • EXPERT Control: Permits fine-tuning adjustments of more advanced parameters that affect spectral balance: Band 1-5 input drive, Band 1-5 output mix, final clip drive. • EQ Control: "Basic EQ" allows adjustment of high frequency receiver equalization, and relative spectral balance by gain control of low and mid-bands. "Expert EQ" adds two bands of parametric EQ (low and mid-frequencies). 2U & 19lbs.

9200/U	Analog In	\$4,250.00
9200/UD	Digital and Analog In	\$4,650.00
9200/DIO	Digital Upgrade	\$650.00

Orban 2200 Digital Optimod FM



The Orban 2200 has all the features of the 8100A analog Optimod FM: two-band processing, analog inputs and stereo composite output. Other features include: AGC, Bass EQ, and HF enhancing • Protection limiter • Analog outputs • Factory presets • User-programmable presets • Built-in tone generator • bypass switch • Remote switching of presets • True digital DSP processing and stereo encoding (stereo generator) • and is easy to install. 1U & 17lbs.

2200	Note: cannot be field or factory upgraded to the 2200D	\$3,950.00
2200D	As above w/AES/EBU digital inputs & outputs	\$4,250.00

Audio Processing • Air

Orban Optimod 8400 Digital Optimod FM



The Orban 8400 provides numerous important advances over the digital signal processing in Orban's popular 8200. By devoting over five times the DSP processing power to the problem, the 8400 reduces bass distortion, opens up high frequency response, and prevents audible clipping distortion on difficult program material. Added stereo enhancement, high frequency enhancement, and composite peak control complement the basic processing improvements, together providing the most powerful and effective on-air FM processing system that Orban has ever created.

8400 \$10,700.00

Orban Optimod 6200 DAB, DTV, and Webcasting



The Orban Optimod 6200 offers digital two-band or five-band processing and a transparent "look-ahead" limiter for absolute protection against digital clipping. Features include LESS/MORE control; user-defined presets; remote control and computer control via modem. Variable bandwidth capabilities let you match the 6200 to your needs from 4kHz to 20kHz full fidelity. Input sample rates automatically selected: 32, 44.1, 48kHz. Inputs: AES/EBU (20-bit resolution). AES/EBU sync, and electronically balanced stereo analog (XLR). Output sample rates, software selectable: 32, 44.1, 48kHz. Outputs: AES/EBU and analog stereo monitor (XLR). 2U & 13.5lbs.

6200 for DAB, DTV, and Webcasting \$5,950.00

Orban 222A Spatial Enhancer



The Orban 222A augments your stations spatial image to give you a more listenable sound. It expands the stereo sound stage without adding harmonic distortion or unnatural coloration. 1U & 10lbs.

222A Spatial Enhancer \$975.00

QEI 710A Digital Stereo Generator



The QEI 710A Digital Stereo Generator is a true 24-bit numeric

digital signal processing system. It is completely digital from the input oversampling, finite-impulse response filters to the proprietary second generation digital composite firmware and 18-bit DAC. It is designed for ease-of-operation with familiar control functions and remote stereo/mono mode control. Includes Q-Chain digital and analog inputs and outputs. The 710A can also be used as a digital sampling device: the digital signal can then be sent to external processing via Q-Chain and back again to the 710A for creation of the composite signal in the digital domain.

710A Digital Stereo Generator with AES/EBU digital input, 1U \$2,595.00

sbs MaxIm Processor & MPX5 Stereo Generator



See Page 174 for details.

MAXIM \$1,399.00
MPX5 \$1,199.00
MPX5/OS \$1,299.00

t.c. electronics DBMAX Digital Broadcast Maximizer



The t.c. electronics DBMAX will maximize your audio footprint

and get the impact you need. As a transmission processor you get: transparent 5 band, on-air, dynamics processing • presets available for DAB, FM and AM transmission are all preprogrammed • simultaneous AGC, compressor, limiter & soft clipper • expansion of the broadcast coverage area. As a Radio, TV & Film Post Optimizer you get: the ultimate mastering processor • 5 band EQ, dynamic filtering of spot/trouble frequencies, 0 or 90 degree mono summing, MS-decoder, etc. • AES/EBU I/O and sync-input as well as 24-bit A/D-D/A converters • full 24kHz audio bandwidth at 48kHz sampling frequency.

DBMAX Five Band Digital Broadcast Maximizer \$3,995.00

See more Generators on Pages 158-162....

Audio Processing • Compressor/Limiter

Aphex Compellor 320A



Aphex 622



Aphex Dominator 722



Alexis Nano Compressor



Alexis 6680



ART 312



ART 250



Expander/Gate/Tricker

Aphex 622 Dual channel w/side chain filter, 1U, XLR \$795.00

Peak Limiter

Aphex 720 Dominator II, multi-band, stereo, 1U, XLR \$1,350.00

Symetrix 501 Mono Peak/RMS com/limiter, 1U, XLR \$429.00

Symetrix 501-01 As 501 w/transformer balanced output stage \$469.00

Mono Compressor/Limiter

Aphex 661 Tube Expressor, 1U, TRS, Auto or Manual \$749.00

Aphex 323A Compellor/Aural Exciter, multi-band, 1U, XLR, Broadband \$949.00

dbx 160A 1U, TRS & XLR \$459.95

dbx 576 Mic Pre/Tube Compressor, 3U, XLR & TRS \$999.95

RDL ST-CL1 See Pages 50&51, Stick On, TB \$147.00

RDL STGCA1 See Pages 50&51, Gain control amp, Stick On, TB \$127.00

RDL STGCA2 See Pages 50&51, Fast Gain Control amp, Stick On, TB \$127.00

Symetrix 301 1U-1/2RW, XLR & Euroblock \$249.00

Audio Processing • Compressor/Limiter

Multi-Dynamic Processors

Aphex 108	2-channel Easyrider™ Auto compressor, 1U, TRS	\$299.00
Behringer MDX4400	4-channel Compressor/Limiter, 1U, XLR & TRS	\$229.99
Rane DC-24	w/Gate & fourth-order active crossover, 1U, XLR & TRS	\$599.00
Symetrix 421M	Mono, AGC leveler, limiter, w/speech curve filters, 1U, TRS & XLR	\$619.00
Symetrix 422	Stereo, AGC leveler, 1U, XLR & TRS	\$619.00
t.c. electronics DBMAX	1U, RCA & XLR	\$3,995.00
t.c. electronics Finalizer	1U, RCA & XLR	\$1,599.00
t.c. electronics Final96K	1U, RCA & XLR	\$2,995.00

NoiseGates

Aphex 105	4-channel, Logic Assisted Gate, 1U, TRS	\$449.00
Behringer XR2000	2-channel, 1U, & XLR	\$249.00

Dual Compressor/Expander

dbx 266XL	w/Gate, 1U, TRS & XLR	\$189.95
Klark Teknik DN510	2-channel, 1U, XLR (transformer balanced outputs \$1567)	\$1,395.00
Klark Teknik DN514	4-channel, 1U, XLR (transformer balanced outputs \$1559)	\$1,215.00
Symetrix565E	1U, TRS & XLR	\$399.00
Valley 433	Dynamite 3, w/gate, 1U, TRS	\$685.00

Dual Compressor/Limiter

Alesis NanoComp	w/RMS Peak, 1U-1/3RW, TRS	\$119.00
Alesis 3630	w/Noise Gate & Peak RMS detection, 1U, TS	\$199.00
Aphex 320A	Compellor, 1U, XLR	\$1,350.00
ART 212	2U, TRS & XLR	\$679.00
ART 256	1U, TRS & XLR	\$369.00
Ashly CLX-52	Stereo Dual Peak, 1U, TRS	\$539.00
Behringer MDX1400	w/Expander/Enhancer, 1U, Jack & XLR	\$179.00
Behringer MDX2200	w/Expander, 1U, Jack & XLR	\$219.00
dbx 166XL	w/Gate, 1U, TRS & XLR	\$329.95
dbx 566	Tube Compressor, 2U, XLR & TRS	\$999.95
dbx 1066	w/Gate & side chain insert, 1U, TRS & XLR	\$549.95
dbx 1046	4-channel compressor for use as 2 independent st. comp., 1U, XLR & TRS	\$649.95
DODSR866	w/Gate, side chain insert, 1/4" & RCA I/O	\$279.95
Furman LC6	1U, TS	\$439.00
Furman LC6B	1U, TS & XLR	\$507.00
JoeMeek SC2	2U, TRS & XLR	\$1,999.99
JoeMeek SC4	2U, TRS & XLR	\$1,999.99
JoeMeek C2	1U-1/2RW, TRS	\$399.99
JoeMeek SC2.2	2U, XLR	\$799.99
Klark Teknik DN504	Quad Comp/limiter, 1U, XLR (transformer bal. output)\$1597)	\$1,495.00
Rane MC22	1U, XLR & TRS	\$299.00
sbs Lim-IT	Woodwork Mount (Opt. 1U Rack Kit \$35), XLR	\$269.00
Yamaha GC2020C	Dual-mono selectable 1U, XLR & TRS	\$469.00

dbx 166A



dbx 166XL



dbx 266XL



dbx 1046



dbx 1066



Furman LC-6



Radin Design Labs ST-CL1 & ST-CA1



Rane DC24



Rane MC22



dbx Lim-IT/R shown with optional rack mount



Symetrix 301



Symetrix 422



Symetrix 501



Symetrix 565E



Yamaha GC2020C



INPUT/OUTPUT CONNECTIONS

- TRS = 1/4" Tip-Ring-Sleeve
- TS = 1/4" Tip-Sleeve
- BS = Barrier Strip
- XLR = 3 Pin XLR



Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com

Audio Processing • Delays

Eventide BD-500 Digital Broadcast Delay



The Eventide BD-500 Digital Broadcast Delay comes standard with 8.5 seconds of stereo delay, and additional delay can be added in the field. The user divides the total available delay time into not one or even two, but several discrete segments (the user decides how many). Each time the DUMP button is pressed only the one segment is dumped. You still have delay protection right away. A sneeze button momentarily "edits" audio entering the delay allowing the host to sneeze or make a comment without being heard on air and without dead air. The unit shows an exact digital read-out of delay time and has a "quick read" bargraph which instantly confirms "you're safe" at a glance. It comes with analog XLR type I/O or optional AES/EBU I/O. All front panel switches (except configure) can be remoted (both RS-232 and dry contacts are provided). Status indicators can be remoted as well. 1U

BD-500-000	Stereo Digital Broadcast Delay	\$3,395.00
BD-500-100	with AES/EBU I/O	\$4,690.00

Eventide BD941/BD942 Delays



The Eventide BD941/BD942 delays offer cost-effective obscenity protection. Both feature a delete function, 5-20KHz audio frequency, 16-bit resolution, a 44.1kHz sampling rate, and balanced analog I/O's.

BD941-6	Mono, 6 seconds fixed delay	\$1,795.00
BD941-12	Mono, 12 seconds fixed delay	\$2,195.00
BD942-3	Stereo, 3 seconds fixed delay	\$1,995.00
BD942-6	Stereo, 6 seconds fixed delay	\$2,395.00

Eventide BD1020 Digital Video Delay



The Eventide BD1020 Digital Video Delay is available in a variety of memory configurations, for delay times ranging from 1.1 to 20 seconds. Additional memory for units shipped with less than 20 can be added in the field. BD1020 features include: integrated video and stereo audio delay • NTSC, PAL and SECAM compatible • two independently adjustable video delay outputs • headphone output allow simultaneous monitoring live and delayed audio for precise muting • LCD readout and dynamically-labeled softkeys for easy control • remote mute switch • and RS-422 remote control. Minimum system 8-bit video, 16MB memory, maximum system 10-bit video, 320MB memory, 2U.

BD1020		\$13,850.00 to \$41,970.00
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Prime Image CASH

Create Additional Commercial Time



With Prime Image CASH, radio broadcasters can create additional commercial time which creates additional revenue. CASH doesn't reduce program content. It allows broadcasters to add commercial time without artifacts, affecting pitch or creating a chipmunk effect. Some of the features include: real-time on-air operation • creates up to an extra 4 minutes of commercial time in 1 hour of program time • 48kHz sampling at 16-bits with no data compression • and is available in mono or stereo. The audio connections are balanced or unbalanced XLR I/Os. 1U & 20lbs.

CASH		\$12,000.00
RA	Rackmount Remote	\$1,250.00

Prime Image Time Machine

Reduces Program Time



The Prime Image Time Machine is a technological breakthrough product, which reduces program time, to create

commercial time, and requires no data compression. A maximum of 30 seconds of video and two channels for time reduction audio is available. The Time Machine features include: edit down long programs • emergency news break with no program loss • adjustable time reduction • fully digital and solid state. The time machine has BNC video composite, 4 pin Y/C (7 pin available) and Y/U/V or Y/R/B 6 pin mini DIN to 3 BNC I/Os. 3U & 42lbs.

TM	Main Frame TV NTSC, PAL or PAL-M	\$10,900.00
TRS	Each second of "Time Reduction"	add \$2,750.00

Video plus 2 channels of audio is available in 10, 20 or 30 second intervals.

Rane AD 22d digital Audio Delay



The Rane AD 22d Digital Audio Delay is a fully balanced, two input, two output alignment delay providing a delay range of 0.011 to 327.68 milliseconds on each output. The delay of each output is independently adjustable in 10 microsecond or 1 millisecond increments. Features: 1-Bit Dolby™ Time Link Conversion • Terminal strip inputs and outputs • Independent remote memory recall interface on rear • Two EPROM memories per channel • Sensitivity control • Signal present and clip indicators • Front panel lockout switch on rear • Delay display in mSEC, feet or meters • 5 digit LED display • Fail-safe bypass for each channel • 1U.

AD 22d	Digital Audio Delay w/Balanced XLR I/O connectors	\$849.00
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Audio Processing • Delays

Rane AVA 22d Audio/Video Alignment Delay

Field & Frame Increments



The Rane AVA 22d Audio/Video Alignment Delay is a fully balanced two input, two output alignment delay providing a range of 0.0 to 9.5 NTSC frames (8.0 PAL/SECAM frames) on each output. The delay of each output is independently adjustable in field (half-frame) increments. Features: 1-bit Dolby™ Time Link Conversion • front panel lockout switch on rear • independent remote memory recall interface on rear • active balanced XLR inputs & outputs • two EPROM memories per channel, no batteries • fail-safe bypass for each channel • 1U.

AVA 22d Audio/Video Alignment Delay \$899.00

Symetrix 402 Dual Output Delay



The Symetrix 402 Dual Output Delay is a 1 input, 2 output digital audio room delay intended for acoustical alignment of distant speaker systems. The 402 allows you to delay the remote speakers to match the time it takes for the signal coming from the main speakers to reach the listener positioned near the remote speakers. Features: 19-bit A/D, 18-bit D/A's for >100dB dynamic range • Two independently adjustable outputs • Simple user interface • Delay setting stored in non-volatile memory, no battery to replace • Automatic hard wire bypass in case of power loss • Front panel lockout • Barrier terminal, XLR, and 1/4" phone connectors.

402 Dual Output Delay \$769.00

Symetrix 610 Broadcast Audio Delay



The Symetrix 610 Broadcast Audio Delay can unobtrusively "stretch out" the program until 7.5 seconds of 15kHz bandwidth stereo audio is stored in memory. Once the "DUMP profanity" button is pressed the 610 automatically begins to stretch the program audio again until the full 7.5 second delay is attained. It can be set up so that only half of the 7.5 second memory is deleted the first time the button is pushed, thereby maintaining a 3.75 second reserve. This allows the host to bring another caller on air right away without having to wait for the memory to build up from scratch. A "COUGH" button allows the host to make impromptu interruptions of the program for up to 7.5 seconds while keeping the audience unaware of the break. The 610 has remote control of all functions and active balanced XLR I/Os. 1U



610 Broadcast Audio Delay \$2,695.00

RC-610 Broadcast Delay Remote Control \$199.00

t.c. Electronic D22 Digital Broadcast Delay



The t.c. electronic D22 Digital Broadcast Delay is ideal for on-air situations (Satellite Downlink Compensation) and TV stations with a need to synchronize picture and sound (Lip sync). It is a dedicated two in/two out digital delay that provides seamless "on the fly" delay-updating without audio clicks, pitch changes or other unwanted sonic artifacts. The resolution of the delay can be displayed in frames, sub-frames as well as milliseconds and sub-milliseconds, allocated individually to each of the two delay time controls. The Tap control features a Preview as well as an Instant mode. The Preview Tap enables preview of the tapped delay time before it is inserted in the actual Audio chain, while the Instant Tap inserts the tapped delay time immediately. The User Interface also has a "Set and Forget" lock function for a more fixed environment. The D22 can be remote controlled via RS-485 (Input only) for recall and GPI which allows external control of Tap Tempo as well as Master Fader output. The D22 is equipped with 24-bit AES/EBU and S/PDIF digital interface, 24-bit A/D-D/A converters and Wordclock BNC 75 .

D22 Digital Broadcast Delay \$1,999.00

Yamaha D5000 Digital Delay



The Yamaha D5000 Professional Digital Delay's audio quality is achieved through the use of 20-bit A/D-D/A converters and 50kHz sampling, overall circuit design, component selection and layout. It can operate in the dual mode with three independently programmable delays per channel or in the single mode with six independently programmable delays. In the dual mode the D5000 can be used either as a stereo-in/stereo-out or mono-in/stereo-out delay system. The A and B channels also feature independently programmable output levels and low pass filters. The D5000 display lets you delay in milliseconds, distance, musical tempo, or SMPTE frames (30,35, or 24 frame modes). Yamaha has put in up to 100 complete delay setups - dual or single mode which can be stored in the internal RAM memory for recall as needed. The rear panel offers both balanced XLR & 1/4" jack I/Os as well as a footswitch trigger jack that compliments the trigger switch on the front panel. The MIDI interface provides: MIDI IN and switchable MIDI OUT THRU. 1U & 10.5lbs.

D5000 Digital Delay \$1,499.00



Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Broadcasters General Store phone 352-622-7700

World Radio History

Alesis MidiVerb⁴ Dual Channel Parallel Processor



The Alesis MidiVerb⁴ is perfect for projects that require a fully programmable reverb and multi-effect processor. The MidiVerb 4 provides MIDI controller routing and an assignable footswitch input, offering excellent creative effects control during live performance. Features include: 256 programs (128 preset/128 user storable) • Auto Level Sensing™ automatically sets optimum input level • easy user interface with built-in help pages • 18-bit digital conversion (24-bit internal processing) with 48kHz sample rate • unbalanced 1/4" stereo I/O • 1U & 4.5lbs.

MidiVerb 4 Dual Channel Parallel Processor \$329.00

Alesis NanoVerb™ 8-Bit Digital Effects Processor



The Alesis NanoVerb™ gives you sixteen of Alesis' best preset effects algorithms in a compact, easy-to-use and affordable package. Features include:

16 programs • stereo operation • one adjustable parameter in each program w/ front panel control • 24-bit internal processor • 18-bit A/D-D/A converters • unbalanced 1/4" stereo I/O's. 1/3RU & 1.25lbs.

NanoVerb 18-Bit Digital Effects Processor \$135.00

Alesis MicroVerb⁴

Preset/Programmable 18-bit Signal Processor



The Alesis MicroVerb⁴ is designed to provide a wide variety of great-sounding, easy-to-use effects. To customize your programs, two front panel knobs allow for quick user-storable edits. Features include: 200 programs (100 presets/100 user-storable) • multi-effect and dual-send configurations • MIDI modulation and program changes • 24-bit internal processor • 18-bit A/D-D/A converters • unbalanced 1/4" stereo I/O's. 1U & 2.6lbs.

MicroVerb Preset/Programmable 18-bit Signal Processor \$249.00

ART DMV-Pro Stereo Effects Processor



The ART DMV-Pro is a Dual, True-Stereo effects processor. The DMV-Pro offers all of the parameters: editing, MIDI capability and programmability of two full-featured effects processors. Independent editing interfaces give you immediate access to both stereo processors and its two LCDs, which provide clear, visual feedback to each channel's parameters. Specialized 24-bit processing, combined with ART's proprietary Dynamic Engine Allocation software give you control over a multitude of stunning stereo effects. 1U & 6lbs.

DMV-Pro Stereo Effects Processor \$525.00

BOSS (Roland) VT-1B

Altering & Effecting Voice & Other Audio Signal



The BOSS (Roland) VT-1B is a unique device designed for altering and effecting the human voice or any other audio signal. It can provide everything from a slight detuning for voice "thickening", to a full ± octave pitch shift, enabling one person to sing a duet with himself. Unlike tape-speed adjustments or a conventional pitch shifter, the VT-1B affords separate control of pitch and format so the user's voice can be altered without the "chip-munk" effect. There is also a feature specifically designed to produce "robot-like" talking. Four preset memory locations and four user memory locations.

VT-1B (and a basic digital reverb) \$395.00

DigiTech Quad4 Multi-effects Processor



The DigiTech Quad4 has four multi-effect processors in one unit. It features four completely independent inputs and outputs that give you the power of four independent mono processors or two true stereo processors. Check out the Quad4 with its simple user interface, large custom display and potent S-DISCII technology. The Quad4 is capable of eliminating the need for multiple, expensive, single purpose processing units. Other features: full MIDI implementation • full bandwidth effects • 20-bit A/D-D/A converter with 1/4" unbalanced inputs(4) & outputs(4). 1U & 7.5lbs.

Quad4 Multi-effects Processor \$479.95

DigiTech Studio Series S100 & S200

Multi-effects Processors



The DigiTech Studio Series S100 multi-effects processor has a dual engine processor that allows you to use any one of seven different effects-routing configurations. The S100 is also MIDI-in and Footswitch controllable, so program changes can be done on-the-fly. The 20-bit A/D-D/A conversion helps keep the S100 ultra quiet. This unit comes with 100 factory presets and 100 user sets. Stereo 1/4", TS, unbalanced input; 1/4", TRS balanced output. 1U & 4.2lbs.

The S200 has the same features as the S100, plus an LCD screen, internal power supply, 4 parameter MIDI control and a preview effects sample button. Stereo 1/4", TS, unbalanced input; 1/4", TRS balanced output. 1U & 4.2lbs.

S100 20-Bit, Dual Engine, True Stereo \$219.95

S200 20-Bit, Custom Display, Dual Engine, Stereo \$339.95



Broadcasters General Store

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Audio Processing • Effects

Eventide H3000-B Ultra-Harmonizer



The Eventide H3000 is an entire production department in a single box!

This digital audio processor offers all the effects you need, without sacrificing any quality, convenience or effectiveness. The H3000 features 16 Algorithms, including TimeSqueeze®, Stutter and Patch Factory; 184 Factory Presets for spontaneous on-air use and a full complement of production-oriented reverbs, delays and digitally-generated sound effects. The Soft Keys give one-button access to key parameters, making programs quick and easy to use.

- H3000-D/SE ... Dynamic Studio Enhanced Ultra-Harmonizer w/3-D Presets .. \$2,695.00
- H3500-DFX/E Dynamic Ultra-Harmonizer w/95 second internal Sampler Board \$3,595.00
- HS395 95 second internal Sampler Board for H3000's \$995.00

Eventide DSP4000B & DSP4500

Ultra-Harmonizer



Eventide's DSP4000B Ultra-Harmonizer is based on the

powerful DSP4000, but it has a unique set of software programs created especially for radio, TV and post-production by sound designer Jay Rose. The DSP4000B offers Timesqueeze® stereo time-compression and expansion with higher quality than ever before. It's perfect for fast-paced "Morning Zoo" type radio shows. A six line graphic LCD screen lets you choose the effect you want in seconds. They're conveniently organized into logical groupings. Every effect features a wide variety of user-adjustable parameters, and the LCD screen leads you quickly through the process, explaining how the various parameters affect the sound. In addition to saving presets you create in the DSP4000B's internal memory, you can also store them on a removable PCM-CIA memory card for convenience, added capacity and protection for your unique sounds from use by others. The DSP4000B comes standard with balanced analog inputs and outputs, with audio bandwidth extending to 22kHz. Optional is a digital I/O module that provides 24-bit AES/EBU and S/PDIF I/O.

The Eventide DSP4500 comes standard with every program preset found in the DSP4000, GTR40000 and DSP4000B and then some. It's Alchemy 101, a brand new collection of 225 presets from Scott Gilfix. Alchemy 101 will be available to DSP4000 owners as a \$495 PC card. You get over 1000 program presets in all. The DSP4500 includes an 87-second internal sampler.

- DSP4000 w/Digital I/O & Memory Card \$3,995.00
- DSP4000B w/Custom Broadcast/Production Presets \$3,495.00
- DSP4500 w/Sampler, Digital I/O & Memory Card \$4,995.00
- HS487 87 second internal sampler board \$995.00
- HS4174 174 second internal sampler board \$1,495.00



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Lexicon MPX-500

True Stereo 24-bit Dual-Channel Processor



The Lexicon MPX-500 is a true stereo 24-bit dual-channel processor with balanced XLR & TRS 1/4" connectors. S/PDIF Digital I/O via coaxial RCA connector. Powered by Lexicon's proprietary Lexichip™, the MPX-500 has 240 presets with classic, true stereo reverb programs such as Ambience, Plate, Chamber and Inverse, as well as Tremolo, Rotary, Chorus, Flange, Pitch, Detune, 5.5 second Delay and Echo. Dual-channel processing gives you completely independent effects on the left and right channels.

- MPX-500 \$599.00

Lexicon MPX-100 Dual channel Processor



The Lexicon MPX-100 is a true stereo, dual-channel processor with 24-bit internal processing, 20-bit A/D-D/A and S/PDIF digital output and unbalanced analog RCA I/O's. It has 240 presets and 16 program versions. Features include: assign front panel bypass button as input mute or bypass • enable or disable learned patches • mute or bypass during program loads • wet or dry digital output • MIDI out or thru • enable or disable MIDI program change • enable or disable MIDI clock • global or program specific tempo • MIDI dumps for the current program, all 16 user programs or system mode setting. 1U & 2.2lbs.

- MPX-100 Dual channel Processor \$299.00

Lexicon MPX-1 Stereo Multieffects Processor



The Lexicon MPX-1 Multiple Processor FX technology™ stereo effects processor is a full strength reverb all the time with up to 5 effects at once. You can expect: a "goof proof" system for quickly fine tuning any program without having to enter an in-depth editing mode • visual feedback with on-board help guides • 56 pitch, chorus, EQ, modulation, delay and world class reverb effects • 200 presets with database sorting to let you find exactly what you want and more. Operating levels from -10dBv to +44dBu. Analog I/O has balanced XLR and TRS 1/4" connectors, a coaxial S/PDIF I/O. 1U & 6.2lbs.

- MPX-1 Stereo Multieffects Processor \$899.00

Lexicon PCM-91 & PCM-81 Digital Effects Processor



Lexicon's PCM-91 and PCM-81 have a unique, dual DSP platform which enables the PCM-91 the highest quality reverberation available while allowing the PCM-81 to combine reverb with powerful, flexible effects. Both the PCM-81 and PCM-91 allow RAM card storage of your presets and setups. In addition, the PCM-81 continues to accept plug-in cards designed for the PCM-80, allowing you to increase from 300 presets to nearly 800 while increasing the number of algorithms to more than 40. The PCM-91 includes 450 new presets, with 50 keyword search to easily locate your chosen preset. Both are equipped with AES/EBU digital audio I/O format, S/PDIF digital audio I/O, S/PDIF coaxial and AES/EBU XLR output that can be used simultaneously - doubling your digital audio output.

- PCM-81 Digital Effects Processor \$2,995.00
- PCM-91 Digital Reverberator for 2 channel or surround applications \$2,995.00
- Optional PC (PCM/CIA) cards for specialized industry effects programs.
- FX Card Post and Music \$199.00
- FX Card Dual, Pitch, Vocal, & Dual Reverb \$249.00

Audio Processing • Effects

Sony DPS-V55 Digital Signal Processor



The Sony DPS-V55 has a DSP engine backed with 45 easy, dial up algorithms. This digital signal processor also has:

20-bit A/D-D/A converters, large memory featuring 200 factory presets and 200 storable slots. Connectors are: MIDI I/O, 4 mono or 2 stereo unbalanced 1/4" I/Os with consumer or professional level controls. Effects such as reverbs, chorus, doppler, delay, reflection, limiter, ping pong, gate, stereo panner, de-esser and combinations. 2U & 9.6lbs.

DPS-V55 Digital Signal Processor \$600.00

t.c. electronic Wizard M3000

Studio Reverb Processor



The t.c. electronic Wizard M3000 studio reverb processor will modify the shape, size, decay and direction to create unparalleled realism - from the ultra-natural to the supernatural. Features include: dual engine processing • 250 factory preset algorithms • 200 user presets • intuitive user interface w/instant preset recall • soft compressor • advanced expander and dynamic EQ • de-esser • chorus/flanger • tremolo • phaser • pitch shift • 5 band parametric EQ • analog balanced I/O or digitally via AES/EBU, S/PDIF, ADAT or Toslink (all outputs can be used simultaneously). 1U & 5.2lbs.

M3000 Studio Reverb Processor \$2,495.00

t.c. electronic FIREWORX

Multieffect Studio Processor



The t.c. electronic FIREWORX multi-effect studio processor with work clock creates an infinite number of effects for any style of music or sound design with endless routing possibilities and more than eight internal and nine external modifiers. features 24-bit A/D-D/A converter, AES/EBU, S/PDIF and ADAT I/O's. 1U & 5.2lbs.

FIREWORX Multieffect Studio Processor \$2,195.00

Yamaha REV 100 Digital Reverberation Unit



The Yamaha REV 100 is basically a no-fuss signal processor - all you have to do is select one of its 99 preset effects and play. The three most critical parameters for all effect programs are adjustable via rotary panel controls - just rotate the appropriate controls until the sound is right. REV 100 effect categories include: reverb, true stereo reverb, gate reverb, delay, delay/reverb, and reverb/modulation. It has 16-bit A/D-D/A converters and a 44.1kHz sampling rate. Other important features include: advanced MIDI features • 1/4" TS I/Os • easy-to-read 2-digit LED display • and peak LEDs make it easy to set the optimum input level. 1U & 5.5lbs.

REV 100 Digital Reverberation Unit \$299.00

Yamaha REV500 Digital Reverberation Unit



Yamaha REV500 is a great sounding, yet affordable reverberation unit with DSP engine and 20-bit A/D-D/A converter. This true stereo processor with independent left and right channels has 100 user programs which are divided into four categories: Hall, Room, Plate and Special. It has snare and rim shot samples built-in so programs and edits can be auditioned from the front panel. Balanced XLR and TRS phone jack connections allow simple hook up to professional and semiprofessional gear. 1U & 7.7lbs.

REV500 Digital Reverberation Unit \$499.00

Yamaha PROR3 Digital Reverberation Unit



The Yamaha PROR3 is a 32-bit DSP, high performance, 20-bit linear A/D-D/A converter digital signal reverberator. This dual stereo reverberator has a MIDI interface, large 24 character x 2-line backlit LCD display, 99 presets and 99 user memory locations. It has XLR and 1/4" phone jacks and true stereo reverb processing available. In addition, 6 preset early reflection types and 4 user types can be created for customized early refraction precision. Three "patches" are provided: series echo to reverb, series reverb to echo and parallel echo with reverb. These programs combine the reverb sound with chorus, symphonic and flange type modulation respectively, making it easy to add a subtle touch of animation to the reverb sound or produce wild "jet reverb" effects. 2U & 12.1lbs.

PROR3 Digital Reverberation Unit \$1,299.00

Yamaha SPX-990 Multi-Effect Processor



The Yamaha SPX-990 is a true stereo-in stereo-out multi-effects processor that has a 3 band parametric EQ, compressor and harmonic driver, 100 user memory locations, optional plug-in memory card that stores up to 100 additional programs each, and 20-bit A/D-D/A converters. It has 36 main effects including reverb, delay, echo, pitch change, pan, freeze, modulation and a combination of the above. Connectors are balanced XLR I/O and unbalanced 1/4" I/O. 1U & 10.2lbs.

SPX-990 Multi-effect Processor \$1,179.00

Yamaha SPX-1000

Digital Multi-Effect Processor

Yamaha SPX-1000 is a fully equipped effects studio at your fingertips. Features include: totally natural reverberation • an echo room in which you can instantly change any room dimensions • fully programmable early reflection • a full range of modulation effects • freeze programs that let you replay sound snap-shots • multi-effect programs that combine up to 5 different, fully programmable effects • pitch change, compression, expansion, distortion, rotary panning and much more! The SPX-1000 has a 44.1kHz sampling frequency, MIDI implementation; A/D-D/A are 16-bit, Yamaha-format digital I/O and unbalanced 1/4" TS analog I/O connectors. 1U & 8.3lbs.



SPX-1000 Digital Multi-effect Processor \$1,829.00

Built on Tradition. Built for the Future. Built to Last.



OPTIMOD-FM 8400



OPTIMOD-FM 2200



OPTIMOD-DAB 6200



OPTIMOD 6200S



OPTIMOD-AM 9200

It's been a quarter of a century since Orban OPTIMOD audio processors were born. So you may wonder—What have we done for you lately? Glad you asked. Our answer is "plenty."

Orban carries on its tradition of leading-edge, innovative technology, responsive customer service, and of course, crystal-clear sound. It's no accident that we have more than 20 on-air digital processing patents.

Our stable of professionally engineered OPTIMODs are synonymous with world-class sound. And with reliability, consistency and listenability.

Now our legacy of top-quality audio processors rests in the next generation of digital products designed to grab and hold listeners.

OPTIMOD-FM 8400: The Smarter Processing Approach.

OPTIMOD-FM 2200: Big Sound. Little Price.

OPTIMOD-DAB 6200: Optimized for Digital Radio.

OPTIMOD 6200S: Webcasting with the OPTIMOD Sound.

OPTIMOD-AM 9200: Day or Night—The Peak of Perfection.

Combining Technology
and Innovation with Tradition.

orban

Make sure your audience hears you loud and clear with the *CRL Amigo Series Audio Processors*



Grab your listeners by their ears! Whether you're a radio or TV broadcaster, CRL's Amigo Series Audio Processors give you high-quality audio at very affordable prices — and gives your audience the loud, clear, consistent sound that will keep them listening to your station.

The Amigo FM Stereo Processor offers a complete array of high-quality FM processing features usually available only on much more expensive units, including a digital stereo encoder. Your audience will immediately notice the difference!

The Amigo AM Stereo/Mono Processor makes the most of your AM signal. It is the perfect processor for mono stations thinking of going stereo since the Amigo AM can drive two mono transmitters or a main stereo transmitter plus a mono standby.

The Amigo TV Mono Processor automatically monitors and adjusts audio levels, ensuring consistent loudness across diverse program material creating a clear, natural sound.

**Maximizing your sound
while minimizing your cost.
*CRL Amigo Series Processors***



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Fax: +1(602) 438-8227

E-mail: crl@crlsystems.com
Website: www.crlsystems.com

Aphex 104 Aural Exciter® Type C - Big Bottom



The Aphex 104 has two processing types to enhance both ends of the spectrum. The 104 has increased presence and clarity with switch-select for normal or high harmonics. Virtually noise free, the Big Bottom™ bass enhancer increases bass sustain, density and loudness. Operates at -10dBv or +4dBu with 1/4" TRS phone jack for I/O. 1U & 4lbs.

104 Aural Exciter® Type C - Big Bottom \$299.00

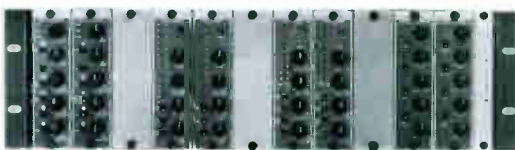
Aphex 250 Aural Exciter® Type III



The Aphex Type III is a fully professional Aural Exciter loaded with powerful processing features and improved circuitry. Features include: adjustable harmonics mixing • two modes of noise reduction • SPR™ Spectral Phase Refractor • servo balanced I/O on XLR type connectors • Aphex VCA 1001 • and null fill. It operates with I/O levels from +8dBu to -10dBm • balanced or unbalanced automatically • with all user settings externally accessed • RF filtered AC power input • direct relay bypass with remote control of bypass • solo function • and switches I.E.D are indicated. Noise and distortion are virtually eliminated in the Type III circuitry, while the new special features now make enhancement possible while actually erasing noise from noisy sources.

250 Aural Exciter® Type III \$995.00

Aphex 9000 Modular Processing System



The Aphex 9000 Modular Processing System is a space saving way to install some of the more popular Aphex products.

9000R 11 position, 3U unpowered (ships 30lbs. pkg. wt) \$379.00
 9000PS 9000 power supply, 2U Aphex modules only (ships 30lbs. pkg. wt) \$499.00
 9001PS same as 9000PS for added DBX® compatibility \$599.00
 9005PS 9000PS, 5 amp power supply, 3U, Aphex only \$699.00
 9251 Aural Exciter module, single channel, 2lbs. \$449.00
 9301A Compellor module, single channel, 2lbs. \$549.00
 9621 Logic assisted gate module, single channel, 2lbs. \$499.00
 9651 Expressor module, single channel, 2lbs. \$499.00
 9721 Dominator II, single channel, 2lbs. \$595.00
 9901A Parametric EQ, single channel, 2lbs. \$449.00
 9000BP Blank panel, single position, .5lbs. \$19.00

BBE 482 & 882 Phase Correction Algorithms



BBE 482 & 882 apply different phase correction algorithms to three separate frequency bands. The variable front panel control allows the user to adjust the amount of processing desired. BBE® is used to increase the clarity and intelligibility of program material and does not add any extra noise or harmonics to the sound.

482 Dual channels & controls, 1/4" and RCA unbalanced connectors, line level operation \$349.00
 882 Dual channels & controls, 1/4" and XLR balanced connectors, +4dBu level operation \$599.00

dbx 900 Series Modular Signal-Processing System

The dbx 900 Series is a modular signal-processing system that eliminates redundant packaging, saves rack space and provides exceptional flexibility and serviceability.



F900A 9-Channel mainframe, 3U \$599.95
 FS900 2-Channel horizontal mini-frame 1U \$399.95
 902 De-esser module \$299.95
 903 Over Easy Compression module \$299.95
 904 Noise Gate module \$299.95
 905 3-Band Parametric/Notch Equalizer module \$499.95
 911 Type 1 NR Encode/Decode module \$239.95
 929 2 Channel single ended NR module \$399.95
 941A 2 Channel Type II Encode module \$259.95
 942A 2 Channel Type II Decode module \$269.95
 BP-900A Blank panel \$12.95
 900/EXT Extender card \$99.95

dbx Quantum



The New dbx Quantum is the first studio mastering tool that offers sampling rates up to 96kHz, with a true 48 bit digital signal path. The patent-pending dbx TYPE IV™ Conversion System allows you to retain the warmth and body you want in your signal while adding punch and depth, giving you the "big market" sound you want. Features include: 96kHz, 24 bit A/D, D/A, and Digital I/O on AES/EBU or S/PDIF • 4 band stereo compressor-gate-limiter • 5 band EQ - Hi and Lo shelves, 3 band fully parametric • Normalizer - lets you control overall signal dynamics • stereo adjust - control your stereo image • Sync I/O using dbx's own proprietary clock chips for extremely low jitter sync • dither outputs to 16, 20, or 24 bits • sample rate conversion • software updated via Internet and MIDI • and 4 and crossover with variable slopes.

Quantum \$1,995.95

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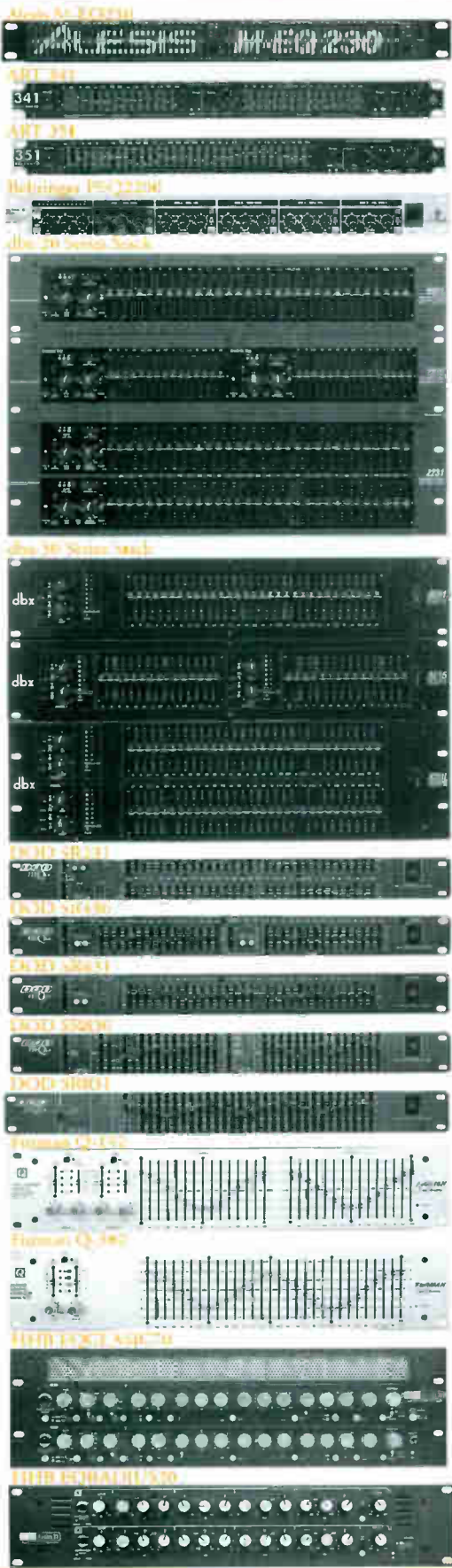
Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Audio Processing • Equalizers



Stereo Graphic 2/3 Octave

ART 341	15 Band, 1U, TRS & XLR	\$249.00
ART 342	15 Band, 2U, XLR, TRS & RCA	\$389.00
ART 343	15 Band, 1U XLR, TRS & RCA	\$159.00
Ashly GQX-1502	15 Band, 2U, TRS, XLR & BS	\$529.99
dbx 1215	15 Band, 2U, Balanced XLR, TRS & BS	\$569.95
dbx 2215	15 Band, 3U, TRS, XLR & BS, w/limiter & type III NR	\$349.95
dbx 3215	15 Band, 2U, XLR, BS & TRS	\$749.95
DOD SR430QX	15 Band, 1U, XLR, Balanced I/O	\$254.95
DOD SR830QX	15 Band, 2U, XLR, & 1/4" TRS	\$254.95
Electro-Voice EQ-215	15 Band, 1U, XLR & TRS	\$558.00
Furman Q-152	15 Band, 2U, XLR & TRS	\$489.00
Klark Teknik DN332	16 Band, 2U, XLR	\$1,215.00
Klark Teknik DN320	16 Band, 1U, XLR	\$875.00
Rane GE215	15 Band, 2U, XLR & Euroblock	\$559.00
Rane ME15B	15 Band, 1U, MicroGraphic, TRS & XLR	\$439.00
Rolls REQ215	15 Band, 1U, XLR, TRS & RCA	\$250.00
Samson E30	15 Band, 1U, TRS & XLR	\$249.99
White 4675	14 Band, 2U, XLR	\$1,250.00
Yamaha GQ2015A	15 Band, 1U, TRS & XLR	\$429.00

Stereo Graphic 1/3 Octave

Alesis M-EQ230	30 Band Dual, 1U, TS & RCA	\$299.00
ART 355	31 Band, 2U, TRS & XLR	\$389.00
Ashly GQX-3102	31 Band, 3U, TRS, XLR & BS	\$1,149.99
Behringer DSP-8024	31 Band, 2U, XLR, TRS	\$699.99
dbx 1231	30 Band, 3U, Balanced XLR, TRS, BS	\$469.95
dbx 2231	31 Band, 2U, TRS, XLR & BS, w/limiter & type III NR	\$799.95
dbx 3231L	31 Band, 3U, TRS, XLR & BS	\$1,199.95
DOD SR231QX	31 Band, 2U, XLR & TRS	\$376.95
Electro-Voice EQ-231	31 Band, 2U, XLR & TRS	\$858.00
Klark Teknik DN-360	30 Band, 3U, XLR (transformer bal. output \$1922)	\$1,750.00
Rane GE60	30 Band, XLR, BS & TRS	\$899.00
Rane ME60	30 Band MicroGraphic, 2U, XLR, TRS & RCA	\$699.00
Rane MQ302S	30 Band, 1U, XLR & TRS	\$429.00
Rane MQ302L	Same as MQ302S w/single set of 45mm faders for L&R channels, 2U ...	\$599.00
Rolls REQ231	31 Band, 2U, XLR, TRS & RCA	\$525.00
Sabine GRQ-3102	31 Band, 2U, TRS & XLR	\$1,299.95
Sabine GRQ-3102S	Slave, 1U, TRS & XLR	\$1,099.95
Samson E62	31 Band, 2U, XLR & TRS	\$379.99
Symetrix 532E	31 Band Dual, short throw, 2U, TRS & XLR	\$749.00
Symetrix 533E	31 Band Dual, long throw, 3U, TRS & XLR	\$949.00
White 4856	31 Band, 3U, XLR & TS	\$1,835.00
Yamaha Q2031B	31 Band, 2U, XLR & TRS	\$749.00

INPUT/OUTPUT CONNECTIONS

TRS = 1/4" Tip-Ring-Sleeve / TS = 1/4" Tip-Sleeve / BS = Barrier Strip / XLR = 3 Pin XLR



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Audio Processing • Equalizers

Mono Graphic 1/3 Octave		
ART 351	31 Band, 1U, XLR, TRS & RCA	\$249.00
ART 352	31 Band, 2U, XLR, TRS & RCA	\$389.00
ART 353	31 Band, 1U, XLR, TRS & RCA	\$159.00
Ashly GQX-3101	31 Band, 2U, TRS, XLR & BS	\$679.99
dbx 2031	31 Band, 2U, TRS, XLR & BS, w/limiter & Type III NR	\$549.95
dbx 3031	31 Band, 2U, TRS, XLR & BS	\$749.95
DOD SR431QX	31 Band, 1U, XLR, Balanced I/O	\$254.95
DOD SR831QX	31 Band, 2U, XLR, Balanced I/O	\$254.95
Electro-Voice EQ-131	31 Band, 1U, XLR & TRS	\$538.00
Furman Q-302B	30 Band, 2U, XLR & TRS	\$503.00
Klark Teknik DN300	30 Band, 2U, XLR (transformer bal. output \$1481)	\$1,395.00
Klark Teknik DN301	30 Band cut only, 2U, XLR (transformer bal. output \$1381)	\$1,295.00
Rane GE130	30 Band, 2U, XLR & Euroblock	\$529.00
Rane GE-30	30 Band, 2U, cut/boost cut, XLR & BS	\$799.00
Rane ME-30B	30 Band MicroGraphic, 1U, TRS & XLR	\$429.00
Sabine GRQ-3101	31 Band, 1U, TRS & XLR	\$799.95
Sabine GRQ-3101S	Slave, 1U, TRS & XLR	\$699.95
Symetrix 531E	31 Constant Q Bands, long throw, 2U, TRS & XLR	\$599.00
White 4828	31 Band, 2U, XLR & TS	\$1,000.00
White 4400	28 Band, 2U, BS	\$1,435.00
Yamaha GQ1031C	31 Band, 1U, XLR & TRS	\$399.00
Parametric		
Aphex 109	Dual 2-Band or mono 4-band, 1U, TRS, Tubessence	\$449.00
Ashly PQX-571	Mono 7 Band, 1U, TRS, XLR & BS	\$429.99
Ashly PQX-572	Stereo 7 Band, 2U, TRS, XLR & BS	\$759.99
BSS FCS-916	Mic/Line amplifier, 1U, XLR & TRS	\$999.00
HHB Radius20	4 Band, 2U, TS & XLR	\$749.00
HHB Classic70	4 Band, 3U, TS & XLR	\$2,950.00
Klark Teknik DN405	Mono 5 band, 1U, XLR (transformer bal. output \$1126)	\$1,040.00
Klark Teknik DN410	Stereo 10 band, 2U, XLR (transformer bal. output \$1922)	\$1,750.00
Rane PE-15	Mono 5 Band, notch filter, 1U, XLR & TRS	\$399.00
Rane PE-17	5 Band, 1U, XLR & TRS	\$549.00
Symetrix 551E	5 Band, 1U, XLR & TRS	\$449.00
Symetrix 552E	Dual 5-Band, 2U, TRS & XLR	\$749.00
t.c. electronic 1140	Mono 4 Band, 1U, TS & XLR	\$760.00
t.c. electronic 2240	Stereo 4 Band, 2U, TS & XLR	\$1,288.00
Stereo Digital Parametric		
Ross DPX Mainframe	30-Band, 1U, XLR (options for AES/EBU)	\$995.00
Zsys. z-ql	6-Band st., 2U, AES/EBU (Time Code option \$1,000)	\$3,000.00
Zsys. z-qlm	As above w/set of display & controls for each band, 4U	\$9,900.00
Programmable EQ		
BSS DPR-901 II	Mono 4 band Dynamic EQ/or new split function, dual ch. 2 band, 1U, XLR	\$1,549.00
Dolby 740	Spectral Processing, 1U, XLR	\$1,760.00
Oxmoor DEQ-I	Mono 29 band, 1U, XLR	\$1,118.60
Oxmoor DEQ-II	Mono 29 band, 2U, XLR	\$1,540.00
Rane RPE 228d	Stereo 28 band, Remote Programmable, 1U Euroblock I/O	\$1,249.00
Sabine REAL Q2	31 Band, 2U, TRS & XLR	\$1,999.95

Hotlinks to Vendors @

www.bgsfi.com
www.broadcastdealer.com



Audio Processing • Feedback

Behringer DSP1100P Feedback Destroyer



The Behringer DSP1100P Feedback Destroyer Pro detects feedback frequencies and sets extremely narrow, 1/60-octave filters which leave the program material practically unaffected. The result is solid sound without feedback or headaches. Features include: digital 2-channel feedback destroyer • parametric EQ on a high performance 24-bit DSP • 20-bit A/D-D/A converters with 64/128x oversampling • 24 fully programmable parametric filters that can be adjusted manually or via MIDI • single shot auto or manual mode selectable for each individual filter • 24-bit internal processing and professional 48kHz sampling rate, servo-balanced inputs and outputs with XLR and 1/4" TRS connectors. 1U & 7lbs.

DSP1100P Feedback Destroyer \$199.00

Goldline FD-23 Feedback Eliminator



The Goldline FD-23, used with any equalizer, is a fast and effective way to eliminate feedback. The FD-23 makes use of the same filters used in expensive 1/3 octave analyzers. You can simply and quickly ring-out any room by raising the level of the sound system until feedback occurs. The LED display of the FD-23 will indicate which frequency to cut allowing the minimum cut necessary to keep the music while eliminating the feedback. It is a rugged, portable instrument with built-in microphone and is powered by AA batteries or a 12 volt DC supply. 12oz., 3-1/4"x8"x2-1/4"

FD-23 \$259.95

Sabine FBX-1020 Plus & FBX-2020 Plus

Feedback Exterminator, Single or Dual Channel



The Sabine FBX-1020Plus automatically detects and eliminates feedback without damaging your sound. Features include: 20-bit digital resolution • 12 FBX filters • ClipGuard Adaptive Clip Level control which allows the FBX-1020Plus to accept input signals up to 26dBv without clipping and increase the effective dynamic range to 105dB • Turbo Setup Mode • internal power supply • more gain before feedback • eliminated feedback during program • and switchable filter widths: 1/10 or 1/5 octave • Constant-Q, filter tracking • and XLR-3 and 1/4" TRS I/O connectors. The FBX-2020Plus Dual Feedback Exterminator features 24 FBX filters (12 per channel). 1U & 8lbs.

FBX1020Plus Feedback Exterminator, single channel \$599.95

FBX2020Plus Feedback Exterminator, dual channel \$1,099.95

Sabine POWER-Q FBX Feedback Exterminator PLUS



The Sabine POWER-Q combines the functions of seven separate products into one easy to use package. The POWER-Q has unparalleled audio quality and flexibility with its 24-bit A/D processing and Analog Devices new SHARC floating-point processor. Some of the features include: 12 band parametric equalizer, 31 band graphic equalizer, 12 band FBX feedback exterminator, real time analyzer, compressor/limiter, noise gate/expander, digital delay, automatic room equalizing, ClipGuard adaptive clip level control and Power View interface. Store up to 99 user-defined configurations and load programs locally or via serial/MIDI remote control options. The POWER-Q is available in the following configurations to meet your specific requirements: standard analog I/O, digital I/O (with or w/o the analog), serial/MIDI interface for remote control via your PC and a blank front panel version for slaving to other POWER-Qs. 2U & 9lbs.

POWER-Q..... 2-Channel FBX Feedback Exterminator PLUS \$1,799.95
 ADF-4SLU 2-Channel Slave Unit \$1,549.95
 DA-I/O Digital I/O Option \$409.95
 SMR-I/O Serial Remote control I/O Option \$149.95

Sabine SOLO Feedback Exterminators



Like all the FBX Feedback Exterminators, the Sabine FBX-SOLO does what no other audio product can do - it automatically detects and eliminates feedback while leaving the sound crystal clear. The FBX-SOLO targets feedback without taking a big chunk out of your sound. Digital FBX filters are 10 times narrower than graphic EQ filters. You get back over 90% of the power you lose with a graphic EQ. The single channel SL-820 features increased headroom, a programmable noise gate and switchable I/O levels for more versatility. The SL-820 line level has 1/4" TRS I/O connectors. The SM-820 mic level has XLR 3-pin balanced I/O connectors. 9oz.

SL-820 Feedback Exterminator with 1/4" I/O \$324.95
 SM-820 Feedback Exterminator with XLR I/O \$349.95
 SL6Rack Rack Tray - holds up to six SOLOS \$44.95
 SPSU-1 SOLO Replacement power supply \$19.00



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Audio Processing • Noise Reduction

Behringer Denoiser



The Behringer Denoiser is a single-ended noise reduction units with a cut-off frequency active over a range from 800Hz to 20kHz. They greatly reduce system noise in radio and TV productions, recording studios, tape duplication facilities, cutting rooms and project suites. The active ingredients in Behringer's Denoisers reside in a side-chain, not in the way of the main signal path. This elegant "negative feedback" design offers minimal disturbance to your valuable signal, giving you a very clean, transparent audio pathway.

SNR2000 ... 2-Ch., Multi-band Denoiser ... \$289.00

dbx 140X and 150X

Noise Reduction



The dbx 140X and 150X provide more than 40dB of extra dynamic range. The 140X is ideal for cart machines, telco lines, videotape audio tracks, STL's, etc. The 150X is ideal for open-reel tape machines, full-bandwidth digital recorders, etc. Units are half/rack, 1U.

- 140X Type II Noise Reduction, 2 Channel \$319.95
- 150X Type I Noise Reduction, 2 Channel \$319.95

Dolby Model 363

Noise Reduction



The Dolby Model 363 provides two channels of Dolby SR and/or Type-A noise reduction. Features include automatic record/play change-over, built-in Dolby noise/tone generators, auto compare test facility and active balanced input and output circuitry.

- 363 SR/A Two-channel unit with #300 switchable Dolby SR and Type-A module \$2,995.00
- 363 SR Two-channel unit with #350 Dolby SR only modules ... \$2,655.00

Fiber Optics • Fiber Optics

LSI Fibox Systems

The LSI Fibox system is useful for permanent or temporary applications. On the transmit end, the FBAl-M module offers: two XLR mic/line inputs with high-quality mic pre-amp, gain trim, overload LED and phantom power • 20-bit delta-sigma A/D converters, 48kHz sampling and 64x oversampling • and a 1,310nm fiber-optic output driver. At the receive end, the FBAl-M module includes: a fiber-optic receiver • 20-bit co-linear D/A converters • and +4dBu balanced analog outputs on XLRs. Overall dynamic range is specified at 108dB through the system, and transmission distances of up to 4km are possible using multimode fiber. Up to five 2-channel slave modules can be added to each end and linked via multipair cable to the master modules, allowing a single fiber to carry up to 12 channels of 20-bit digital audio. Alternative output modules offer AES/EBU digital output (on XLR or BNC), with front-panel selectable output sampling rates of 32, 44.056, 44.1 and 48kHz, or synchronization to an external source.



- FBAl-M Master 2-channel, Analog input \$925.00
- FBAl-O-M Master 2-channel, Analog output \$980.00
- FBAl-SL Slave 2-channel, Analog input \$797.00
- FBAl-O-SL Slave 2-channel, Analog output \$821.00
- FBDO-M Master 2-channel, AES digital output \$995.00
- IMS-Tx 8-Channel AES digital audio transmitter plus 1-channel SMPTE digital video transmitter \$1,797.00
- IMS-Rx 8-Channel AES digital audio receiver plus 1-channel SMPTE digital video receiver \$1,552.00
- DATI-SI RS-232/422/485/MIDI/SMPTE/Slave xmtr \$725.00
- DATO-SL RS-232/422/485/MIDI/SMPTE/Slave rcvr \$750.00
- VFL300/T Video Transmitter Module \$1,183.00
- VFL300/R Video Receiver Module \$1,183.00
- LKI-6 Linking cable for up to 5 slaves, input \$105.00
- LKO-6 Linking cable for up to 5 slaves, output \$105.00
- RMK Rackmount kit for 1, 2 or 3 units \$56.00
- ST-ST Simplex 2 meter fiber patch cable \$42.00



DATI & DATO



Telecast Fiber Optic Systems

Telecast is the leader in fiber optic systems for television broadcast production. Applications include portable field production such as news, sports and entertainment and fixed installations such as STLs, sports venues, campus and metropolitan infrastructure. Telecast is the primary provider of fiber systems for all the U.S. TV networks, as well as many stations. They are also the leader in fiber systems for DTV and HDTV production.

Telecast Adder™ Digital Audio/Intercom "Snake"



Telecast Adder™ is a full function digital audio/intercom "snake". The Adder preamplifies, digitizes, multiplexes, and splits up to 64 audio channels on one lightweight fiber optic cable. The 162 and 332 systems are identical except for the number of audio channels that can be multiplexed onto a single optical fiber: 32 and 64 channels respectively. Both systems are modular, permitting combinations of line or microphone source channels and return drive lines. Both systems include up to six intercom channels, four high speed data lines, and two bi-directional switch closure interfaces, all on one optical fiber conductor. Adder features: 2-way, return audio capability (e.g., 32x32; 48x16 or 56x8) • 12lb/1,000 ft. cable saves 99% weight & labor • built-in microphone preamps and phantom BIAS power (a few millivolts power --- cannot power large shotguns) • 20km range, no repeaters or amplifiers • includes 6 intercom channels (4-wire, RTS or ClearCom) • dual, redundant LED outputs, plus coax I/O • automatic switchover protection of dual redundant detectors • two optical splits for courtesy feeds, recording trucks, etc. • built-in tone generator & signal analyzer. Complete systems from \$25,000 to \$40,000.

Other Telecast Adders

Other Telecast Adders include: Adder-161 one way 16-channel audio plus 2 data and 4 switch closures on 1 fiber • Adder-882 two way multiplexer, 8 audio each direction + 8 two way data + 4 closures • Adder-882i Intercom/Data multiplexer; up to 8 modular intercoms (4 dual RTS, 8 ClearCom) + 2 fixed duplex 4-wire intercoms + 8 2-way data (RS232, RS422, Sony CCU) + 4 bi-directional switch closures for tally, call, etc. all on one fiber (or 2 coax).



Telecast Cobra™

Fiber Optic Triax Extender



Telecast Cobra™ Fiber Optic Triax Extender for most popular triaxial based camera systems, converts triaxial camera interface to fiber optics for long distances and precabing of venues and facilities for most standard and wideband camera models from Ikegami, Philips and Sony. Consists of (1) Camera end unit, (1) Base station end unit, and interchangeable personality modules for various camera types. Price range from \$18,000 to \$22,000 for a complete system. Extra personality module sets for different camera types from \$5,000.

Telecast Python™

Multichannel Fiber Optic System



The Telecast Python™ is a low cost, multichannel fiber optic system for all Serial digital Video formats, up to 1.5Gbps uncompressed. The Python combines eight channels of fiber optic converters in a single rack frame. Select a transmitter and a receiver frame for eight channels in one direction; select two transceiver frames for four channels in both directions; or use miniature single channel transmitter or receiver units in conjunction with the Python frame to distribute signals to and from several locations simultaneously. Each channel's receiver provides you with two outputs and each transmitter channel has two inputs. One input equalizes your incoming coaxial signal, up to 540Mbps while the other is a direct input for rates up to 1.5Gbps. The unique front panel BNC monitor output lets you monitor any transmit or receive channel. The Python is ideal for use as a router or other high density applications (Python is not a multiplexer).

Python Each end \$5,995



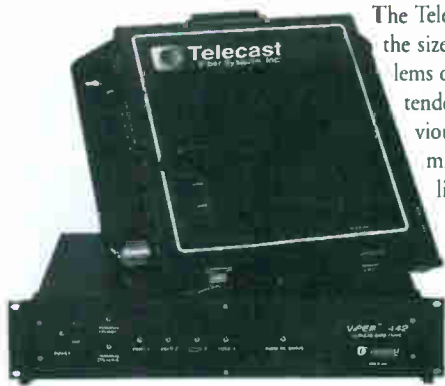
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Fiber Optics • Fiber Optics

Telecast Viper™



The Telecast Viper™ is your solution to the size, weight and transmission problems of copper cable. Your reach is extended, so now you can cover those previously impossible shots. Fiber also minimizes your need for microwave links and problems of line of sight and frequency allocation. Viper features: modular "Mussel Shells" or rackmount 8-module rackmount for up to 4 video, 8 audio + 2 channels of intercom (4-wire or ClearCom) or one dual channel RTS intercom •

70+dB NTSC video • 270Mbps 601/SMPTE - 259 M serial digital • 1.5Gbps uncompressed SMPTE-292M HDTV • multiplexed analog audio (95+dB S/N) or AES/EBU digital audio. The modular Viper system can be configured in portable "Mussel Shell" and/or 2U enclosures and includes uninterruptible power supply. Prices range from \$950 to \$1,150 per enclosures plus modules.



Video & Audio Transmitter (TX) & Receiver (RX) Module Sets:

TX/RX103-P.. NTSC/PAL Analog Video Module Set, FM based. RS250-C-SH	\$1,775.00
TX/RX259-L.. ITU-R 601 Serial Digital Video Interface Module Set; 270Mbps	\$1,995.00
TX/RX292-L.. Wideband Serial Digital Video Interface; 19.4Mbps to 1.5Gbps	\$2,495.00
TX/RX280-P.. Dual 18-Bit Audio Module Set; mic/line analog in; line out; aux ready	\$1,775.00
TX/RX380 Dual 18-Bit Expansion Modules augment TX/TX280; add up to 3 sets	\$995.00
TR260-P AES/EBU 2-way Transceiver Module; Digital Audio I/O	\$1,095.00

Telecast Viper II

Modular Platform for Digital and Analog Production

The Telecast Viper II is a natural evolution of the Viper. The result is an easy to use, flexible system that provides your facility's video, audio and auxiliary communications, at an affordable price. The modular system can be expanded, starting out as simple, low cost links that expand into something much larger as video and audio communication needs increase. You can begin with economical "throw down" boxes where you need them and then, when you accumulate multiple boxes, consolidate them all into a single rack frame by using module conversion kits. The 3U high, 19-inch frame has 16 card slots for use by modules or power supplies. Power supplies occupy 2 slots --- 4 for redundancy --- that would leave only 12 or 14 slots respectively for modules. No additional power supplies are required with a 12 VDC source. Power them from 48 VDC with a single or dual redundant supplies or 90 to 240 VAC, with auto sensing, single or dual supplies. One rack frame can house up to 16 transmitter or receiver modules, with the ability to mix and match analog or digital, video or audio modules. Other features of the Viper II include serial digital video, including ITU-R 601 (270 Mbps), SMPTE-292M (Hi-Def), Wideband studio quality NTSC/PAL video, RS250-C (SH), Mic/Line audio, 24-bit, AES/EBU digital audio. Applications for studio and campus facilities, pre-fibered facilities such as sports venues, airports, malls, government buildings, etc. • Studio-Transmitter Links • Mobile Field Production • News, Sports, Entertainment Vehicle to Camera - RF tower, • announce booth, stadium/arena • CATV/Telco Video Backhaul • Metropolitan Video Links. A Full Array of Function Modules are available: TX/RX5103-NTSC/PAL analog video module set; meets RS250-C-SH • TX/RX5259-ITU-R 601 serial digital video interface; 270 Mbps & others • TX/RX5292-HDTV serial digital video interface; 19.4 Mbps to 1.5 Gbps • TX/RX5285-Four channels of 24-bit audio; mic/line analog in; line out • TX/RX5260-AES/EBU module set; digital audio.



Other features of the Viper II include serial digital video, including ITU-R 601 (270 Mbps), SMPTE-292M (Hi-Def), Wideband studio quality NTSC/PAL video, RS250-C (SH), Mic/Line audio, 24-bit, AES/EBU digital audio. Applications for studio and campus facilities, pre-fibered facilities such as sports venues, airports, malls, government buildings, etc. • Studio-Transmitter Links • Mobile Field Production • News, Sports, Entertainment Vehicle to Camera - RF tower, • announce booth, stadium/arena • CATV/Telco Video Backhaul • Metropolitan Video Links. A Full Array of Function Modules are available: TX/RX5103-NTSC/PAL analog video module set; meets RS250-C-SH • TX/RX5259-ITU-R 601 serial digital video interface; 270 Mbps & others • TX/RX5292-HDTV serial digital video interface; 19.4 Mbps to 1.5 Gbps • TX/RX5285-Four channels of 24-bit audio; mic/line analog in; line out • TX/RX5260-AES/EBU module set; digital audio.



www.bgsfl.com
www.broadcastdealer.com

Telecast Sidewinder

The Telecast Sidewinder™ features: transceivers protected in rugged reel • 2 video, 4 audio + optional aux-on 1 cable • aux intercom 4-wire or 2-wire RTS/ClearCom • aux switch closure for Tally, Call, etc. • digital mic/line audio, over 90dB S/N • small reel 500' & medium reel 1,200' • and durable 6mm cable (.24" OD) 20lb/1,000ft. Military connector on 8 module Mussel Shell.



New reconfigurable modules.

Prices range from \$7,495 to \$17,345

Headphones • Headphones

AKG

AKG K240M

Deluxe monitor, fits around the ear, 15-20,000Hz, 88dB/mW, 600 , 9'9" cable and std. stereo plug Wt. 8.5oz.

AKG K240M \$173.00



AKG K240DF

Calibrated variation of the K240M monitor

AKG K240DF \$220.00



AKG K141M

Dynamic semi-closed, fits on top of the ear, high SPL, 20-20,000Hz, 98dB/mW, 600 , 9'9" cable and a std. stereo phone plug. Wt. 8oz.

AKG K141M \$150.00

AKG K55

Dynamic, sealed • 16-20,000Hz audio bandwidth • 96dB sensitivity • 200mW Max. input power • 32 impedance • 10 ft. cord w/18" to 1/4" stereo adapter.

AKGK55 \$51.60



AKG K66

Dynamic, semi-open • 18-22,000Hz audio bandwidth • 96dB sensitivity • 200mW Max. input power • 32 impedance • 10 ft. cord w/18" to 1/4" stereo adapter.

AKG K66 \$61.80

audio-technica

audio-technica ATH-D40fs

Enhanced-bass monitor headphones, 60 , 1/4" plug

ATH-D40fs \$150.00



audio-technica ATH-M40fs

Extended-response monitor headphones, 60 , 1/4" plug

ATH-M40fs \$150.00

Beyer Dynamics

Beyer DT131

Lightweight supra-aural open design 40 , 30-18,000Hz, 98dB SPL, 25ft. cord with 1/8" stereo plug and 1/4" stereo plug adapter

DT131 \$59.00



Beyer Dynamics

Beyer DT-770 PRO

The Beyer DT-770 PRO is an enclosed, high quality monitoring headphone for professionals who require a full bass sound as clinically accurate as the high and mid-range reproduction, equalized to meet diffuse field EQ requirements. Padded headband ensures long-term comfort. Circumaural, closed, 5-35kHz, 600 , w/10' cable and std. plug. 9.5oz.

DT-770 PRO \$199.00



Beyer DT-990 PRO

The Beyer DT-990 PRO high quality monitoring headphone is of a circumaural open design, is equalized to meet diffuse field EQ, has a wide frequency response, fast transient response and is durable yet lightweight for long term wear. 600 .

DT-990 PRO \$199.00

Beyer Parts

407.003 Replaceable ear pads for DT150, sold in pairs \$19.00

426.660 Replaceable ear pads for DT770, sold in pairs \$28.00

426.670 Replaceable ear pads for DT990, sold in pairs \$28.00

101.753 10' straight cable with 1/4" stereo plug \$36.00

101.826 10' coiled cable with 1/4" stereo plug \$43.00

Fostex

The closed Fostex T20RP, patented Regulated Phase system, ensures very low distortion, high output and long term reliability. All parts and assemblies secured by screws, assuring a long and useful life of easy maintenance. 20-30kHz, 50 , 9'8" cable. Wt. 10.6oz.

T20RP \$119.00



Koss

Koss headphones have a no questions asked, Manufacturer Lifetime warranty. Koss headphones come with comfort, reliability and outstanding sound. Made in the U.S.A.

Pro/4AA

Closed, 10-22kHz, 10' Coiled cord \$99.99

TD65

Stereo with closed ear cushion and adjustable headband \$29.99

TD80

Stereo with closed ear cushion and adjustable headband \$49.99



Headphones • Headphones

Sennheiser

All of the current Sennheiser headphones use neodymium magnets. Sennheiser headphones are fully modular allowing you to maintain perfect sound and functionality for years. All headphones above come with 10' replaceable stranded steel cable with mini plug. 1/4" stereo phone adapter included. *Most Sennheiser headphones carry a two year parts and labor warranty.*



HD25/SP

Closed, supra-aural design, 16-22kHz(-10dB), 70 , 5oz.
HD25/SP \$129.95



HD265

Closed linear, 10-30kHz, 150 , 7.5oz.
HD265 \$249.95



HD565

Digitally Ready, "Duofol" (2-layer membrane), 16-30kHz 150 , 8.9oz.
HD565 \$229.95



HD580

Digitally Ready, "Duofol", 12-38kHz, 300 , 9.2 oz
HD580 \$249.95



HZR 6

Universal volume control cable, interfaces with any 1/8" stereo headphone jack. Made of kevlar-reinforced oxygen-free copper, with stereo/mono switch and independent slider-type left/right volume controls. Length 21 feet
HZR 6 \$31.00

ART HPFX

Headphone Monitoring Systems with Effects



The ART HPFX solves a common problem with computer-based audio recording systems: It lets your performers locally monitor themselves through digital effects without hearing the crippling "latency" delay caused by a computer's soundcard. The HPFX also puts the performers in control of their monitor mixes of mic, effects, and backing tracks, while leaving the recorded signals untouched. Features included: two monitor mic preamps • four independent and adjustable headphone outputs • built-in stereo and dual digital effects • performer control of monitoring level, mix and effects • lightweight design for rack or mic stand mounting • FX adjust control • stereo or mono mix input • and can also be used as a "Traditional" headphone amp/splitter.

HPFX Headphone Monitoring Systems with Effects \$299.00

Pro Co HJ-4P Headphone Junction Box

Pro Co HJ-4P is a professional headphone junction box for splitting stereo amplifier output to 4 sets of headphones (150-600); female XLR type input with parallel male XLR type loop output; master left and right level controls; switches for mono/stereo and left/right; 4 stereo 1/4" resistor isolated headphone outputs.

HJ-4P \$122.20



Sony

These Sony headphones feature: rugged closed ear design, folding construction, gold connectors and oxygen free cord.



MDR-7502

30mm Driver Unit, 60-16kHz, (does not fold)
MDR-7502 \$77.00



MDR-7505

40mm Driver Unit, 10-20kHz, carrying bag
MDR-7505 \$135.00



MDR-7506

40mm Driver Unit, 10-20kHz, carrying bag
MDR-7506 \$177.00



MDR-7509

50mm Driver Unit, 5-30kHz, carrying bag
MDR-7509 \$260.00

Pro Co HJ-6 Headphone Junction Box

Pro Co HJ-6 headphone junction box is for splitting mono or stereo amplifier output to 6 sets of headphones (150-600); 1/4" left/mono and right inputs and 1/4" stereo (TRS) input; 6 stereo 1/4" resistor isolated headphone outputs.

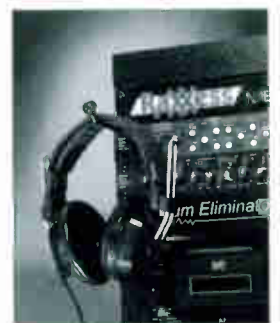
HJ-6 \$122.20



RaXXes Headphone Hanger

A convenient way to hang headphones. The HH-1 comes straight out of the rack while the HH-2 projects out at a right angle, taking the place of any rack screw already in your rack. Screw it in until it is in the desired position and tighten up the nut. Constructed of a #10 threaded rod, covered with a glossy black rubber tubing and terminated with a 3/4" black plastic ball.

HH-2 \$8.95



Whirlwind Headphone Breakout Box

This passive headphone distribution system divides a standard power amplifier output signal into 6 separate headphone outputs. A resistor divider network insures proper operation with headphones of any impedance.

HBB \$109.95



Headphone • Amplifiers

ATI HDA100



Benchmark HPA-1



Benchmark IFA-7



Fostex PH-50



JK Audio Remote Amp w/battery shown

JK Audio Remote Amp



Radio Design Labs ST-SH1



DOD SR460H



Furman HA6A



Behringer HA4400



Headphone Amplifiers	Dimensions HxWxD"	Balanced Input	# of Channels	Note 1 Power Supply	Rack Mount	Price
ATI HDA100	1.75x6x6	Yes	1	B	Opt 1U \$22-\$30	\$229.00
ATI HDA100-BAT	1.75x6x6	Yes	1	B/D	Opt 1U \$22-\$30	\$269.00
Behringer HA4400	1.75x19x4	Yes	4+1 Aux	A	1U	\$250.00
Benchmark HPA-1	Plug-in	No	1	C	N/A	\$70.00
Benchmark IFA-7	1RUx1/3Rw	Yes	1	B Opt/\$35	Opt 1U RM1 \$25	\$220.00
DOD SR460H	1.75x19	Yes	6	A	1U	\$239.95
Edcore 20-20	7x4x2	No	1	B	Surface Mt.	\$49.95
Edcore HA-400D	1.75x12x6.5	Yes	4	A	Opt 1U CRM \$23	\$204.88
Fostex PH-50	2x8.25x8	Yes	5+1 Aux	A	Portable	\$279.00
Furman HA6A	1.75x19x7.25	No	6	A	1U	\$419.00
Furman HA6AB	1.75x19x7.25	Yes	6	A	1U	\$453.00
JK Audio RemoteAmp	1.2x2.7x5.1	Yes	1	Battery	Belt Clip	\$215.00
OZ Audio HM-6	2x11x12	Yes	6	A	Portable	\$349.00
OZ Audio HR-4	1.75x19x8	Yes	4	A	1U	\$219.00
Radio Design Labs ST-SH1	Stick-On	Yes	1	B Opt/\$18	Opt \$120 Holds 12	\$121.00
Rane HC-6	1.75x19x8.5	Yes	6	A	1U	\$499.00
Rane MH4	1.75x19x5.3	Yes	4	B	1U	\$299.00
ROLLS HA-43	3x4x1.25	Yes	4	B	Portable	\$100.00
ROLLS RA-62	1.75x19x6.5	Yes	6	A	Portable	\$190.00
ROLLS RA-53	1.7x8.4x5	Yes	5	A	1U	\$160.00

Key-

Note 1 - Power Supplies
 A=Built-in AC Power Supply
 B=External Wall Mount DC Power Supply
 C=External Bipolar Supply
 D=Battery

Rane HC-6



Rane MH-4



ROLLS HA-43



ROLLS RA-62



ROLLS RA-53



1-352-622-7700

Headphone • Amplifiers

Headphone Amplifiers	Dimensions HxWxD"	Balanced Input	# of Channels	Note 1 Power Supply	Rack Mount	Price
Samson Q-5	1.75x8.5x6	Yes	5	A	Portable	\$179.99
Shure FP-22	3.2x2.2x6.1	Yes	1	D	Belt Clip	\$433.50
Stewart HDA-4	1.6x17.1x2.8	Yes	4	A	1U	\$299.00
Symetrix 304	1.5x8.2x6	Yes	4	B	Opt 539	\$299.00
Symetrix 506E	1.72x19x7.25	Yes	6	A	1U	\$529.00
Ward-Beck POD5	1.73x8.69x7	Yes	2	A	Opt RMK-1 or RMK-2 \$50	\$365.00
Ward-Beck POD6	1.9x4.5x.95	Yes	1	Opt B	Surface Mt.	\$125.00 \$175/Boxed
Key-	Note 1 - Power Supplies A=Built-in AC Power Supply B=External Wall Mount DC Power Supply C=External Bipolar Supply D=Battery					

Samson Q-5



Symetrix 304



Shure FP-22



Ward-Beck POD5



Ward-Beck POD6



Stewart HDA-4



Symetrix 506E



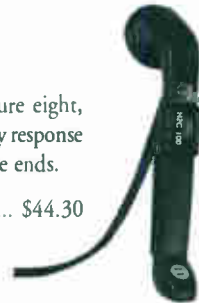
Headphone • Headsets

AKG

AKG HSC100

Single-sided communications headset with figure eight, noise canceling condenser microphone. Frequency response optimized for speech. Placed in ear. Open cable ends.

HSC100 \$44.30



AKG HSC150

Single-sided communications headset with figure eight, noise canceling condenser microphone. Frequency response optimized for speech. Clips over ear. Open cable ends.

HSC150 \$64.20



AKG HSC200SR

Lightweight, two-sided broadcast and communications headset with cardioid condenser microphone. Microphone has broad frequency response with adjustable EQ. Semi-open supra-aural headphones with self-adjusting headband. Microphone requires 9-52Vdc phantom power, terminated in XLR. Headphone terminated in 1/8" stereo plug with 1/4" adapter.

HSC200SR \$287.00



AKG HSD200SR/DC

Lightweight, two-sided communication headset with cardioid, noise canceling dynamic microphone. Frequency response optimized for speech. Semi-open supra-aural headphones with self-adjusting headband. Open cable ends.

HSD200SR/OC \$243.00



Audix

Audix HT-1

Audix HT-1 Headset mic, supercardioid, phantom powered.

HT-1 \$199.00



Headphone • Headsets

audio-technica

The Audio-Technica COM Series headsets have neodymium dynamic microphones with a flexible mic boom and cushioned ear pads. Features include: 40mm Driver • 30-20,000Hz frequency response • 90dB sensitivity • 50mW maximum input power • and -55dBv at 94dB SPL microphone sensitivity.

ATH-COM1

Mono, single muff w/4.9' cable w/2 mono mini plugs, and 2 gold-plated 1/4" mono plug adapters, 2.5 oz.

COM-1 \$49.95



ATH-COM2

Stereo, dual muff w/4.9' cable w/1 stereo / 1 mono mini plug, and 1 stereo / 1 mono 1/4" gold plated plug adapters, 3.5 oz.

COM-2 \$59.95



Clear-Com Headsets

CC-26.....Single muff lightweight,
4-pin female XLR.....\$149.00

CC-95.....Single muff standard,
4-pin female XLR.....\$196.00

CC-95-R RTS, single muff standard, 4-pin male XLR \$202.00

CC-260 Double muff standard, 4-pin female XLR \$238.00

CC-260-R RTS double muff standard, 4-pin male XLR \$245.00

CC-260-6 Split ear double, 6-pin female XLR \$246.00

CC-40 Single ear economy, 4-pin female XLR \$106.00

CC-60 Double ear economy, 4-pin female XLR \$130.00

HS-6..... Telephone style handset, 4-pin female XLR \$102.00

PT-4 Push-to-talk handheld mic, 4-pin female XLR \$70.00

ES-1 Ear sock cover for all headsets, pair (not CC26) \$9.00



Beyer Dynamics

Beyer DT 180

The Beyer DT 190 is excellent for long term wearing without fatigue. Double-sided broadcast headset. Impedance: 200/250Ω, with a noise-canceling on-air mic, high SPL capability, studio quality monitor transducer, and is modular in design for easy servicing.

DT 190 Dual muff, dark gray \$389.00
DT 180 Single muff, dark gray \$329.00



Beyer DT 290

The Beyer DT 290 is a double-sided, reference quality, closed ear monitor with hypercardioid, electret condenser microphone complete with K 190.00 cable, lightweight, single exit, plug-in cable assembly. 8Ω

DT 290-80Ω \$299.00
DT290-250Ω \$329.00



Note: Beyer provides all of their headphones terminated to industry standard connectors for a nominal increase in price.



Beyer DT 280

The Beyer DT 280 is a single-sided lightweight headset with dynamic microphone complete with K 190.00 cable, low profile design, reference quality, closed ear monitors, hypercardioid, single exit, and plug-in cable assembly. 8Ω

DT 280-80Ω \$259.00

Beyer DT 108 and DT 109

The Beyer DT 108 and DT 109 dynamic headsets have a noise-canceling mic with a frequency range of 30-20000Hz. These rugged, field-serviceable headsets have headphone transducers that feature extended frequency response for clear, audible, speech transmission. The protective earcup attenuates up to 20dB of ambient noise. Please specify headphone impedances of 50Ω (RTS), 400Ω (CC), or 600Ω; mic impedance is 200Ω, with color choice of black or gray. Comes supplied with a 5' open ended cable. These headsets are offered with a variety of standard connectors for camera, or Clearcom and RTS intercom systems.



DT 108 Single-muff \$289.00
DT 109 Dual-muff \$349.00

Beyer Headset Accessories

WS-108/109 Windscreen for DT 108/109 #280.836 \$10.00
K 109.00.1.5m ... 5' Open ended cable for DT 100's #101.907 \$30.00
K 109.00.30m ... 10' Open ended cable for DT 100's #127.949 \$33.00
K 190.00.1.5m ... 5' Straight open-ended cable for DT 180/190/280/290 #431.575 \$43.00
WK 109.00 10' Coiled open ended cable for DT 100's #198.900 \$43.00
EP 100 Earpads sold in pairs for DT 108/109 #407.003 \$19.00
EP 150/190 Earpads sold in pairs for DT 150/190 #431.532 \$27.00
EP8DT 250-00 Earpads (cloth covered) sold in pairs for DT 200's #442.704 \$17.00
EP8DT 250-03 Earpads (soft PVC covered) sold in pairs for DT 200's #443.549 \$17.00

Samson

Samson Headsets include P3 connector and PM4 phantom mic adaptor, condenser mic element, hypercardioid pattern, 50Hz-18kHz.

QE..... Wired Headset Mic- Aerobics \$299.99
QV Wired Headset Mic- Vocal \$299.99
PM4 Phantom power adaptor, P3 in, XLR out, beltclip \$35.99



Shure

The Shure SM-2 is a professional headset with a dynamic cardioid microphone designed for excellent rejection of noise. The SM-2 has large, pillow-soft ear pads for external noise isolation and a covered metal headband with a detachable cable that allows quick cable changes for mono, stereo or split feed headphone functions. Untermated.

SM-2 \$373.63
A120S Universal Cough Switch \$27.00



Headphone • Headsets

Sennheiser

The Sennheiser HMD25-1 is a supra-aural dynamic, closed headphone with 30-16000Hz response and a super-cardioid dynamic mic with 50-12000Hz response. Sealed ear cushions and directional mic reduces surrounding noise. Microphone can be worn on either left or right side. Serviceability is assured by easy disassembly of all components. Comes supplied with a 6' stranded steel cable terminated in stripped and tinned leads. Weight 17 oz.

- HMD25-1 Supra-aural, closed headphone with a dynamic supercardioid boom mic \$450.00
- HMD25-XQ .. Supra-aural, closed headphone with a dynamic supercardioid boom mic w/XLR & 1/4"TRS \$475.00
- HME25-1 Same as HMD but w/electret omnidirectional boom mic \$525.00

Telex

The Lightweight Telex intercom headsets are terminated with A4F and A5F plugs to complement Telex audiocom or Clear-Com Intercom systems. The same series also comes with A4M and A5M plugs for complete compatibility with TRS Intercom Systems. This professional series features durable construction, black finish and high quality dynamic earphone receivers and microphones.

- PH-4 Dual-sided monaural, 150Ω earphone, 6' cord, A4F plug \$155.00
- PH-4R As above with A4M plug \$155.00
- PH-5 Dual-sided binaural, 300Ω/side earphone, 6' cord, A5F plug .. \$160.00
- PH-5R As above with A5M plug \$160.00
- PH-8 Single-sided monaural, 150Ω earphone, 6' cord, A4F plug ... \$145.00
- PH-8R As above with A4M plug \$145.00
- PH-8E Single-sided monaural, 150Ω earphone, 12' coiled cord, A4F plug \$160.00

Telex PH-24

The Telex PH-24 has a full studio quality electret condenser microphone sound plus lightweight comfort. The PH-24 miniature noise canceling electret microphone provides an extremely flat frequency response with significantly attenuated background noises and comes with a push-to-cough switch. Earphones 150Ω with a 9' cord to pigtail.

- PH-24 \$290.00

Telex PH-25

The Telex PH-25 is much like the PH-24, but it is dynamic binaural, with 250Ω omnidirectional condenser mic. Earphones 300Ω /side with a 9' cord to A3M/1/4" plug.

- PH-25 \$350.00

Sennheiser

The Sennheiser HMD410-6 is a supra-aural, open-aural, 600Ω headphone (20-18kHz) with a dynamic supercardioid, 200Ω boom mic (50-12kHz). Comes supplied with a 6' stranded steel cable terminated in stripped and tinned leads. Weight 18 oz.

- HMD410-6 \$325.00



The Telex V-Series professional, high fidelity headsets and headphones are modular in design. Two microphone capsules and a wide variety of five foot cord sets that plug into the headset using self-locking "Hirose" connectors are available.

- V-200 Round, full cushion dual headphone (600Ω) \$145.00
- V-210 Single-sided with boom (150Ω) \$125.00
- V-220 Double-sided with boom (150Ω std. or 75Ω mono) \$170.00
- MB-11 Cardioid dynamic mic, 150Ω \$51.00
- MB-12 Cardioid electret mic, 150Ω \$51.00
- CA10 XLR-3 male/1/4" w/PS and PTC switch for electret \$155.00
- CA-11 XLR-3 male/1/4" w/PTC switch for dynamic mic \$115.00
- CA-20 XLR-4 female \$52.00
- CA-22 XLR-4 male \$52.00
- CA-30 XLR-5 female \$67.00
- CA-33 XLR-5 male \$67.00
- CA-40 Sony 1/8" mini 4-conductor \$67.00
- CA-60 Stereo 1/4" for headphones \$52.00
- CA-70 6-conductor, tinned ends \$47.00

Modular Microphone and Cordset Components

<p>Cord Assemblies</p> <p>CA-10 (300029-007) XLR-3 Male and 1/4" phone, 5' (1.5 m) straight cord w/power supply, PTC switch for electret mic and Hirose connector</p> <p>CA-11 (300029-011) XLR-3 Male and 1/4" phone, 5' (1.5 m) straight cord w/PTC switch for dynamic mic and Hirose connector</p> <p>CA-20 (300029-001) XLR-4 Female, 5' (1.5 m) cord with Hirose connector</p> <p>CA-22 (300029-000) XLR-4 Male, 5' (1.5 m) cord with Hirose connector</p> <p>CA-30 (300029-008) XLR-5 Female, 5' (1.5 m) cord with Hirose connector</p> <p>CA-33 (300029-004) XLR-5 Male, 5' (1.5 m) cord with Hirose connector</p> <p>CA-40 (300029-006) Sony 1/8" mini 4-conductor, 5' (1.5 m) cord with Hirose connector</p> <p>CA-60 (300029-005) 1/4" mono, 5' (1.5 m) cord with Hirose connector</p> <p>CA-60 (300029-003) 1/4" stereo, 5' (1.5 m) cord with Hirose connector</p> <p>CA-70 (300029-002) pig tail, 5' (1.5 m) cord with Hirose connector</p> <p>CA-80 (300029-010) 1/8" mini stereo, 5' (1.5 m) cord with Hirose connector</p>		
<p>Microphone Cartridges</p> <p>MB-11 (300028-000) Supercardioid Dynamic</p> <p>MB-12 (300028-001) Supercardioid Electret</p>		

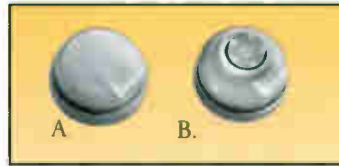
Headsets - Earsets

Telex Announcer Earsets

To provide optimum versatility, the Telex Announcer's Earset is made up of interchangeable component parts which simply snap together. Depending on the component pieces selected, users can construct a version of the Announcer's Earset that best suits their particular need.

Telethin® Drivers

- A. RTR-04 15 Ω \$15.00
- RTV-04 125 Ω \$15.00
- RTW-04 500 Ω \$15.00
- RTX-04 1000 Ω \$15.00
- RTY-04 2000 Ω \$15.00
- B. RTW-04V* .. 500 Ω \$43.00
*with volume control

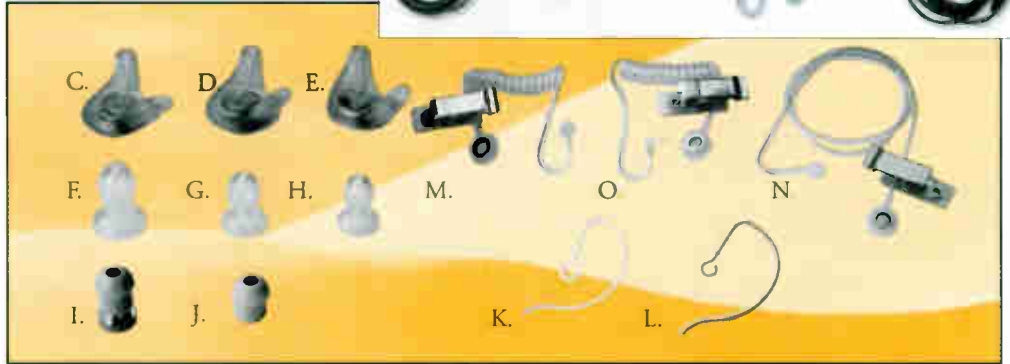


Telex Announcer Earsets



Earmolds

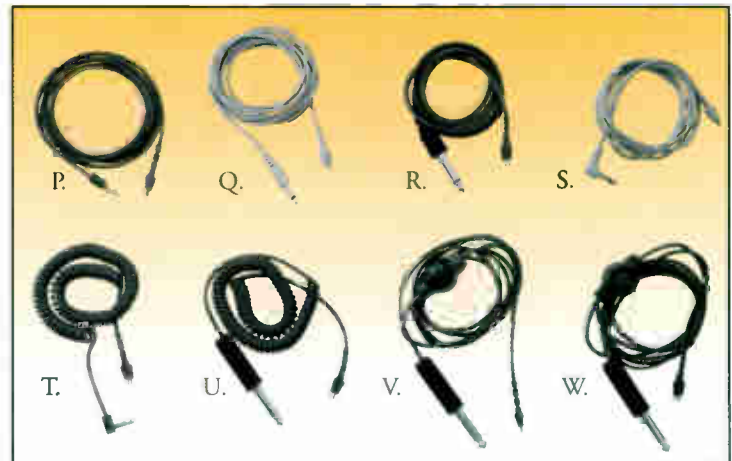
- C. EML-1R Lg. Right ear \$17.00
- EML-2L Lg. Left ear \$17.00
- D. EMM-1R Med. Right ear .. \$17.00
- EMM-2L Med. Left ear \$17.00
- E. EMS-1R Sm. Right ear \$17.00
- EMS-2L Sm. Left ear \$17.00



Eartips/Earcones/Earloops/Eartubes

- F. BT-4 Large Earcones for use with ET-4 & ET-5, bag of 5 ... \$14.00
- G. BT-3 Medium Earcones for use with ET-4 & ET-5, bag of 5 \$14.00
- H. BT-2 Small Earcones for use with ET-4 & ET-5, bag of 5 ... \$14.00
- I. ET-1 Eartip, Flesh tip with plug \$5.50
- J. BT-1 Eartips for ET-1, Bag of 25 \$35.00
- K. AEF-2 Plastic covered metal earloop \$5.00
- L. AEF-3 Nylon earloop fits eartip & Telethin receivers \$5.00
- M. ET-2 Coiled acoustic eartube with clothing clip use w/earmold/tip \$19.00
- N. ET-3 Straight acoustic eartube with clothing clip use w/earmold/tip \$19.00
- O. ET-4 Coiled acoustic eartube with clothing clip, use w/earcones, comes w/1 ea. S, M & L earcones \$24.00

High-flex Telethin® cords



Earset Packages

- EMV-2 Includes: RTV-04, CMT-2, & AEF-3
- EMV-2 \$28.00
- CES-1 Includes: RTV-04, CMT-2, & ET-4 (ET-4 comes w/1 ea. sm/md/lg)
- CES-1 \$54.00
- CES-2 Includes: RTV-04, CMT98, & ET-4 (ET-4 comes w/1 ea. sm/md/lg)
- CES-2 \$54.00



- P. CMT-95 .. 5' cord w/sub-miniature .097" phone plug, gray \$19.00
- Q. ... CMT-98 .. 5' cord w/straight miniature .140" phone plug, beige \$19.00
- R. .. CMT-2 5' cord 1/4" phone plug, gray \$19.00
- S. ... CMT-92 .. 5' cord w/right angle miniature .140", beige \$19.00
- T. ... CCX-2 5' coiled cord w/right angle miniature, gray \$21.00
- U. ... CCT-2 5' coiled cord w/1/4" phone plug, gray \$21.00
- V. ... VXT-3 5' cord w/500Ω volume control & 1/4" phone plug \$45.00
- W. ... VYT-3 5' cord w/2000 Ω volume control & 1/4" phone plug \$45.00

1-352-622-7700

Intercoms

Anchor PortaCom Intercom System



The Anchor PortaCom is a flexible, 2-channel wired intercom. With two channels, you can have the advantage of extensive communications without getting tangled in crosstalk. PortaCom can operate on 6 D-cell batteries if no AC power is handy. You can start with a basic two-person system and expand all the way to a 20 person system, all running from a single AC power supply over standard mic cable. The small, lightweight aluminum belt pack has its own channel switch, volume control,

call light and mic on/off buttons. Headsets are extremely comfortable and feature noise-canceling microphones which greatly reduce background noise for clearer communication. For remote locations, you can power the system with the optional lightweight battery pack. One 2-channel system includes: one PC-100 power console, two H-200 dual-earpiece headsets, two BP-200 belt packs, two EX-50M 50' extension cables and one CC-15 carrying case.

COM-20 2 Headset, 2-Channel Intercom System \$944.00
 COM-40 4 Headset, 2-Channel Intercom System \$1,596.00
 COM-60 6 Headset, 2-Channel Intercom System \$2,378.00
 COM-80 8 Headset, 2-Channel Intercom System \$3,230.00

Anchor PortaCom MSS-100

Modular Speaker Station

The Anchor PortaCom MSS-100 Modular Speaker Station can be the control station of an expanded intercom system for sports, television remotes, studio productions, Electronic News Gathering (ENG), team training and theater productions. The MSS-100 is both a speaker station and a headset station.



MSS-100 Modular Speaker Station \$359.00

Anchor PortaCom PGM-100

Program In/Audio-Out Module



The Anchor PortaCom PGM-100 Program-in/Audio-out Module is a two channel, Program Insertion Station and is part of the PortaCom™ intercom system. It is in a package similar to the B3-100 Branch Box. The PGM-100 provides a means to insert program audio onto the intercom line. A switch on the PGM-100 selects which channel the program audio is inserted onto (Ch.A or Ch.B). A level control sets the audio level on the intercom line. The PGM-100 also allows for audio-out/intercom-out operation.

PGM-100 Program-in/Audio-out Module \$159.00

Broadcast Tools ICM-16 Intercom Systems

ICM-16/Controller



The Broadcast Tools ICM-16 offers connectivity for up to sixteen Intercom stations. Features include single, five station work group and all-call capabilities • inexpensive CAT 3,4,5, cabling • active balanced send and receive audio • receive audio mute control • and station call indication. The controller handles up to eight intercom stations and may be expanded to sixteen by adding an additional controller. The one rack unit controller supports all audio and data routing functions. All send and receive talkback audio is switched with high quality analog switch arrays. Intercom stations are available in six versions: 1) The OEM version is for custom installations in the studio. 2) The DT/Desk-top version provides an ergonomically designed sloped front case. 3) The 3U rackmount version of the intercom station is equipped with a powered speaker and level control, headphone jack, built-in electret condenser mic, front panel XLR connector for an external mic, CALL indicator and internal power supply. 4) The CM version was designed for insertion into most console modules. 5) The ToolBox-1 version was designed for projects requiring the interface of 2-way radios, sub-carrier IFB, telco IFB, PA systems, etc. 6)The MHI version was designed to integrate a console monitor and headphone system directly to the ICM-16 (muting, dimming, T/B insertion) etc.

ICM-16CNTRL 8 Station Controller, order 2 for 16 stations \$629.00

ICM-16RM Rack Mount



ICM-16 Console Mount (CM)



ICM-16 Desk Top (DT)

ICM-16RM Rackmount version \$239.00
 ICM-16 Specify DT or CM version \$229.00
 ICM-16OEM OEM version \$199.00
 ICM-16/MHI \$299.00

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www.bgsfl.com

www.broadcastdealer.com



Broadcasters General Store phone 352-622-7700

Intercoms

ClearCom Party-Line Intercom Systems

ClearCom Party-Line Intercom is a full-duplex, distributed amplifier system, where all electronics are contained in each user station. This wide bandwidth system offers high level audio for your production whether it's large or small. A central power supply provides audio termination and short-circuit proof regulation for the system. The system can be designed from a host of user stations, power supplies and accessories. It can be one channel, or 12 channels and all components are compatible to allow for future system expansion.

ClearCom MS-232 Main Station



The ClearCom MS-232 Main Station is a feature laden, two channel intercom station. It supports up to 60 headsets or 20 speaker stations with separate short-circuit protection and auto-reset for each channel. Optional plug-in gooseneck microphone. 1U

MS-232	\$995.00
GM9	9" gooseneck mic..... \$155.00
GM18	18" gooseneck mic..... \$165.00

ClearCom CS-222 Portable Main Station

The ClearCom CS-222 Portable Main Station is a rugged, lightweight, two-channel intercom station. It supports up to 30 headset stations. Operator can talk or listen on either channel, combine them, or access them separately without trying both channels together.



CS-222	\$876.00
RK-101	Rackmount kit for CS-222, 2U \$80.00

ClearCom RS-501 Single-Channel Beltpack

The ClearCom RS-501 beltpack is a single-channel beltpack with volume control, mic on/off switch, signal button and indicator, side tone adjust, 4-pin headset male connector, belt clip, and a 3-pin intercom and loop-through connectors. Surface-mount adapter included.



RS-501	\$238.00
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ClearCom RS-502 Two-Channel, Dual-Listen Station

The ClearCom RS-502 beltpack is a two channel, dual-listen station, with monaural output. Programmable switching lets the user listen to both channels simultaneously and select which channel to talk on. It includes individual volume control for each channel, mic on/off, call signal button and indicators, side tone adjust, 4-pin headset male connector, and a 6-pin loop-through intercom connector.



RS-502	\$330.00
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ClearCom RS-522 Two-Channel Beltpack

The ClearCom RS-522 beltpack is a two channel unit that allows simultaneous listening and talking on two intercom channels. The headphone output operates in a "split-feed" stereo mode, feeding each channel into a separate ear of a double-muff headset. It includes individual volume control for each channel, mic on/off, call signal button and indicators, side tone adjust, 6-pin headset and intercom connector. (To be used with CC-250/6 headset)

RS-522	\$366.00
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PL-Pro Party Line Intercom



ClearCom PL-Pro Party Line Intercom is designed specifically for the demanding world of broadcast and video production, including multiple built-in IFBs, intuitive front panel controls with big, easy-to-use buttons and bright illuminated call signaling.

All stations come standard with controllable logic that allows them to be configured with a variety of controls and features.

MS-440*	4-channel headset/speaker main station w/1 amp PS, 2U	\$1,468.00
SB-440*	4-channel switchboard main station, 2U	\$2,049.00
MS-812A-12* ..	12-channel programmable** Master Station, 2U	\$3,860.00
RM-220	Remote Headset Speaker Station, two channels, 1U	\$766.00
RM-440	Remote Headset Speaker Station, four channels, 2U	\$1,146.00
KB-211	Headset Speaker Station, two channels, wall flush mount	\$329.00
KB-212	Speaker/Mic Station, one channel, push-to-talk, flush wall mt.	\$329.00
MR-102A	Speaker Station, two channels, console or electrical box mt.	\$236.00
MR-104A	Speaker Station, four channels, console or electrical box mt.	\$340.00

*Accepts optional plug-in gooseneck mic
**Other configurations available, also needs power supply

ClearCom Matrix-Plus Digital Intercom



ClearCom Matrix-Plus 3@ Digital Intercom systems are programmable communications systems that offer any desired combination of point-to-point, group, and party-line communications. They seamlessly interface with telephones, two-way radios, party-line intercom and other communications systems. Widely used in TV/broadcast, aerospace, and industrial applications, Matrix Plus 3 systems are available in 8-, 16-, 24-, 72-, and 200-port (channel) versions. Please call for individual piece pricing and further information on larger systems.

MicroMatrix Systems

MMX-8	8-port digital intercom, 2U(expands to 24)	\$4,195.00
MMX-16	16-port digital intercom, 2U(expands to 24)	\$5,770.00
MMX-24	24-port digital intercom, 2U	\$7,345.00



Plug it in.

Set it up.

NEW The 506E
**HEADPHONE
AMPLIFIER**

Go change the oil in the station van.

506E Features

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- ▶ 6 direct ins and 6 direct outs
- ▶ Assignable LCR mono cue input
- ▶ Proprietary high voltage drive technology
- ▶ Crystal clear, low distortion for reduced listening fatigue
- ▶ Optional 4-way mounting HR-1 Remote with audio loop thru for daisy chaining

You've got *better* things to do with your time than worry about your station's audio... change light bulbs, fix the PD's radar detector, figure out where all the new batteries went.

The New 506E HEADPHONE AMP has everything you need to make your monitoring setup a snap.

The 506E features an internal power supply (no wall wart or line lump), LCR assignable cue input for IFB or producer talkback, and the Symetrix name.

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And it too was great.

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Manufacturing Plant: Am Labor 1, 30900 Wedemark, Germany
World Radio History

Intercoms

ClearCom On-Air Announcer's Console

The ClearCom AB-100 On-Air Announcer's Console is a compact desktop unit designed specifically for sports, live event broadcasting, and voice-over work. The AB-100 integrates all of the inputs, outputs and controls necessary at the announce position, including intercom "Talkback," IFB receiver, and a silent "Mute" button that provides noise-free "Cough" and "Mic on/off" switching. It includes an adjustable mic preamp and high-output line amplifier for

20 to 20kHz frequency response and 0dB output with +20dB headroom. A stereo headphone amplifier guarantees talent can always hear both program audio and "cues" from the control room. It plugs into and draws power directly from most intercom and IFB systems or can be powered with the supplied AC adapter.
 AB-100 Announcer's Console \$973.00
 AB-2X AB-100 second party line channel upgrade kit.....\$193.00



Intelix MZP

Zoned Paging and Program Audio Distribution System



The MZP is a marriage of a matrix mixer, programmable remote controls and Windows based programming software. It is an integrated system for small to medium sized audio distribution and voice routing applications. Stock configurations include cross point level controlled mixer, power supply and user manual.



Please call for custom configurations from 8 inputs/outputs to 128 inputs/outputs.

Model	Ins	Input type	Outs	Output type	Control Function	Price
MZP8L8L	8	line level	8	line level	MZP software	\$3,169.00
MZP16L8L	16	line level	8	line level	MZP software	\$4,724.00
MZP24L8L	24	line level	8	line level	MZP software	\$5,929.00
MZP32L8L	32	line level	8	line level	MZP software	\$7,164.00
MZP8L16L	8	line level	16	line level	MZP software	\$4,774.00
MZP16L16L	16	line level	16	line level	MZP software	\$6,799.00
Comet Series	Remote Controls for Matrix Mixer					\$119.00
Comet PS	12VAC 200mA, will power up to 15 Comet Series Remotes					\$76.65

SAS Matrix Intercom/IFB or Mix-Minus & IFB Systems

The SAS Intercom Systems are built around SAS 32000 Series Switching and Mixing System components. One 3U frame services up to 32 user stations. Software programmable features include full eight character alphanumeric subscriber designation, separate talk and listen capability, interruptible foldback (IFB) and programmable groups. Fully featured control panels include intuitive alphanumeric selection, "hot punch" programmable talk and listen push-buttons, communications mic and preamp, loudspeaker and amplifier. They are available in eight or sixteen button, rackmount and desktop configurations. Also available are single rack and console mount stations that provide control-only for locations with access to line/mic level signals and cue speakers relating to audio consoles or news desks.



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World Radio History

Intercoms

Studio Technologies 50 Central Controller



Studio Technologies Model 50 Central Controller with Model 51 Control Console

Console is an advanced StudioComm system featuring seven stereo inputs, two control room outputs, studio monitoring, and three communications functions. It allows connection of up to four Model 35 or Model 38 Talent Amplifiers.



Model 51 Talent & Back



Model 50 with 51 \$1,799.00

Studio Technologies 55 Central Controller



Studio Technologies Model 55 Central Controller with Model 56 Control Console

is a reduced-feature version featuring four stereo inputs, one control room output, and two communications functions. It allows connection of up to four Model 35 or Model 38 Talent Amplifiers.

Model 55 with 56 \$1,299.00

Studio Technologies 35 Talent Amplifier

Talent Amplifier



Model 35

Studio Technologies Model 35 Talent Amplifier is a portable talent amplifier that drives up to two pairs of headphones and connects to Models 40, 50, and 55. It includes microphone stand mounting adapter.



Model 35 Back

Model 35 \$159.00

Studio Technologies 38 Talent Amplifier

Talent Amplifier

Model 38



Model 38 Back



Studio Technologies Model 38 Talent Amplifier is a portable talent amplifier with a stereo preamplifier section and allows creation of personal cue mix. It connects to Models 40, 50 and 55.

Model 38 \$249.00

Studio Technologies IFB 2 Central Controller



The Studio Technologies Model 2

Central Controller contains two independent IFB channels for ENG, SNG, and mobile production facilities. Each channel has a complete set of controls and indicators. Program source select switches allow one or more of the four program inputs, as well as incoming audio from the two telephone interfaces to be selected as program audio. Program level controls allow adjustment of the selected program sources. Channel audio level is displayed by 5-segment LED meters. Channel interrupt activity is displayed by LED indicator lights. Other features include: internal interrupt mic • Voice operated, VOX, interrupt • and monitor amplifier. 1U



Model 2 \$1,795.00

Accessories

- M11 Panel mounted electret 12" gooseneck mic for M22 \$155.00
- M25 19" Rack Adapter for M22 \$48.00
- M28 Panel Adapter for mounting M22 & M11 in an equipment console/desk \$48.00
- M36 Set of two brackets used for mounting M32 & M33 underneath desk \$27.00
- CA9/10 ... 10' Shielded Multi-conductor Interface cable for linking M2 & M22 \$19.00
- CA9/50 ... 50' of above Interface cable \$58.00

Studio Technologies 22 Access Station



The Studio Technologies Model 22

Access Station can be used to provide additional IFB origination locations for those that need to cue talent or related personnel. Up to four 22s can be connected to and powered by a Model 2. Normally installed with an M11 Gooseneck Mic and either M25 or M28 mounting adapter.

Model 22 \$205.00

Studio Technologies 32 & 33 Talent Amplifiers



The Studio Technologies Model 32 and 33 Talent Amplifiers are self-contained "belt pack" units that drive talent ear pieces or headsets. Any combination of up to four Talent Amplifiers

can be supported by the Model 2's talent amplifier output. The model 32 is intended for use by on-air personnel, and contains a source switch, along with an output level control. Either IFB channel can be sent to the talent at the desired volume. The 33 is unique in that a "mix" of IFB channels 1 and 2 can be created. Two level controls, along with a source select switch, allow camera and production personnel to hear IFB cues from either or both channels. This allows IFB signals intended for both technician and talent to be simultaneously monitored.



M32 \$165.00
M33 \$190.00

1-352-622-7700

Telex Audiocom Intercom System



The Telex Audiocom is a headset intercom system consisting of modular components that can be connected with conventional wiring to form a simple party line communication system or a more sophisticated network using "director controlled" multi-channel configurations. Telex also offers Radiocom wireless intercom for professionals that require the added convenience of wireless operation. Radiocom products can be used in conjunction with wired systems, or separately as a stand alone system.

Call for further information and system pricing.

Telos Link Intercom-to-Telephone Interface

The Telos Link solves the problem of interconnecting production intercom systems with dial-up telephone lines. Anyone with access to a telephone, even a cellular phone, can instantly and automatically be connected with your intercom.



Digital auto-nulling hybrids on both the telephone and intercom audio paths allows connections to be made without the usual gain and feedback problems while maintaining natural, full-duplex operation. Features include: a "wet" single-channel operation option is selectable from the front panel. In this mode, the Link provides power to one or two belt packs and functions as a stand-alone intercom system • an auto-answer/auto-disconnect function is built-in • a function to alert listeners that a call is ringing in is standard • monitor output is provided to hear the communications from the phone line • and a loop-through connection is provided for a phone set.

Link Intercom-to-Telephone Interface \$1,920.00
1U Rackmount... ..0801 for single, 0802 for dual \$80.00



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Interfaces • Digital

Graham Patten DATS-10 AES to DATS Source Converter & DATS-21 DATS to AES Destination Converter



The AES digital audio standard calls for a balanced, 110 ohm signal over twisted pair wire up to 100 meters, but crosstalk and radiation can occur with poorly constructed input stages and output drivers. By treating this signal like a video signal, Graham-Patten's DATS-10 (Digital Audio Transmission System) converts the AES signal (balanced 3-10 volts) to an unbalanced, 1 Vpp DATS format through the use of tiny transformers within the XLR connector itself, up to 1500 feet over RG-59 cable. The DATS-20 then converts the DATS signal back to an AES signal.

DATS-10 (AES to DATS source converter) \$50
DATS-21 (DATS to AES destination converter) \$50

Z-Systems Sample Rate Converter



The Z-Systems z-2src is a rack-mount sample rate converter which features AES/EBU, S/PDIF, and optical inputs and outputs, the ability to generate 32kHz, 44.1kHz, or 48kHz outputs directly from precise crystal references, or generate any sample rate between 25kHz and 55kHz from an external reference. In addition to serving as a sample rate converter, the z-2src can also be used as a format converter and features an audio bypass switch which leaves the audio data intact, but still allows channel status bits to be manipulated. Input resolution is up to 20-bits with output resolution 24-bits. The z-3src has the same features as the z-2src, but can handle 24-bit inputs from 32kHz up to 96kHz input and output sample rates. Go from 44.1kHz to 96kHz or 96kHz to 44.1kHz in a single pass. The z-3src includes an output dither control which allows the user to output 16, 20 or 24-bits.

z-2src \$1,200.00
z-3src \$1,500.00
L \$450.00
L+ \$599.00

For those needing sample rate conversion only, Z-Systems has designed the z-link and the z-link+, low-cost, compact, real-time sample rate converters. Both feature the same high quality audio path as the z-2src sample rate converter in a hand-held package. The z-link+ adds an external synchronization loop, which allows it to have its output sample rate locked to an external AES/EBU or S/PDIF digital audio signal. Both feature a professional/consumer output switch which allows the user to set the output channel status as desired. The audio specifications are identical to the z-2src. Input and output connectors are transformer isolated coaxial (RCA or BNC).



Interfaces • Digital

Benchmark AD2008



Benchmark AD2408-96C



Benchmark ADA2008



Lucid AD/DA9624



Digital Interfaces A/D-D/A Converters	A/D	D/A	Processor	Analog I/O	Note 1 Digital I/O	Gain Adjust	Sample Rate/kHz	Level Meters	# of Ch.	Note 2 Power Supply	Rack Mount	Options/Features	Price	
Benchmark AD2004	Yes	—	20-bit	XLR	X/B	—	28k-54k	Yes	4	B	RM-1L \$50	Model AD2404-96 has Selectable Bit-Length Words For All Benchmark Units: Specify: AES-3 or AES-3id Optional: PS-202D Redundant/Dual Power Supply (Powers up to 20 1U Converters) \$1550	\$2,200.00	
Benchmark AD2008	Yes	—	20-bit	XLR	X/B	—	28k-54k	Yes	8	A2	1U		\$3,950.00	
Benchmark AD2404-96	Yes	—	24-bit	XLR	X/B	—	44.1/48 88.2/96	Yes	4	A2	1U		\$2,795.00	
Benchmark AD2408-96	Yes	—	24-bit	XLR	X/B	—	44.1/48 88.2/96	Yes	8	A2	1U		\$4,995.00	
Benchmark ADA2408	Yes	Yes	20-bit	XLR	X/B	—	28k-54k	Yes	8	A2	1U		\$4,200.00	
Benchmark DAC2004	—	Yes	20-bit	XLR	X/B	—	44.1/48	Yes	4	B	RM-1L \$50		\$2,200.00	
Benchmark DAC2008	—	Yes	20-bit	XLR	X/B	—	44.1/48	Yes	8	A2	1U		\$4,200.00	
Graham Patten ADC-20/44	Yes	—	20-bit	XLR	X/B	Yes	44.1/48	Yes	2	Opt B \$20	RT-2 \$449		\$599.00	
Graham Patten DAC-20	—	Yes	20-bit	XLR	X/B	Yes	30k-50k	—	2				\$599.00	
Lucid ADA8824 (Sonic)	Yes	Yes	24-bit	XLR	X/R/A	Yes	32k-48k	Yes	8	A2	2U		External Sync	\$2,495.00
Lucid AD9624	Yes	—	24-bit	XLR	X/R/T	Yes	32k-96k	Yes	2	B	RM-4 \$39 FP-4 \$59	External Sync & Noise Shaping	\$899.00	
Lucid DA9624	—	Yes	24-bit	XLR	X/R/T	Yes	32k-96k	Yes	2	B		Headphone Jack	\$749.00	
Lucid ADA1000	Yes	Yes	20-bit	XLR	X/R	A/D Only	32k-48k	Yes	2	B	1U	External Sync	\$599.00	
Panasonic AD96	Yes	—	24-bit	XLR	X/A	—	44.1/48 88.2/96	Yes	8	A	1U	Precision meter circuit w/selectable reference levels	\$2,195.00	
Panasonic AD96M	Yes	—	24-bit	XLR	X/A	—	44.1/48 88.2/96	—	8	A	1U	48V Phantom Power individually switched	\$2,495.00	
Panasonic DA96	—	Yes	24-bit	XLR	X/A	—	44.1/48 88.2/96	—	8	A	1U	Add more outputs to digital mixers for live or recording	\$2,495.00	
Troisi DC224ADC	Yes	—	24-bit	XLR	X/R/T	Yes	32k-48k	Yes	2	B	Opt \$55	16, 20 & 24-Bit Dithering External Word Clock Sync External AES Sync	\$2,050.00	
Troisi DC224DAC	—	Yes	24-bit	XLR	X/R/T	Yes	32k-100k	—	2	B			—	\$1,750.00
Troisi DC8-24ADC	Yes	—	24-bit	XLR	X	Yes	44.1-96	Yes	8	A		1U	Same As Above Options	\$3,920.00
Troisi DC8-24DAC	—	Yes	24-bit	XLR	X	Yes	32k-100k	—	8	A	1U	—	\$3,560.00	
Ward Beck POD13	—	Yes	24-bit	Screw Terminal	X	Yes	30k-50k	—	2	A	RMK-1 or 2	2 AES into 4 analog outputs. Available in 75 Ohm or 110 Ohm	\$495.00	
Wohler Panorama ADC-2	Yes	—	20-bit	Phoenix	BNC (75 Ohm) Phoenix (110 Ohm)	—	32k-48k	Signal Presence LED	4	A	Yes	ADC/DAC/ADAC units come standard with 75 Ohm BNC I/O. Phoenix connectors for 110 Ohm I/Os. 4 Analog into 2 AES outputs 8 Analog into 4 AES outputs 16 Analog into 8 AES outputs 2 Analog into 4 AES outputs 4 Analog into 8 AES outputs 8 Analog into 16 AES outputs 4 Analog into 2 AES outputs & 2 AES into 4 analog outputs 8 Analog into 4 AES outputs & 4 AES into 8 analog outputs	\$1,100.00	
Wohler Panorama ADC-4	Yes	—	20-bit	Phoenix		—	32k-48k		8	A	Yes		\$1,750.00	
Wohler Panorama ADC-8	Yes	—	20-bit	Phoenix		—	32k-48k		16	A	Yes		\$3,500.00	
Wohler Panorama DAC-2	—	Yes	20-bit	Phoenix		Yes	32k-48k		4	A	Yes		\$1,100.00	
Wohler Panorama DAC-4	—	Yes	20-bit	Phoenix		Yes	32k-48k		8	A	Yes		\$1,750.00	
Wohler Panorama DAC-8	—	Yes	20-bit	Phoenix		Yes	32k-48k		16	A	Yes		\$3,500.00	
Wohler Panorama ADAC-2-2	Yes	Yes	20-bit	Phoenix		Yes	32k-48k		4	A	Yes		\$1,750.00	
Wohler Panorama DAAC-4-4	Yes	Yes	20-bit	Phoenix		Yes	32k-48k		8	A	Yes		\$3,500.00	
Key —	Note 1 — Digital I/O X=XLR (AES3/110) R=RCA (S/PDIF Coaxial) T=Toslink (S/PDIF Optical) A=ADAT "LightPipe"					Note 2 — Power Supplies A=Internal 110V A2=Internal 110/220V B=External Wall Adapter								

Lucid ADA1000



Graham Patten DAC



Troisi 224ADC



Graham Patten ADC



Ward Beck POD13

Interfaces • Level

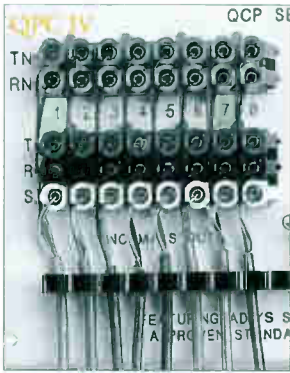


Level Interfaces	I/O IHF	PRO I/O	I/O Level Adjust	BI-Directional	Power Supply	Rack Mount	Features & Options	Price
Aphex 124A	RCA	XLR	Yes	Yes	100/120/220/240	44-0085A \$29.95	Servo-Balanced I/O	\$229.00
ATI MM100	RCA	XLR	Yes	Yes	115/230	20273-501 S/D \$28	Transformer Balanced	\$339.00
ATI DP100	RCA	XLR	Yes	IHF to Bal.	115/230		Transformer Balanced	\$299.00
ATI BI100	RCA	XLR	Yes	Yes	Opt. WA100-1 24Vdc \$13 Drives Multiple Units	S/D/T \$22/\$25/\$30	20602-1 DC Power Cable to Loop Through the DC Power, 13" w/ DC Plugs on Each End \$3.50	\$235.00
ATI UB400	RCA	XLR	Yes	IHF to Bal.				\$259.00
ATI BU400	RCA	XLR	Yes	Bal. to IHF	\$229.00			
ATI MMA400-1	BS	BS	Yes	—	115/230	1U	4 Mic to Line, Xfmr. Balanced	\$589.00
ATI MMA400-2	BS	BS	Yes	—	115/230	1U	4 Mic to Line, Active Balanced	\$479.00
ATI MMA800-1	BS	BS	Yes	—	115/230	1U	8 Mic to Line, Xfmr. Balanced	\$899.00
ATI MMA800-2	BS	BS	Yes	—	115/230	1U	8 Mic to Line, Active Balanced	\$699.00
ATI MLA400-1	BS	BS	Yes	—	115/230	1U	4 Line to Line, Xfmr. Balanced	\$569.00
ATI MLA400-2	BS	BS	Yes	—	115/230	1U	4 Line to Line, Active Balanced	\$399.00
ATI MLA800-1	BS	BS	Yes	—	115/230	1U	8 Line to Line, Xfmr. Balanced	\$829.00
ATI MLA800-2	BS	BS	Yes	—	115/230	1U	8 Line to Line, Active Balanced	\$629.00
Benchmark Audio World Interface	RCA	XLR	Yes	Yes	Wall Adapter	RM-2 \$35 Filler Panel \$15	Selectable Dual Mono Out & L/R Reverse	\$225.00
Benchmark DIA-1-6	Circuit Bd.	XLRF	Fixed -6dBu	—	±9 -22Vdc	Circuit Card on XLRF	Available in +18 -44Vdc	\$48.00
Benchmark DOA-3	Circuit Bd.	XLRM	Yes	—	±9 -22Vdc	Circuit Card on XLRM	Available in +18 -44Vdc	\$48.00
Benchmark DOM-3	Circuit Bd.	Euro	Yes	—	±9 -22Vdc	Circuit Card on XLRM	Output Is a Mono Sum	\$48.00
Benchmark Junior Audio Director	—	Euro	Yes	—	Wall Adapter	RM-1 hold 3 \$25 Filler \$6	Selectable Output for L, R, Reverse, Stereo and Mono	\$350.00
Benchmark Junior Audio Director Plus™	—	Euro	Yes	—	Wall Adapter	RM-2 hold 2 \$35 Filler \$15	H/P Amp w/Level Control Select 4 Stereo or 8 Mono Sources	\$550.00
Broadcast Tools IPC-1	RCA	Euro	Yes	Yes	Wall Adapter	Hold 2 Units 3U RM-2 \$49 1U RM-3 \$49	Active Balanced I/O	\$169.00
Broadcast Tools IPC-2	RCA	Euro	Yes	—	—	—	Dual Stereo IHF to PRO IHF	\$169.00
Dixon LM100B-1	RCA	Euro	Yes	Yes	120Vac	1U	—	\$125.00
Dixon LM100B-2	RCA	Euro	Yes	Yes	120Vac	1U	Dual Version of LM100B-1	\$240.00
ESE 244	RCA	XLR	Yes	Yes	117Vac	P1 or P2 \$50	Opt. 220Vac \$30	\$185.00
Excalibur IA-1	RCA	Euro	Yes	Yes	Wall Adapter	RM-1 \$22	Included Angle Brackets	\$180.00
Excalibur CD-1	RCA	BS	Fixed	—	Passive	RM-1 \$22	Included Angle Brackets	\$99.00
Excalibur CD-2	RCA	BS	Fixed	—	Passive	RM-1 \$22	Dual Stereo IHF to PRO IHF	\$180.00
Henry Matchbox	RCA	XLR	Yes	Yes	115/230	Portable	3A AC Outlet Provided	\$195.00
Henry PortaMatch	RCA	XLR	Yes	Yes	±9Vdc	Portable	Operates on two 9V Batteries	\$195.00
Henry TwinMatch	BS	BS	Yes	—	115/230	Portable	Dual Stereo IHF to PRO I/F	\$195.00
Radio Design Labs RU-LA2D	RCA	XLR	Yes	Yes	Opt. PS-24A \$18	RU-RA5 \$30 Filler Panel \$15	1RU x1 /3RW	\$274.00
Rane BB22	RCA	XLR	Fixed 11-8dB	—	Passive	Portable	Nickel Core "80" Ni Transformers	\$175.00
Rane BB44X Balance Buddy	RCA	XLR	Fixed 11-8dB	Yes	Passive	1U	Nickel Core "80" Ni Transformers	\$299.00
Russ Friend & Assoc. CD100+ X	RCA	BS	Yes	—	Wall Adapter	Portable	Stereo IHF to PRO	\$99.00
sbs Line-IT	—	XLR	Yes	No	115/230	Metal Case/Cabinet Mt.	Dual Channel, mono sum or M+S, Opt. 1U RM \$35 & 5-Year Warranty	\$239.00
sbs Match-IT	RCA	XLR	Yes	Yes	115/230	Metal Case/Cabinet Mt.	Opt. 1U RM \$35 & 5-Year Warranty	\$195.00
sbs Match-IT2	RCA	XLR	Yes	No	115/230	Metal Case/Cabinet Mt.	Dual Stereo IHF to PRO I/F; Opt. 1U RM \$35 & 5-Year Warranty	\$195.00
Symetrix 303	RCA	XLR	Fixed 12dB	Yes	Wall Adapter	RM Tray \$39	Stereo XLR & RCA I/Os	\$199.00
Tascam LA-40MKII	RCA	XLR	Yes	Yes	120Vac	1U	Grnd. Lift Switches AC Outlet	\$475.00
Ward Beck POD1	RCA	XLR	Yes	Yes	115/230	RMK-1 or 2	Single Stereo IHF to Pro I/F	\$285.00

Note - BS=Barrier Strip



ADC's Pro Patch™ Mark IV Patchbays and Broadcast Jackfields

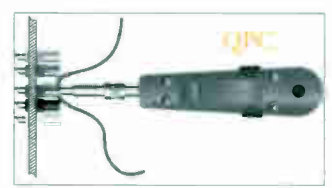
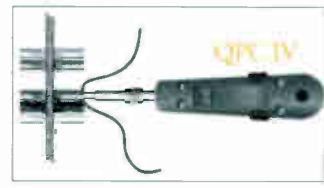


ADC's Pro Patch™ Mark IV patchbays and broadcast jackfields incorporate the exclusive, patented QCP IV split cylinder "punch down" termination system. With QCP, changes in normalizing configurations or movement of the patch panel can be accomplished in minutes, and individual circuits can be changed more quickly than connectorized systems. At the heart of the Mark IV Series is the new QCP IV system which uses single 1x8 blocks that replace the individual insulators of the original QCP system. QCP IV 1x8 blocks are more robust than the individual blocks of the original QCP, but retain all of the benefits such as "gas tight" termination and 200 insertion/

punching, saves time! Pro Patch Mark IV patchbays incorporate QCP IV terminations while Pro Patch Mark II incorporate individual QCP terminations on the self-contained patchbay's backplane. In broadcast jackfields, QCP or QCP IV terminations are mounted to an Ultra Patch™ panel at the end of a prewired umbilical cable. The Ultra Patch panel can be mounted anywhere in the rack, allowing further flexibility in system access and configuration.

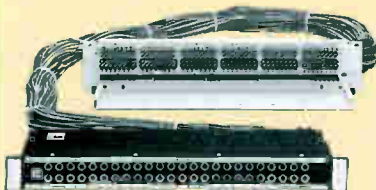


Pro Patch Mark IV patchbays and broadcast jackfields feature the new QCP IV punchdown system, drop down adjustable cable bars and white backplane making it easier to see circuits in dark racks. Each Pro Patch panel is loaded with the highest quality frame type jacks featuring ADC's "crossbar" self cleaning jacks. All Pro Patch panels are powder coated for exceptional durability and come with standard horizontal and vertical designation strips.



withdrawals. The new block design is round which eliminates the necessity to orient the tool during punching. QCP IV 1x8 blocks easily terminate eight circuits of 22-26 (.4mm to .79mm) gauge stranded, or solid wire providing greater reliability and flexibility over time. The new QCP IV blocks are insulated on both sides of the panel providing a "dead front" for easier installation on the rear side, and elimination of short circuits. The new block design makes it easy to prelace wires prior to punching, for quicker, one-handed setups. In addition, up to three wires (24-26 gauge) can be punched in the same contact, making circuit wiring simpler. Deeper channels between the blocks accept up to four wires for superior strain relief and cable management. Blocks are also color-coded for easy identification. The non-oriented self-cutting punch down system terminates and cuts the excess wire in one easy punch. The new QB-4T punch tip can be used in existing QB-2 punch tools, and, because it does not require orientation before

ADC Broadcast Jackfields



Shown are some of the more common Patchbay Prices.

- Normally Out
- BJF103-4MKIV \$915.00
- BJF103-4MKII26* \$975.00
- BJF203-4MKIV \$915.00
- BJF203-4MKII26* \$975.00
- BJF303-4MKIV \$1,500.00
- BJF403-4MKIV \$1,500.00

- Normals Strapped (Fully Normalled)
- BJF107-4MKIV \$750.00
- BJF107-4MKII26* \$810.00
- *2x26 are not available in MKIV configuration

Use the tables below to find the product number.

Panel Style/Height- Choose 1, 2, 3 or 4 for Slot #1	
1	1RU 1.75" (44mm) Longframe Jacks
2	2RU 3.5" (88mm) Longframe Jacks
3	1RU 1.75" (44mm) Bantam Jacks
4	2RU 3.5" (88mm) Bantam Jacks
Circuit Configuration- Choose 03, 07, 00 or 04 for Slot #2	
03	Normals brought out to UP Panel
07	Normals strapped or half normalled at jacks to UP Panel
00	Normals brought out to Stub End
04	Normals strapped at jacks to Stub End

Length of Umbilical- Choose 4 or Custom Length for Slot #3	
4	Normals strapped at jacks to Stub End
*	Specify custom length
Panel Series- Choose II or IV for Slot #4	
II	Normals brought out to UP Panel
IV	Normals strapped or half normalled at jacks to UP Panel
Custom Configurations- Choose 26, BG, HN or SN for Slot #5	
26	2x26 array of Longframe Jacks
BG	Bussed Grounds
HN	Half Normalled
SN	Sleeve Normals Out

- Normals Strapped (Fully Normalled)
- BJF207-4MKIV \$750.00
- BJF207-4MKII26* \$810.00
- BJF307-4MKIV \$1,300.00
- BJF407-4MKIV \$1,300.00
- Half Normalled
- BJF407-4MKIVHN \$1,300.00
- Sleeve Normals Strapped Out
- BJF203-4MKIVSN \$1,050.00
- BJF403-4MKIVSN \$1,724.00

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www.broadcastdealer.com



Broadcasters General Store

2840 S. E. 52nd Street
Ocala, Florida 34480-7500

1-352-622-7700

Interfaces • Patchbay

Use the tables below to find the product number.

PPA1 14MKII26ENS*
PPB3 14MKIVNS

Jack Type- Choose A, S or B for Slot #1	
A	Longframe Audio Jack
S	Stereo Spaced Longframe Jack
B	Bantam Audio Jacks
Panel Height- Choose 1 or 3 for Slot #2	
1	1 rack space 1.75" (44mm)
3	2 rack space 3.5" (88mm)
Chassis Depth- Choose 14 or 18 for Slot #3	
14	14" (350mm)
18	18" (450mm)
Panel Series- Choose II or IV for Slot #4	
II	QCP Individual Insulators
IV	QCP IV 1x8 Blocks

Connector Type- Choose E, A or H for Slot #5	
Leave Blank	QCP
E	EDAC/ELCO Connector
A	AMP Connector
H	Header Pin Connector
Circuit Configuration- Choose NS, NO, HN or SN for Slot #6	
NS	Normals Strapped
NO	Normals Out
HN	Half Normalled
SN	Sleeve Normals Out
Custom Configurations- Choose 26 or BG for Slot #7	
26	2x26 Array of Longframe Jacks
BG	Bussed grounds

ADC Pro Patch Patchbays



Shown are some of the more common Patchbay Prices.

Normals Out		PPA1-14MKII26ENS* \$815.00	PPB3-14MKIVHN \$1,250.00
PPA1-14MKIIINO \$900.00	PPA3-14MKIIANS \$700.00	PPB3-14MKIIAHN \$1,200.00	PPB3-14MKIIIEHN \$1,255.00
PPA3-14MKII26NOBG* \$985.00	PPB1-14MKIIENS \$1,255.00	PPB3-14MKIIIEHN8BG \$1,280.00	
PPA3-18MKII26NO* \$960.00	PPB3-14MKIIANS \$1,200.00		
PPA3-18MKIVNO \$900.00	PPB3-14MKIIENS \$1,255.00	No Normals	
PPA3-14MKII263ENO* \$965.00		PPA1-14MKIVNN \$650.00	PPA1-14MKII24ENN \$655.00
PPA3-14MKII3ENO* \$905.00		PPB3-14MKIVNN \$1,100.00	
Normals Strapped (Fully Normalled)		Stereo Normals Strapped Out	
PPA1-14MKIVNS \$750.00	PPA1-14MKIVHN \$750.00	PPA3-14MKIIIVSN \$1,000.00	PPA3-14MKII26SN* \$1,060.00
PPA1-14MKII26ENS* \$815.00	PPA1-14MKII26HN* \$810.00		
PPA3-14MKIVNS \$750.00	PPA3-14MKIVHN \$750.00		
PPA3-18MKIVNS \$750.00	PPA3-18MKIVHN \$750.00		
PPA3-14MKII26NS* \$810.00	PPA3-14MKII26EHN* \$815.00		
	PPB1-14MKIIIEHN \$1,255.00		

*2x26 are not available in MKIV configuration

ADC Patchbay Kits



ADC Pro Patch Kits offer a cost-effective solution to fully wired panels. The Pro Patch Kits come with high quality bantam or longframe jacks pre-mounted in a 19" rack unit panel, ready for wiring. Features include: Jacks have self wiping action for reliability and easy maintenance • Longframe panels have offset ground lugs for easy bussing of grounds • Bantam panels have four removable inserts to allow easy access for wiring • Includes horizontal designation strips • Sturdy cable bar for strain relief and cable management.

Longframe Patch Kits

PPA1 1.75"2x24 Longframe jacks with solder lugs \$230.00	PPA1-HN-CG with half normalled,ground common \$245.00
PPA1-NS-CG with normals strapped,common ground \$245.00	PPA1-26 1.75"2x26 Longframe jacks with solder lugs \$250.00
PPA1-26-HN-CG ... with half normalled,ground common \$280.00	PPA1-26-NS-CG with normals strapped,common ground \$280.00
PPA3 3.5"2x24 Longframe jacks with solder lugs \$230.00	PPA3-HN-CG with half normalled,ground common \$245.00
PPA3-NS-CG with normals strapped,common ground \$245.00	

Bantam Patch Kits

PPB1 1.75"2x48 Bantam jacks with solder lugs \$275.00	PPB1-HN-CG with half normalled,ground common \$295.00
PPB1-NS-CG with normals strapped,common ground \$250.00	PPB3 3.5"2x48 Bantam jacks with solder lugs \$275.00
PPB3-HN-CG with half normalled,ground common \$295.00	PPB3-NS-CG with normals strapped,common ground \$280.00

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Interfaces • Patchbay

ADC DAL 107-4MKIV



ADC Digital Audio Jackfields

ADC's Digital Audio Jackfields are designed for patching AES/EBU digital audio signals. The normals strapped or half-normalled panels are used to patch AES digital audio signals up to a total circuit length of 300' (91.5m). Precision 110Ω impedance, low capacitance, shielded twisted pair cable is used to meet stringent AES standards for digital audio transmission lines. All digital jackfields and the associated patch cords meet this requirement to ensure error free transfer of the digital data.

ADC DAB3-14MKIENS



Use the tables below to find the product number.

Jack Type- Choose L or B for Slot #1	
L	Longframe Audio Jacks
B	Bantam Audio Jacks
Panel Height- Choose 1 or 3 for Slot #2	
1	1RU 1.75" (44mm)
3	2RU 3.5" (88mm)
Chassis Depth- Choose 14 or 18 for Slot #3	
14	14" (350mm)
18	18" (450mm)
Panel Series- Choose II or IV for Slot #4	
II	QCP Individual Insulators
IV	QCP IV 1x8 Blocks

DA 107 4 MK IV
DA _____ MK _____

Connector Type- Choose Blank, E, A or H for Slot #5	
Leave Blank	QCP Punchdown
E	EDAC/ELCO Connector
Circuit Configuration- Choose NS, HN or NO for Slot #6	
NS	Normal Strapped
HN	Half Normalled
NO	Normals Out
Custom Configurations- Choose 26 or BG for Slot #7	
26	2x26 Array of Longframe Jacks (QCP MKII Only)
GB	Bussed Grounds

Shown are some of the more common Jackfield Prices.

Pro Patch Jackfields

DAB1-14MKIVNN148	\$880.00
DAB3-14MKIENS	\$1,355.00
DAB3-14MKIVHN	\$1,350.00
DAB3-14MKIVNS	\$1,350.00
DAL1-14MKII26ENS*	\$865.00
DAL3-14MKIVHN	\$800.00
DAL3-14MKIVNS	\$800.00

Broadcast Jackfields

DAL107-4MKIVHN	\$800.00
DAL107-4MKIV	\$800.00
DAB307-4MKIV	\$1,350.00
DAL207-4MKIV	\$800.00
DAB407-4MKIV	\$1,375.00

ADC POP Pull-out Panel

ADC's exclusive pull-out version of the popular Pro Patch™ audio panel is designed for truck and studio applications where front access to terminations is needed. The panel slides the jacks and termination's forward, out from the front of the rack, providing access to the QCP termination's mounted to the bottom of the panel tray. Rear cable management options have



been included to allow for either center, left or right side mult installations. The chassis is made of heavy-duty .090" steel and includes an access hole to the bottom of the QCP termination's for easy changes and maintenance. Rear rack support bars are included for extra stability when the panel slides forward.

Use the tables below to find the product number.

POP 26 E
POP _____ E

Jack Type- Choose B or L for Slot #1	
B	Bantam Audio Jacks
L	Longframe Audio Jacks
Panel Height- Choose 1 or 2 for Slot #2	
1	1RU 1.75" (44mm)
2	2RU 3.5" (88mm)

Termination Type- Choose E or blank for Slot #3	
E	Bantam Audio Jacks
Leave Blank	Longframe Audio Jacks
Circuit Configuration- Choose HN, NS, NO, SN or NN for Slot #4	
HN	Half Normalled
NS	Normals Strapped
NO	Normals Out
SN	Sleeve Normals
NN	No Normals

Shown are some of the more common Panel Prices.

BPOP1-ENO	\$1,605.00	LPOP2-NO	\$1,100.00
BPOP1-HNBN	\$1,425.00	LPOP2-NS	\$950.00
BPOP1-NO	\$1,600.00	BPOP2-HN	\$1,425.00
BPOP1-NS	\$1,425.00	BPOP2-NO	\$1,600.00
LPOP2-HN	\$950.00	BPOP2-NS	\$1,425.00

1-352-622-7700

Interfaces • Patchbay

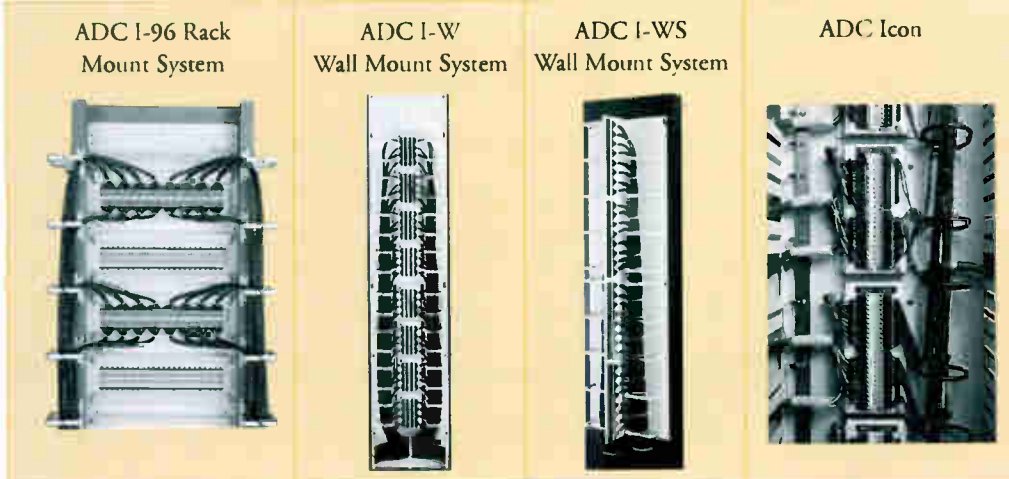
ADC I.C.O.N. Rack Mount System

ADC I.C.O.N. Rack Mount System is an audio cable management system engineered for broadcast, production, recording and professional audio applications. The I.C.O.N. is used as the central termination and

distribution point for the cabling in an audio system. All audio equipment cabling is terminated on the I.C.O.N. and signal routing is accomplished by cross-connecting cable terminations at this central point

rather than point to point interconnections. This saves time and cable, and allows for signal path changes and equipment additions to be made quickly and easily.

There are four types of ICON: The I-96 is a rack mount system, and the I-W and I-WS systems are designed for wall mounting. Both feature, QCP, ADC's proven punch down cable termination system. Connectorized versions of ICON panels are also available. All ICON systems include cable management hardware engineered to ensure that all cabling is routed neatly and securely, and that cross-connects can be changed quickly and efficiently.



I.C.O.N. I-96 System

- I-96 96 circuit termination panel \$200.00
- I-96B 96 circuit termination panel w/rear jumpers \$254.00
- I-FPD Fanning Panel for routing cables horizontally \$75.00
- I-FI Vertical filler panel \$50.00
- I-FPB Fanning Panel for routing cables horizontally and vertically \$105.00
- I-VR Vertical ring bracket \$31.00
- I-ET3 Horizontal express trough-3.5" \$70.00
- I-ET5 Horizontal express trough-5.25" \$70.00

I.C.O.N. I-W Systems

- I-WA Wall mount frame with 4 I-24A Blocks \$680.00
- IWB Wall mount frame with 4 I-24B Blocks \$660.00
- I-WFP ... Fanning Panel, to route cabling between above frames \$70.00
- I-24A QCP Termination Block, terminates and cross-connects 24 balanced audio circuits; each circuit appears on two arrays (left and right) of QCP on each block and are jumpered on the rear of the block; shield terminals are mulded together and brought out to an insulated terminal post on the side of the block to allow grounding of the system to a common point \$128.00
- I-24B Same as above with floating shield terminals \$120.00
- I-24C Same as above with floating shield terminals and no rear jumpers \$110.00
- I-24R I-24 rack mounting rails \$30.00

I.C.O.N. I-WS Systems

- I-WS Terminates and cross connects 192 balanced audio circuits \$599.00
- I-WSSET . Express trough \$70.00

ADC Video ICON



The ADC Video ICON makes installations of coaxial cable cleaner. The VI-24 is a central distribution panel with 24 high-quality, true 75Ω bulkhead feed-through connectors mounted to a durable power-coated steel panel with a cable trough.

- VI-12 2U, 12 Circuit BNC Bulkhead Panel \$187.00
- VI-132BK 1U, 32 Circuit BNC Bulkhead Panel \$385.00
- VI-24 2U, 24 Circuit BNC Bulkhead Panel \$280.00
- VI-24S 2U, Left Hinged BNC Bulkhead Panel \$330.00
- VI-24VHR 2U, 24 Circuit BNC Bulkhead Panel w/vertical rings \$280.00
- VIW-24 24 Circuit Wall Mt. BNC Bulkhead Panel \$280.00
- VIW-424 96 (4x24) Circuit Wall Mt. BNC Bulkhead Panel \$1,152.00
- VIW-64 64 (2x32) Circuit Wall Mt. BNC Bulkhead Panel \$819.00
- VIW-72 72 Circuit Wall Mt. BNC Bulkhead Panel \$900.00
- VIW-8 8 Circuit Wall Mt. BNC Bulkhead Panel \$150.00
- VIW-96 96 Circuit Wall Mt. BNC Bulkhead Panel \$1,152.00



Broadcasters General Store Hotlinks to Vendors @

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Interfaces • Patchbay



ADC Pro Patch Audio Patch Cords

Use the tables below to find the product number.

Color- Choose R, G, B or BK for Slot #1	
R	Red
G	Green
B	Blue
BK	Black

Cable Length- Choose 2, 3, 4 or 6 for Slot #2	
2	2' (.6m)
3	3' (.9m)
4	4' (1.2m)
6	6' (1.8m)

Plug Type- Choose Blank or B for Slot #3	
Leave Blank	Longframe Jack
B	Bantam Plug

Shown are some of the more common Audio Patch Cords Prices.

Length	Red	Green	Blue	Black	Price
1'	R1	G1	B1	BK1	\$21.43
2'	R2	G2	B2	BK2	\$22.23
3'	R3	G3	B3	BK3	\$23.04
4'	R4	G4	B4	BK4	\$23.84
6'	R6	G6	B6	BK6	\$25.46

Long Frame Dual

Length	Red	Green	Blue	Black	Price
2'	R22	G22	B22	BK22	\$46.30
3'	R32	G32	B32	BK32	\$47.11
4'	R42	G42	B42	BK42	\$47.92
6'	R62	G62	B62	BK62	\$49.53

Bantam Single

Length	Red	Green	Blue	Black	Price
1'	R1B	G1B	B1B	BK1B	\$16.90
2'	R2B	G2B	B2B	BK2B	\$17.71
3'	R3B	G3B	B3B	BK3B	\$18.51
4'	R4B	G4B	B4B	BK4B	\$19.32
6'	R6B	G6B	B6B	BK6B	\$20.94

Bantam Dual

Length	Red	Green	Blue	Black	Price
2'	R22B	G22B	B22B	BK22B	\$39.71
3'	R32B	G32B	B32B	BK32B	\$40.52
4'	R42B	G42B	B42B	BK42B	\$41.33
6'	R62B	G62B	B62B	BK62B	\$42.94

ADC Humbucker

The ADC Humbucker eliminates 99.6% of a 10Vp-p, 50/60Hz ground induced hum in a 200' RG59 B/U coax run. The actual amount of hum reduction depends on cable length, cable type, ground loop potential and ground loop frequency.

HUM-1 \$147.00



ADC QCP Replacement Kit



QCP Tools and Accessories

QCP Tools (QB-2 and QB-4 are identical, tips are different)

- QB-2 Impact Tool for MKII panels \$75.00
- QB-4 Impact Tool for MKIV panels \$75.00
- QB-2T Replacement tip for QB-2 \$21.00
- QB-2LT Longer replacement tip for QB-2 \$21.00
- QB-4T Replacement tip for QB-4/QB-2 \$21.00
- Q-115 Manual tool (no spring loaded mechanism) for MKII \$27.00
- QDF-114 Manual tool for MKIV panels \$16.00

QCP Replacement Kit

- QRK-25 25 red, white & black ACP housing; 12 blue and orange housing; 100 split cylinder contacts \$30.00
- QRK-25-MKIV 10 red, white, black, blue & orange loaded 1x8 QCP IV housings and contacts \$30.00

Sleeving Kit

- SLVG-1 includes 100 pieces of 2.5" pvc clear \$3.00

ADC EDAC Mating Connector Kit



- EDAC-90P-SHELL . 1 shell and 90 crimp type pins \$90.00
- EDAC-38F-SHELL . 1 shell and 38 crimp type pins \$50.00
- EDAC-3F-SHELL... 1 shell and 3 crimp type pins \$2.85



ADC Pro Patch Cord Holder

PPH Holds up to 75 video or audio patch cords, RM or wall mt., 14"x3.5"D \$25.00

BNC Installation Tool



- BT2000 BNC Insertion/Removal Tool, 12.5" long \$55.00
- BT2000/24 BNC Insertion/Removal Tool, 24" long \$60.00

ADC Video Patch Cords

Video to Video

Video to BNC



ADC High Definition Video Patch Cords

Standard Patch Cords

Length	Red	Green	Blue	Black	Price
2'	R2V-STV	G2V-STV	B2V-STV	BK2V-STV	\$19.50
3'	R3V-STV	G3V-STV	B3V-STV	BK3V-STV	\$20.00
4'	R4V-STV	G4V-STV	B4V-STV	BK4V-STV	\$20.50
6'	R6V-STV	G6V-STV	B6V-STV	BK6V-STV	\$21.00

Standard Patch/BNC Cords

Length	Red	Green	Blue	Black	Price
2'	R2V-STV-B	G2V-STV-B	B2V-STV-B	BK2V-STV-B	\$18.50
3'	R3V-STV-B	G3V-STV-B	B3V-STV-B	BK3V-STV-B	\$19.00
4'	R4V-STV-B	G4V-STV-B	B4V-STV-B	BK4V-STV-B	\$19.50
6'	R6V-STV-B	G6V-STV-B	B6V-STV-B	BK6V-STV-B	\$20.00

Midsize Patch Cords

Length	Red	Green	Blue	Black	Price
2'	R2V-STM	G2V-STM	B2V-STM	BK2V-STM	\$20.50
3'	R3V-STM	G3V-STM	B3V-STM	BK3V-STM	\$21.00
4'	R4V-STM	G4V-STM	B4V-STM	BK4V-STM	\$21.50
6'	R6V-STM	G6V-STM	B6V-STM	BK6V-STM	\$22.00

Midsize Patch/BNC Cords

Length	Red	Green	Blue	Black	Price
2'	R2V-STM-B	G2V-STM-B	B2V-STM-B	BK2V-STM-B	\$19.50
3'	R3V-STM-B	G3V-STM-B	B3V-STM-B	BK3V-STM-B	\$20.00
4'	R4V-STM-B	G4V-STM-B	B4V-STM-B	BK4V-STM-B	\$20.50
6'	R6V-STM-B	G6V-STM-B	B6V-STM-B	BK6V-STM-B	\$21.00

ADC's ProAx™ Triaxial Camera Connectors

ADC's ProAx™ Triaxial Camera connectors have field repairable center conductors that eliminate the need to restrip. O-rings that provide superior sealing against moisture, and compatibility with the tools you already own (they can be assembled using off-the-shelf tools). Panel mounting kits and interior repair kits are available.



Use the tables below to find the product number.

Jack Size- Leave Blank or add M for Slot #1		#1	#2	#3	#4	#5
Leave Blank	Standard Size	—	—	—	—	—
M	Midsize					
Color- Choose R, G, B or BK for Slot #2		Cable Length- Choose for Slot #3		Plug Type- Choose V, V-B or V-B/B for Slot #4		
R	Red	2	2' (.6m)	VX	Coax to Coax Plug	
G	Green	3	3' (.9m)	VX-B	Coax Plug to BNC Connector	
B	Blue	4	4' (1.2m)	V-B/B	BNC to BNC Connector	
BK	Black	6	6' (1.8m)			

Shown are some of the more common Video Patch Cords Prices.

Video Patch Cords

Length	Red	Green	Blue	Black	Price
1'	R1VX	G1VX	B1VX	BK1VX	\$16.50
2'	R2VX	G2VX	B2VX	BK2VX	\$17.00
3'	R3VX	G3VX	B3VX	BK3VX	\$17.50
4'	R4VX	G4VX	B4VX	BK4VX	\$18.00
6'	R6VX	G6VX	B6VX	BK6VX	\$18.50

Video to BNC Patch Cords

Length	Red	Green	Blue	Black	Price
2'	R2VX-B	G2VX-B	B2VX-B	BK2VX-B	\$16.00
3'	R3VX-B	G3VX-B	B3VX-B	BK3VX-B	\$16.50
4'	R4VX-B	G4VX-B	B4VX-B	BK4VX-B	\$17.00
6'	R6VX-B	G6VX-B	B6VX-B	BK6VX-B	\$17.50

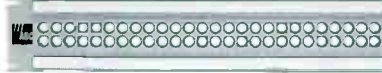
BNC to BNC Patch Cords

Length	Red	Green	Blue	Black	Price
2'	R2V-B/B	G2V-B/B	B2V-B/B	BK2V-B/B	\$19.18
3'	R3V-B/B	G3V-B/B	B3V-B/B	BK3V-B/B	\$19.86
4'	R4V-B/B	G4V-B/B	B4V-B/B	BK4V-B/B	\$20.54
6'	R6V-B/B	G6V-B/B	B6V-B/B	BK6V-B/B	\$21.90

TCP-A12	Male plug for 1/2" A cables (.475)	\$110.00
TCP-B38	Male plug for 3/8" B cables (.360)	\$110.00
TCP-C12	Male plug for 1/2" C cables (.520)	\$110.00
TCP-D38	Male plug for 3/8" D cables (.410)	\$110.00
TCP-E38	Male plug for 3/8" E cables (.315)	\$110.00
TCP-F14	Male plug for 1/4" F cables (.246)	\$115.00
TCJ-A12	Female jack for 1/2" A cables (.475)	\$100.00
TCJ-B38	Female jack for 3/8" B cables (.360)	\$100.00
TCJ-C12	Female jack for 1/2" C cables (.520)	\$100.00
TCJ-D38	Female jack for 3/8" D cables (.410)	\$100.00
TCJ-E38	Female jack for 3/8" E cables (.315)	\$100.00
TCJ-F14	Female jack for 1/4" F cables (.246)	\$105.00

ADC Unloaded Video Panels

PPI226RS



ADC's complete line of unloaded video panels allows you to load a panel and video jack combination to meet your requirements. Pro Patch™ (PPI) panels feature a solid, milled and drilled aluminum face plate with a molded ABS insulator backing plate for the jacks. Professional Video (PV) panels feature a steel chassis with insulated face plate, top cover, side brackets and cable tray that provides superior cable support and strain relief.



PV226B

Empty Unloaded Video Panel Prices

PPI1224RS	1U, 2x24 standard size, gray	\$125.00
PPI1224RS-BK	1U, 2x24 standard size, black	\$125.00
PPI1226RS	1U, 2x26 standard size, gray	\$125.00
PPI1226RS-BK	1U, 2x26 standard size, black	\$125.00
PPI1232RS	1U, 2x32 midsize, gray	\$125.00
PPI1232RS-BK	1U, 2x32 midsize, black	\$125.00
PPI2224RS	2U, 2x24 standard size, gray	\$125.00
PPI2224RS-BK	2U, 2x24 standard size, black	\$125.00
PPI2226RS	2U, 2x26 standard size, gray	\$125.00
PPI2226RS-BK	2U, 2x26 standard size, black	\$125.00
PPI2232RS	2U, 2x32 midsize, gray	\$125.00
PPI2232RS-BK	2U, 2x32 midsize, black	\$125.00
PV224G	2U, 2x24 Professional Video Panel, gray	\$125.00
PV224B	2U, 2x24 Professional Video Panel, black	\$125.00
PV226G	2U, 2x26 Professional Video Panel, gray	\$125.00
PV226B	2U, 2x26 Professional Video Panel, black	\$125.00

ADC Video Jacks

The new Superjack family of BNC self-normalizing video jacks features performance matched for data rates up to and including HDTV in the full uncompressed 1.485 Gbps/sec rate. The standard size SVJ combines the unique features of 2.4GHz bandwidth, sealed switch, and a 75Ω impedance in the patched state when used with ADC's ST series high definition patch cords. The compact MVJ-3 midsize Superjack combines 3.0+ GHz bandwidth, sealed switch and "true" 75Ω impedance in either the normalled through or patched state. Both Superjacks are designed for use in high data rate applications including HDTV, L and S band satellite, D1 digital video and all lower data rate video transmissions including analog base band video.



Midsize Video Jacks

CJ3012N	Single Video Jack, Short Body	\$22.00
CJ4012N	Single Video Jack, Long Body	\$24.00
CJ3011N-75 ..	Single Video Jack, Short Body, 75Ω Terminated	\$27.00
CJ4011N-75 ..	Single Video Jack, Long Body, 75Ω Terminated	\$29.00
MVJ-3	Dual Self-Normalizing Super Video Jack	\$39.00
MVJ-3T	Dual Self-Normalizing Super Video Jack, 75Ω Terminated ..	\$45.00

Standard Size Video Jacks

CJ2011N	Single Video Jack	\$12.80
SJ2000G	Dual Self-Normalizing Jack, gold plated body	\$35.00
SJ2000G-75 ..	Dual Self-Normalizing Jack, 75Ω Terminated, gold plated body	\$37.00
SJ2000N	Dual Self-Normalizing Jack	\$30.00
SJ2000N-75 ..	Dual Self-Normalizing Jack, 75Ω Terminated	\$32.00
SVJ-2	Super Video Jack	\$38.00
SVJ-2T	Super Video Jack, 75Ω Terminated	\$44.00

ADC C. A. P. S. Component Analog Patching System

ADC has developed CAPS to provide an error free, flexible patching system for component analog video environments. The CAPS will perform flawlessly in various types of component analog systems including RGB and Y, R-Y, B-Y. Choose from a wide selection of CAPS types: modular patchbays for small systems • fully loaded patchbays for large systems • RGB Plus Sync • and terminated and non-terminated jacks.



CV-8-N Front View



CV-8-N Rear View



CV-6-M



CV-M-N

Loaded Patchbays, (3.5"x19")

CV-8-N	8RGB Groups with SJ2000N jacks	\$1,085.00
CV-8-N75	8RGB Groups with SJ2000N-75 jacks	\$1,175.00
CV-6-NS	6RGB + Sync Groups with SJ2000N jacks	\$1,085.00
CV-6-N75S	6RGB + Sync Groups with SJ2000N-75 jacks	\$1,162.00

Modular Patchbays, (3.5"x19")

CV-CM	Chassis for CV-M-N and CV-M-N75 module, holds 8	\$160.00
CV-M-N	1RGB Groups with SJ2000N jacks	\$135.00
CV-M-N75	1RGB Groups with SJ2000N-75 jacks	\$145.00
CPPV-B	Blank module	\$30.00

Panels without Jacks, (3.5"x19")

CV-8-NJ	8RGB Groups Panel	\$400.00
CV-6-NJ	6RGB + Sync Groups Panel	\$400.00



CV-6S



CV-6-N



CPPV-3

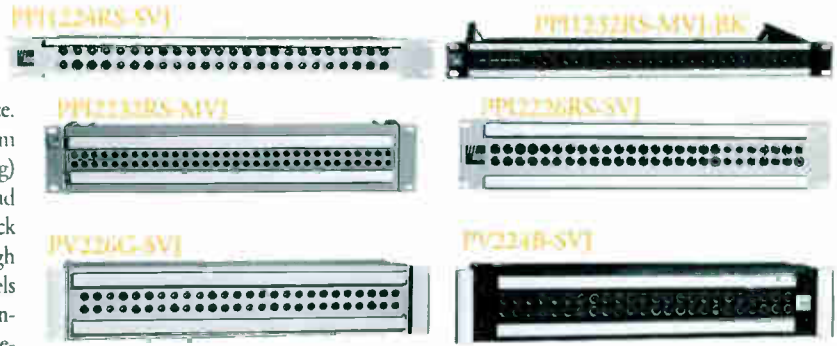
RGB Patch Cords

CVPC-2	2'	\$58.00
CVPC-3	3'	\$58.00
CVPC-4	4'	\$58.00
CVPC-6	6'	\$65.00

Show the way patching on an 8' x 11' patchbay and a single video patch cord. Four group jacks and one sync jack available.

ADC Pro Patch Video Panels

The Professional Video (PV) panels feature a steel chassis with insulated face plate, top cover, side brackets, and cable tray that provides superior cable support and strain relief, as well as maximum jack protection. The PV series also comes standard with vertical designation strips for additional labeling space. Each ADC Pro Patch Video (PPI) features a solid, milled and drilled aluminum faceplate (prevents the rack mounting ears from breaking off during handling) with a molder ABS insulator backing plate for the jacks. Standard Size PV and PPI panels are available with several jack choices including the SVJ-2 Super Jack rated to 2.4Ghz, the SJ2000 rated to 750Mhz and the CJ20011 straight through single rated to 2Ghz. For midsize jacks, the midsize Pro Patch video panels feature rigid welded steel rack mount chassis with a molded ABS jack panel insert. A special adjustable rear cable support bar is provided with holed for tie-wraps to keep coaxial cables in place.



Shown are some of the more Common Pro Patch Video Prices

Video Pro Patch (PPI) Panels

CJ2011N Straight Through Video Jacks

PPI1224RS-CJ48	\$599.00
PPI2224RS-CJ48	\$599.00
PPI1226RS-CJ52	\$652.00
PPI2226RS-CJ52	\$652.00

Video Jacks

SJ2000 Dual Self Normalizing

PPI1224RS-N	\$813.00
PPI1224RS-NBK	\$813.00
PPI1226RS-N	\$865.00
PPI1226RS-NBK	\$865.00
PPI2224GS-N	\$843.00
PPI2224RS-G	\$1,106.00
PPI2224RS-N	\$813.00
PPI2224RS-NBK	\$813.00
PPI2226RS-N	\$865.00
PPI2226RS-NBK	\$865.00
PPI3426RS-N	\$1,730.00

SJ2000-75 Jacks with 75Ω Termination

PPI1224RS-75G	\$1,244.00
PPI1224RS-75N	\$835.00
PPI1226RS-75N	\$892.00

SJ2000-75 Jacks with 75Ω Termination (midsize)

PPI1226RS-75NBK	\$892.00
PPI2224GS-75N	\$865.00
PPI2224RS-75G	\$1,244.00
PPI2224RS-75N	\$835.00
PPI2224RS-75NBK	\$835.00
PPI2226RS-75G	\$1,353.00
PPI2226RS-75N	\$892.00
PPI2226RS-75NBK	\$892.00
PPI3426RS-75N	\$1,784.00

SVJ-2 Super Video Jacks Dual Self Normalizing

PPI1224RS-SVJ	\$1,060.00
PPI1226RS-SVJ	\$1,140.00
PPI2224RS-SVJ	\$1,060.00
PPI2226RS-SVJ	\$1,140.00
PPI3426RS-SVJ	\$2,280.00

SVJ-2T Super Video Jacks with 75Ω Termination

PPI1224RS-SVJT	\$1,200.00
PPI1226RS-SVJT	\$1,290.00
PPI2224RS-SVJT	\$1,200.00
PPI2226RS-SVJT	\$1,290.00
PPI3426RS-SVJT	\$2,580.00

Professional Video Pro Patch (PV) Panels

SJ2000 Dual Self Normalizing Jacks

PV224B-N	\$813.00
PV224G-N	\$813.00
PV226B-N	\$865.00
PV226G-N	\$865.00

SJ2000-75 Self Normalizing with 75Ω Termination

PV224B-75N	\$835.00
PV224G-75N	\$835.00
PV226B-75N	\$892.00
PV226G-75N	\$892.00

SVJ-2 Dual Self Normalizing Super Video Jacks

PV224B-SVJ	\$1,060.00
PV224G-SVJ	\$1,060.00
PV226B-SVJ	\$1,140.00
PV226G-SVJ	\$1,140.00

SVJ-2T Super Video Jacks with 75Ω Termination

PV224B-SVJT	\$1,200.00
PV224G-SVJT	\$1,200.00
PV226B-SVJT	\$1,290.00
PV226G-SVJT	\$1,290.00

PPI Patch Video with Midsize Jacks CJ2011N/4012N Straight Through

PPI1232RS-CJMID	\$1,430.00
PPI1232RS-CJMID-BK	\$1,430.00
PPI2232RS-CJMID	\$1,430.00

CJ2011N-75/4012N-75 Straight Through w/ 75Ω Termination

PPI2232RS-CJTMID	\$1,590.00
PPI2232RS-CJTMID-BK	\$1,590.00

MVJ-3 Dual Self Normalizing Super Video Jack

PPI1232RS-MVJ	\$1,400.00
PPI2232RS-MVJ	\$1,400.00
PPI1232RS-MVJ-BK	\$1,400.00
PPI2232RS-MVJ-BK	\$1,400.00

MVJ-3T Super Video Jacks with 75Ω Termination

PPI1232RS-MVJT	\$1,590.00
PPI1232RS-MVJT-BK	\$1,590.00
PPI2232RS-MVJT	\$1,590.00
PPI2232RS-MVJT-BK	\$1,590.00

ADC VAMP

Video/Audio Modular Patchbays

The Video Audio Modular Patchbay (VAMP™) chassis accommodates up to twenty modules of Longframe, Bantam, dual switching coax to BNC, single coax to BNC jacks, RGB and triax camera connector modules. The VAMP system is the perfect solution for small and medium-sized applications that do not need a single configuration audio or video panel, or where audio, video and data need to be in the same chassis.



VC-1	VAMP 2U chassis, holds 20 modules	\$125.00
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Audio Modules

VA-1	Two Longframe/QCP Jacks, NO	\$45.00
VAB-HN	4 Bantam/QCP Jacks HN	\$85.00
VAB-NN	4 Bantam/QCP Jacks NN	\$79.00
VAB-NS	4 Bantam/QCP Jacks NS	\$85.00
VAB-HND	4 Digital Bantam/QCP Jacks /AES 110Ω Cable NN	\$121.00
VAB-NSD	4 Digital Bantam/QCP Jacks/ AES 110Ω Cable NS	\$121.00

Blank Filler Modules

VB-1	VAMP Blank Filler module	\$3.00
VV-NJ	Blank Video Module, no jacks	\$12.00

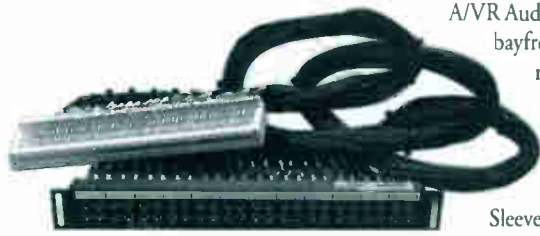
Data Modules

VV-D9	2DSUB9 to DSUB9, 2 spaces	\$124.00
VA-1-RJ	RJ45 to QCP	\$97.00

Video Modules

VV-TRI	1 CJ2065N tri-jack, 2 spaces	\$75.00
VV-MVJ	1 MVJ-3 midsize super video jack	\$44.00
VV-MVJT	1 MVJ-3T 75Ω terminated jack	\$50.00
VV-1	SJ2000N-75 jack 75Ω terminated jack	\$33.00
VV-2	SJ2000N jack	\$35.00
VV-3	CJ2011N jacks	\$45.00
VV-SVJ	SVJ-2 super video jack	\$43.00
VV-SVJT	SVJ-2T 75Ω terminated super video jack	\$49.00
VV-CAPS	RGB video, 3 SJ2000N-75, 3 spaces	\$140.00

A/VR Audio Patching System



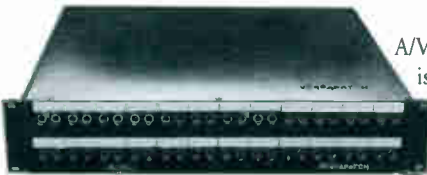
A/VR Audio Patching System™ bayfronts are made of phenolic (non conductive) black thermoset material, with steel mounting brackets. Jacks are Tip-Ring-Sleeve (TRS), with normals on the Tip and Ring connections.

The cable is 22 gauge, stranded, twisted pair with shield and overall shield. Standard cables are 5' in length and exit the patch panel on the left as viewed from the rear. Beyond 5' cable, add \$14.50 per foot additional.

24SR-TRS-BO-SP	\$525.00	52DR-TRS-BO-SP	\$882.00
24SR-TRS-BO-PU	\$432.00	52DR-TRS-BO-PU	\$803.00
24SR-TRS-BO-FB	\$525.00	52DR-TRS-BO-FB	\$882.00
48DR-TRS-AB-SP	\$603.00	52DR-TRS-TRB-SP	\$616.00
48DR-TRS-AB-PU	\$595.00	52DR-TRS-TRB-PU	\$584.00
48DR-TRS-AB-FB	\$603.00	52DR-TRS-TRB-FB	\$616.00
48DR-TRS-BO-SP	\$819.00	96DR-TRS-AB-SP	\$1,102.00
48DR-TRS-BO-PU	\$754.00	96DR-TRS-AB-PU	\$1,061.00
48DR-TRS-BO-FB	\$819.00	96DR-TRS-AB-FB	\$1,102.00
48DR-TRS-TRB-SP	\$603.00	96DR-TRS-BO-SP	\$1,530.00
48DR-TRS-TRB-PU	\$595.00	96DR-TRS-BO-PU	\$1,457.00
48DR-TRS-TRB-FB	\$603.00	96DR-TRS-BO-FB	\$1,530.00
52DR-TRS-AB-SP	\$607.00	96DR-TRS-TRB-SP	\$1,102.00
52DR-TRS-AB-PU	\$582.00	96DR-TRS-TRB-PU	\$1,061.00
52DR-TRS-AB-FB	\$607.00	96DR-TRS-TRB-FB	\$1,102.00

Normals	
BO-	Normal Brought Out
AB-	Normals Strapped at Bay
TRB-	Top Row Normals are Bridged
Terminations	
PU-	"66" Type Punch Block
FB-	Multiflex
S110-	110 Type

A/VR Patching Systems Versapatch II



A/VR Patching Systems Versapatch II is a 2U, chassis-enclosed stereo patch panel. It contains 48 tip-ring-sleeve jacks offset in pairs, configured in two rows.

Versapatch II/FB-AB	Normals Jumpered at Bay	\$592.00
Versapatch II/FB-BO	Normals Brought Out	\$814.00
Versapatch II/FB-TRB	Half Normalled	\$592.00

1-352-622-7700

Behringer Ultrapatch PRO PX2000



Behringer Ultrapatch PRO PX2000 is equipped with 48 phone jacks on the front and rear panels and has a switch for each channel (24 in all) on the top panel which can be used to adjust one of the four operating modes (parallel, half-normalized, normalized and open). The PX2000 gives you the utmost flexibility when configuring a well structured wiring scheme in the studio.

PX2000 Ultrapatch 69.00

Canare 75Ω Digital Video Patchbays



The Canare Video Patchbay is a vital link in your signal distribution network scheme. Serial Digital Video (SDI) production equipment operates at super high data bit rates. Every interconnect component in the modern post facility must be checked for 75Ω matched impedance and have sufficient headroom to pass HDTV signals in excess of 720MHz. Canare patchbays are designed for maximum reliability and will pass all Serial Digital signal formats with excellent Return Loss characteristics and very few signal reflections (VSWR).

242U-DVJW .. 2 x 24, 2U	\$856.38
201U-DVJW .. 2 x 20, 1U	\$742.30
241U-DVJW .. 2 x 24, 1U	\$851.38
261U-DVJW .. 2 x 26, 1U	\$913.23
262U-DVJW .. 2 x 26, 2U	\$918.23
244U-DVJW .. 2 x 24, 4U	\$2,583.95
264U-DVJW .. 2 x 26, 4U	\$2,772.93

dbx PB-48 Patchbay



The dbx PB-48 is for the studio where there is a need to frequently change cable routing and patching. It gives you 48 TRS I/O patchpoints that are necessary when patching balanced signals or send/return signals on insert jacks. Each vertical pair of jacks is easily configurable to allow half-normalled operation. 1U & 3lbs.

PB-48 \$149.95

Furman PB-48 48 Point Patchbay System



The Furman PB-48 is a new 48 point patchbay system featuring all balanced 1/4" TRS phone jacks in front, and available with either TRS phone or D-Sub connectors on the rear. The D-Sub option is ideal for interfacing to multitrack recorders and mixers. PB-48's are very easy to customize for half-normal/non-normal configurations. The PB-48D provides plug-in jumpers for the ultimate in simplicity of configuration.

PB-48	\$169.00
PB-48D	w/Sub option \$229.00

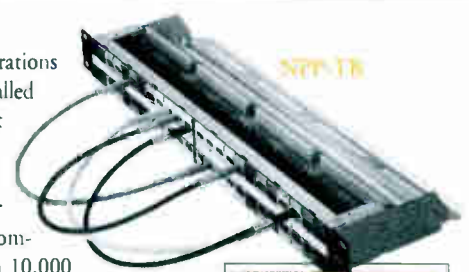
Interfaces • Patchbay



Neutrik Easy Patch

The Neutrik Easy Patch is easily programmable with six switching configurations for the jacks: fully normalised, parallel normalised, no normalised, half normalised bottom row, half normalised top row and double normalised. On the front panel they have a center marking strip and individual snap-on color coding tabs for identifying each channel pair. The Easy Patch has both digital and analog capabilities. The flexible grounding system allows for four possibilities to fit your needs: individual, group, central or chassis-common grounding. Neutrik uses high-quality connectors rated at better than 10,000

lifetime insertions! The Easy Patch is delivered in a fully normalised configuration and each channel ground is separately connected with the corresponding cable shield. All 14" versions incorporate the ability to expand from 14" to 18" or any distance in between to fit your rack.



- NPP-TB Longframe 1/4" 2x24 programmable push terminals .. \$1,007.00
 - NPP-TB-14E.. Longframe 1/4" 2x24 programmable ELCO/EDAC, 14" Version \$1,093.00
 - NPP-TB-14PT Longframe 1/4" 2x24 programmable push terminals, 14" Version \$1,259.70
 - NPP-TT Bantam 2x48, programmable push terminals \$1,064.00
 - NPP-TT-14E ... Bantam 2x48, programmable ELCO/EDAC, 14" Version \$1,341.4
 - NPP-TT-14PT . Bantam 2x48, programmable push terminals, 14" Version \$1,341.4
- Low cost non-configurable half normalised bays:**
- NPP-TB-HN.. Longframe 1/4" 2x24, half normalised, solder terminals .. \$560.00
 - NPP-TT-HN.. Bantam 2x48, half normalised, solder terminals \$551.25

Neutrik Patch Cords

- NKTB05 Longframe TB Plug 2', specify black or red \$26.97
- NKTB1 Longframe TB Plug 3', specify black or red \$28.00
- NKTT03 NP3TT-1 Plug 1', specify blk, red, ylw, grn, or blue \$14.69
- NKTT03Au ... NP3TT-1 Gold Plug 1', specify black or red \$17.39
- NKTT04 NP3TT-1 Plug 18", specify blk, red, ylw, grn, or blue \$14.81
- NKTT04Au ... NP3TT-1 Gold Plug 18", specify black or red \$17.58
- NKTT05 NP3TT-1 Plug 2', specify blk, red, ylw, grn, or blue \$15.08
- NKTT05Au ... NP3TT-1 Gold Plug 2', specify black or red \$18.01
- NKTT1 NP3TT-1 Plug 3', specify blk, red, ylw, grn, or blue \$15.73
- NKTT1Au NP3TT-1 Gold Plug 3', specify black or red \$18.56
- NKTT12 NP3TT-1 Plug 4', specify blk, red, ylw, grn, or blue \$12.94

Re'an LF 48 B-Gauge jackfield

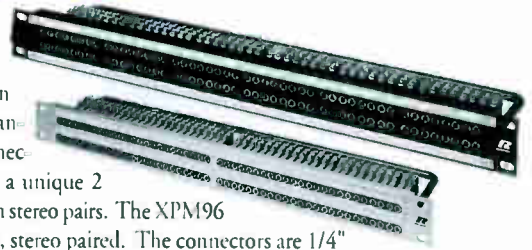
The Re'an LF 48 is a B-Gauge jackfield designed to accept both the European P0516 and the US MIL style of telephone jacks. It is fitted with 2 rows of 24, LF 501 solid nickel/silver, self cleaning jacks (formulated nylon and fiberglass) with high tension contacts designed for long life. The connectors are 1/4" TRS, so it handles both balanced and unbalanced signals. Face Plate available in four colors: specify A for red, D for blue, O for black and S for silver.



- LF48-1 Longframe 48 Point Patch Panel \$301.00
- LB Brass strain relief bar to support wire bundles \$21.00
- BAC12 LF quad cable, 1', A=red or O=black \$11.97
- BAC18 LF quad cable, 18", A=red or O=black \$12.00
- BAC24 LF quad cable, 2', A=red or O=black \$12.14
- BAC36 LF quad cable, 3', A=red or O=black \$12.14
- BAC48 LF quad cable, 4', A=red O=black \$12.29

Re'an MA96 and XPM 96 Bantam Patchbays

The Re'an MA96 and XPM 96 Bantam Patchbays have been designed to accept standard Bantam Jack connectors. The MA96 has a unique 2 row, 12x8 jack format in stereo pairs. The XPM96 is a 2 row, 4x24 format, stereo paired. The connectors are 1/4" TRS, so it handles both balanced and unbalanced signals. Face Plate available in four colors: specify A for red, D for blue, O for black and S for silver.



- MA96-1 Bantam 96 Point Patch Bay \$418.60
- XPM-96 ... Bantam 96 Point Patch Bay (black or silver only) \$418.60
- LB Brass strain relief bar to support wire bundles \$21.00
- MAC12 1TT quad cable, 1', A=red, B=grn, D=blue, F=white or O=black .. \$11.65
- MAC18 1TT quad cable, 18", A=red, B=grn, D=blue, F=white or O=black \$11.73
- MAC24 1TT quad cable, 2', A=red, B=grn, D=blue, F=white or O=black .. \$11.82
- MAC36 1TT quad cable, 3', A=red, B=grn, D=blue, F=white or O=black .. \$11.89
- MAC48 1TT quad cable, 4', A=red, B=grn, D=blue, F=white or O=black \$12.31



Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Interfaces • Patchbay

Siemon



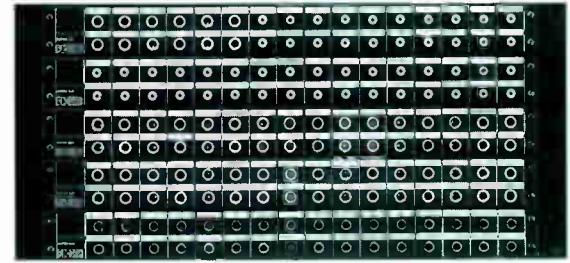
Siemon offers over 20 different size blocks configured from 2 pair up to 250 pair per block. There are two basic series for all 66 blocks the M Series and the B Series. The M Series clips are closer together allowing for a greater packing density. The M and B series are end-stackable, but the M series stacks without losing space between blocks. All the "plug-on" adapters and accessories are designed for use with the M series.

Model	Pair Capacity	Price
S66M1-25	25	\$13.45
S66M1-50	50	\$12.65
S66M1-100	100	\$28.45
S66B3-50	50	\$21.95
S66B3-75	75	\$25.75

Accessories

S20B	Cable hanger, 1-3/4" diameter top x 3" high self contained wood screw	\$1.19
S145	Single hanger with front entry, and a base, 3-1/2" base to front & 3-1/8" vertical lower hanger	\$3.25
SB6	Mounting bracket, for use with the B series blocks	\$6.95
S89D	Mounting bracket, for use with the M series blocks	\$2.09
SAI-1000	Tin-plated Copper Alloy Clips, 2-position clips, 1000 per polybag	\$29.50
SAI-100	Tin-plated Copper Alloy Clips, 2-position clips, 100 per polybag	\$3.95
S714	Automatic impact tool w/66 blade	\$79.00
S71401	Spare blade for S714 tool	\$23.75
SBT	Manual punch down tool w/66 blade	\$28.00
3M ST	Connector punch block hook-up	\$0.44

Tascam Patchbays



PB-32U	Half-normal 1/4" Phone Front 1/4" Phone Back	\$120.00
PB-32H	Half-normal, 1/4" Phone Front- RCA Back	\$117.50
PB-32R	Half-normal RCA Front, RCA Back	\$115.00
PB-32B	Half-normal Balanced, 1/4" TRS Front 1/4" TRS Back	\$145.00



Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com

Interfaces • Problem Solvers

Benchmark IFA-10 4x4 Assignable Mixer



Benchmark IFA-10 4x4 assignable mixer may be used for aux mixing or the creation of mix-minus feeds with telco or satellite communication. Features include: 20kΩ balanced input

- +27dBu I/O clip points
- CMRR=90dB @ 2kHz, 75dB @ 20kHz typical
- THD=0.0009% @ 2kHz typical
- -104dBu noise floor @ unity gain
- 60Ω balanced outputs
- individual output gain range of unity to -20dB
- and mounts up to three units side by side using RM-1 \$25.

IFA-10 \$265.00

Comrex Mix-Minus Bridge



Comrex Mix-Minus Bridge is for those broadcast facilities using remote audio sources as part of their main programming. Mixing the remote audio in with the program audio at the studio is easily done by the studio console. However, managing the audio fed back to the remote sites can be quite difficult when you have more than one source. Each remote device requires a mix-minus feed (all program audio minus the audio from the field unit)

Broadcast Tools Box of Switches

BOS, ROS & PBB-24 Switch & Button Panels



Switch & Button Panels The Broadcast Tools BOS (Box-O-Switches) offers 12 N.O. dry contact switches with status LEDs in a sloped-front desktop panel. The ROS is similar, but in a single-space rack unit. The PBB-24 provides 24 momentary buttons that can be programmed with a non-dedicated computer to output ASCII character strings on depression and release.

BOS	Box-O-Switches	\$199.00
ROS	Rack-O-Switches, Remote Utility Panel, 12 Switches, 1U ...	\$199.00
PBB-24	Programmable Button Box w/24 Switches, RS-232	\$299.00

because remote hosts cannot tolerate the time delay associated with modern audio processing. The Mix-Minus Bridge makes this process simple by providing 5 separate mix-minus feeds, and studio consoles will not become maxed out. The five feeds can be preset and ready to go at any time and the Mix-Minus Bridge even has an IFB for sending producer cues to the field.

Mix-Minus Bridge \$1,200.00

“This is a tool that every serious jock should have at their disposal...”



Sonny West, Mornings KYXY, San Diego, CA



The Morning Show To Go
www.quicpix.com

Here's why QuicPix is "The Button Box Alternative":

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- Uses any Windows compatible sound card
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FlexRack Modular Rack System
Page 49

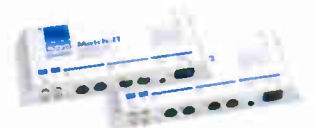
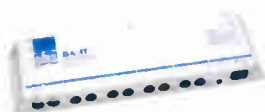


sbs distribution amplifiers Page 3

sbs line limiter Page 11

sbs microphone preamp & limiter Page 69

sbs level interfaces Page 37



Interfaces • Problem Solvers

Furman IP-2 Iso-Patch and IP-2B Iso-Patch

The Furman IP-2 Iso-Patch temporarily or permanently isolates line level audio signals to break ground loops that cause buzz and hum. It features 2 Input/output channels fitted with 1/4" jacks.



- IP-2 Dual Isolator, 2 channel, 1/4" TRS \$69.00
- IP-2B Dual Isolator, 2 channel, 1/4" TRS and XLR \$99.00

Henry MixMinus Plus Differential Summing Amplifier



Henry MixMinus Plus is a differential summing amplifier designed to add a "Mix Minus" output to an audio console or teleconferencing system. This output is typically used to feed the send input of a telephone hybrid device. MixMinus Plus subtracts the hybrid receive signal from the program output, to generate a program mix - minus the receive (caller) audio. The NULL adjustment will provide 40dB caller audio rejection. It is also applicable to satellite audio systems, removing incoming audio from a return IPB or cue feed to prevent echo and feedback.

- MixMinus Plus \$195.00

JK Audio Pureformer Hum & Noise Reducer



The JK Audio Pureformer is a hum and noise reducer for sound cards and audio equipment. It removes ground loops and DC paths that cause hum and signal break-up. Just insert it between your sound card and your audio mixer or amplifier.

- Pureformer \$59.00

Pro Co IT-8A & IT4A Transformer Isolation Balancing Box

Transformer Isolation Balancing Box

Pro Co IT8A Transformer Isolation Balancing Box can be used to balance and isolate eight outputs from equalizers, crossovers, or mixers. XLR I/O & 1U.



- IT8A Transformer Isolation Balancing Box \$444.33
- IT4A Four outputs \$333.22

Pro Co DB-4A Quad Direct Box

Pro Co DB-4A quad direct box optimized for balanced or unbalanced instrument level. Four channels of balanced mic level out.



- DB-4A Quad Direct Box \$333.32

Pro Co Cough Drop Momentary Muting Switch



- Cough Drop Momentary Muting Switch \$55.44

sbs FlexRack Modular Rack System



sbs's innovative FlexRack offers an alternative to stacks of problem-solving boxes or dedicated rack units. It's a 1U chassis with an integral mains power supply, capable of housing up to four further sub-modules. By choosing and fitting modules from an expanding list of functions,

a variety of unique systems may be constructed in a tidy, compact and professional way. It is now possible to combine functions in ways that would never be found as a single integrated unit. Also, repeated functions such as multiple silence sensors may be implemented without occupying large amounts of rack space. The FlexRack chassis incorporates moveable rack ears which allow the unit to be mounted with the connectors facing either direction within a 19 inch rack; alternatively, the ears may be rotated through 90 degrees for screw-down or screw-under table mounting. 5-Year Warranty

Additional FlexRack Modules

Further modules will be added to the range below during the lifetime of this catalog - contact BGS for an updated list. Alternatively sbs can provide a custom design service based on the FlexRack system for certain products, contact BGS for more details.

- FR-RK1 FlexRack Chassis (includes power supply) \$395.00
- FR-DSS Dual Silence Sensor \$295.00
- A stereo/dual mono audio silence sensor that's capable of raising alarms directly or via a remote telemetry system and performing emergency signal changeover. Bandpass filters followed by separate dynamic range and static level detectors can discern between valid audio and fault conditions such as hum on a line. Thresholds, time delay and the period of valid audio required before alarms are cleared are all user adjustable. Instantaneous audio status and timeout alarms are available as well as front panel LEDs, and an additional internal multipole relay can be used for audio changeover or further alarm signalling.
- FR-DAC Digital to Analog Converter \$295.00
- Ultra high quality professional conversion from AES/EBU digital audio to stereo balanced analog signals at 24-bit resolution and input sample rates up to 100kHz. Status outputs indicate valid incoming data and the audio may be externally muted.
- FR-ADC Analog to Digital Converter \$395.00
- Ultra high quality professional conversion from stereo balanced audio to AES/EBU digital at 24-bit resolution and selectable output sample rates up to 96kHz. The master clock frequency may be externally applied or derived from internal high stability oscillator. Quality balanced input stages with gain trim are followed by switchable two stage protective limiter for applications where the input level may not be well defined.
- FR-GB6 Hex Audio Matching/Amplifying Block \$265.00
- Six audio channels, with wide-range gain controls and balanced inputs and outputs. All may be individually unbalanced without loss of level. Hence, by selective unbalancing this module may be used for multiple balanced-to-unbalanced or unbalanced-to-balanced conversion at both professional and semipro levels, as well as for simple gain adjustment.
- FR-SRM Serial Remote Monitor/Controller \$295.00
- The FR-SRM encodes status information from FlexRack modules or other equipment into a serial data stream suitable for transmission via an RS232 connection, such as is commonly provided by modern digital STL links, and decodes similar information arriving in the opposite direction. Two identical units situated at either end of a link can therefore be used to monitor conditions at a remote location and control the equipment situated there. Eight digital status signals and two 0-5V analog voltages are passed in each direction, with error detection codes embedded in the signal to eliminate spurious outputs during corruption or disconnection of the link.
- FR-BLANK Blank Panels for unused slots (pair) \$30.00

Radio Design Labs

The Radio Design Labs application specific modules perform a particular electronic function or do a specific job. Audio and video functions are broken down so a module does one job. Certain modules mix, others preamplify or amplify, others detect, others control while others distribute. A module is provided for each function and type of signal. Application specific modules do a single job or build a complete system or system subassembly. RDL modules are versatile, offer high performance and are a great value! All Rack-Up™ Series & Active Stick-On units require an external power supply.

* Notes Pictured

- Alerting**
 D-BZR Piezo Alert Module, H4.1"xD1.6"xW1.3" \$98.00
 R-BZR Piezo Alert Module, H2.6"xD1.6"xW1.3" \$98.00

- Attenuators**
 STP-1 Universal Attenuator (Audio) \$59.00
 RU-VA2 Video Attenuator \$152.00

- Audio Distribution**
 FP-AVD4* Audio/Video Distribution Amp \$269.00
 RU-BDA3 3 Output audio DA \$237.00
 RU-DA4D 1x4 Stereo audio DA or 1x8 mono \$245.00
 RU-MDA3 1x3 Mic DA \$240.00
 RU-UDA4 2x4 Stereo unbalanced DA \$168.00
 ST-DA3* Audio DA (1 in, 3 out line) \$134.00
 STM-DA3 Microphone DA (1 in, 3 out mic) \$134.00
 TX-MX2R Audio mixer/Distribution Amp, (2 unbal. in, 2 summed unbal. out) \$79.00

- Audio Processing**
 RU-EQ2 2 band Equalizer, Front panel control \$153.00
 RU-EQ3 3 band Equalizer, Front panel control \$175.00
 ST-CL1 Compressor/limiter (order 2 for stereo) \$147.00
 ST-EQ3 3 Band equalizer \$95.00
 ST-GCA1 Gain control amplifier \$127.00
 ST-GCA2 Fast gain control amplifier \$127.00
 ST-GLA1 Gated Line Amp, 1 line in/out, self gating \$118.00
 ST-GSP1* Gated Speech Preamplifier \$128.00
 ST-LEQ1 Loudness EQ \$81.00

- Audio Signal Generators**
 RU-OSC4A Sequencing oscillator \$271.00
 ST-NG1* White & pink noise generator \$128.00
 ST-OSC2A Oscillator, 1K/10K, 2 line out for each freq. ... \$104.00
 ST-OSC2B Oscillator, 100Hz/400Hz, 2line out for each freq. . \$104.00

- Crossovers & Filters**
 ST-CX1F Full range crossover, 100Hz to 30kHz \$119.00
 ST-CX1S Subwoofer crossover, 22Hz to 80Hz \$119.00
 ST-CXW Woofer crossover, 40Hz to 165Hz \$119.00
 ST-HP1 300 Hz High-Pass Filter \$119.00
 ST-HP2* 500 Hz High-Pass Filter \$119.00

- Digital Audio**
 FP-DFC1* Format Converter - SPDIF AES/EBU \$467.00
 RU-AEC1* D to A Converter 24/96 AES/EBU \$443.00
 RU-AED4* Digital Audio Distributor - AES/EBU \$599.00
 RU-AEX4 Digital Audio Selector - AES/EBU \$665.00
 RU-SPC1 D to A Converter - 24/96 SPDIF \$443.00
 RU-SPD4 Digital Audio Distributor - SPDIF \$745.00
 RU-SPX4* Digital Audio Selector - SPDIF \$831.00
 RU-UDC1 Universal Digital Converter \$655.00

- Digital Interface**
 RU-SC1A Serial Converter, Half duplex RS-232=RS-485 .. \$185.00
 RU-SC2* Serial Converter, Full duplex RS-232=RS-422 ... \$185.00

- EMC**
 ST-FS6 Ferrite Suppression Module \$72.00
 TS-1D* Transient Suppressor \$106.00

D-BZR



FP-AVD4



RDL ST-DA3



RDL ST-GSP1



RDL ST-NG1



RDL ST-HP2



FP-DFC1



RU-AEC1



RU-AED4



RU-SPX4



Line Amplifiers/Interface

- FP-UBC6 Unbalanced to Balanced Converter \$383.00
 FP-UBC2 Unbalanced to Balanced Converter \$177.00
 RU-BLA2 Stereo line amp, XLR's ins/outs \$252.00
 RU-LA2D IHF-PRO Interface \$274.00
 STA-1 Electronic transformer and line amp pair \$144.00
 STA-1M Audio line amp, mono \$106.00
 STA-2 High output Audio Line Amp (up to 24dB adj. gain) .. \$151.00
 ST-GLA1* Gated Line Amplifier (1 line in/out; self gating) \$118.00
 ST-TC1 Telephone System Coupler \$102.00
 ST-UBA2 Unbalanced to Balanced Amplifier \$153.00

Metering

- RU-SM16 Dual channel audio meter \$226.00

Microphone Products

- RU-MP2 Stereo mic preamp, XLR ins/outs w/phtn pwr. . \$317.00
 ST-AMC3 Active mic combiner, 3 in - 1 out \$121.00
 ST-GSP1 Gated Speech Preamplifier \$128.00
 STM-1 Mic preamp, fixed gain \$102.00
 STM-2 Low noise mic preamp, variable out \$140.00
 STM-2X Switched mic preamp, variable out \$158.00
 STM-3 High gain mic preamp, variable out \$161.00
 ST-MPA2 Mic phantom adapter \$88.00

Mixing

- RU-MX5 5 Input mic/line mixer \$263.00
 ST-LMX3 Line & Mic Level mixer, (2 mic-1 line bal/unbal in; 1 line bal/unbal out) \$128.00
 ST-MIX3 Mic/line to line mixer \$128.00
 ST-MMX3 Mic to line mixer (3 mic lines in, 1 line out) \$134.00
 ST-MX3 Line level mixer (3 lines in, 1 line out) \$121.00
 ST-MXL3 Line to mic mixer \$128.00
 TX-LC2* Audio combiner/unbalanced to balanced \$94.00
 TX-MX2R Audio mixer/distribution amplifier (2 unbal. in, 2 summed unbal. out) \$79.00

Passive Products

- STD Series* .. Divider/Combiner, 150Ω, 600Ω, 10KΩ, 4 combinations \$52.00

Phono

- ST-PH1 Stereo phono preamp \$134.00

Power Amplifier

- RU-PA518 Audio Power Amplifier \$227.00
 ST-IC1 Intercom Amplifier, (1 mic level input; 1@ 8Ω out) .. \$128.00
 ST-MA2 Muting Monitor Amp, Selectable attenuation \$83.00
 ST-PA2 2 Watt power amp mono \$68.00
 ST-PA6 6 Watt power amp mono \$94.00
 ST-SH1 Stereo headphone amp \$121.00
 TX1W* Music on hold amplifier, 1 unbal in, 1 bal & 1 unbal out, 1 watt \$68.00

Power Supplies & Accessories

- FP-DCC1 DC/DC Converter \$209.00
 CP-1 Single cover plate in white, for use with WB-1 \$9.00
 CP-2 Double cover plate in white, for use with the WB-2 \$9.00
 PS-24A* 24Vdc @ 400mA power supply \$19.00
 PS-24E Continental Europe 24Vdc @ 400mA power supply ... \$33.00
 PS-24K 24Vdc @ 1000mA power supply \$28.00
 PS-24U2 24Vdc Switching power supply @ 2A \$68.00
 PS-24U2A 24Vdc Switching power supply @ 2A \$71.00
 RU-PSB1 Mounting Kit for PS-24U2 Power Supply (mts. in RU-RA3 opening \$36.00
 ST-PD5 Linear Supply Distributor \$68.00
 ST-PD5U Switching Supply Distributor \$80.00
 WH1 Power supply mounting adapter, surface mts. (mts. 6 supplies) \$69.00
 WH2 Power supply mounting adapter, 19" RM (mts. 6 supplies) \$69.00

Interfaces • Problem Solvers

Radio Design Labs (Continued)

Rackmounts & Accessories

* Notes Pictured

ACB-1*	Headphone jack box	\$28.00
ACB-2	Dual RCA jack box	\$28.00
EC6	AC Extension Cord (6 pack)	\$24.00
FP-RAA	Rear Rack Adapter w/hinge - Flat-Pak Series	\$59.00
FP-RAAH	Rear Rack Adapter - Flat Pak Series	\$75.00
JP-1*	Universal jack panel	\$15.00
JP-2	XLR jack panel	\$15.00
J-RCA	Phono jack	\$1.00
J-PHN-S	1/4" Phone jack, stereo	\$2.00
J-XLR-F	XLR, female	\$8.00
J-XLR-M	XLR, male	\$7.00
J-BNC	BNC jack	\$2.00
RC-1U	Universal rack adapter	\$139.00
RM-FP1	One rack unit filler panel	\$45.00
RM-FP2	Two rack unit filler panel	\$56.00
RM-MP12	Audio Monitor Panel	\$768.00
RU-BR1	Mounting Bracket for RU Series	\$28.00
RU-FP1	Rack filler panel/Reverse mounting kit	\$10.00
RU-RA3	19" Rack adapter, holds up to 3U modules	\$31.00
RU-RA3A	Triple Rack Mount/With Shelf	\$62.00
RU-WHA4	Wire harness adapter kit	\$12.00
TX-RA5	19" Rack Adapter for TX Series products	\$31.00
WB-1	Sgl wall box, for mtg. 1 of the RLC1, 2, 10K & RCS4	\$5.00
WB-2	Dbl wall box, for mtg. 1 of the RLC1, 2, 10K & RCS4	\$7.00
WDG1	Table top wedge mt. (mts. 1 rack-up & 2 stick ons)	\$102.00

Rackmount & Accessories for Stick Ons

STR-19B*	Racking System, (19"RM for up to 10 stick-ons at an angle)	\$155.00
STR-19A*	Racking System, (19"RM for up to 12 stick-ons)	\$131.00
MB-1	Mounting kit	\$3.00
MB-2	Mounting kit, L bracket	\$2.00
DMK	Detachable mounting pads, (Kit of 5)	\$5.00
LBL-1	Label kit	\$7.00
MSR-1	Snap rail adapter	\$12.00
SMK-12	Stick-on mounting strip	\$25.00
SR-10	Stick-on mounting rack (mts. 10)	\$62.00
SR-12*	Stick-on mounting rack (mts. 12)	\$62.00
DTB	Detachable terminal block	\$6.00

Speakers

RU-SP1	Monitor speaker, for use in RU-RA3, RC1U, or WDG	\$42.00
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Switching & Control

RC2-ST	R Series remote to control any 2x1 RDL "open collector" input module	\$96.00
RC4-RU	R Series remote to control RU-SX4A	\$96.00
RC4-ST	R Series remote to control ST-SX4	\$96.00
RCS4	Remote channel selector, for RU-SX4	\$96.00
RLC5K	Remote level control, for ST-VCA	\$34.00
RLC10K	Remote level control, for ST-VCA1	\$34.00
RLC2	Remote level control, for RU-VCA's & ST-RG	\$128.00
RLC3	Remote level control, for ST-VCA1	\$133.00
RT2	R Series "ON/OFF" remote control, (2 LEDs, 2 buttons)	\$96.00
RU-SQ6*	Sequencing Controller	\$233.00
RU-SX4A	Balanced audio switch	\$264.00
SourceFlex	Flexible Audio Monitoring	Call for configuration/Pricing
ST-ACR1	Audio ctrl. relay-release .5 to 5.0 sec., line in	\$96.00
ST-ACR1M	Audio ctrl. relay-release .5 to 5.0 sec., mic in	\$98.00
ST-ACR2	Audio ctrl. relay-release 5 to 50 sec, line in	\$96.00
ST-LCR1	Logic ctrl. relay-momentary	\$74.00
ST-LCR1H	Hi Power relay	\$109.00
ST-LCR2	Logic ctrl. relay-alternate action	\$109.00
ST-RX2*	Audio Routing Switcher	\$104.00
ST-SSR1	Solid state audio "relay", 2 line bal in & 1 mic out	\$104.00

ACB1



JP-2



RU-SQ6



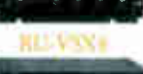
ST-RX2



ST-SX4



TX-10B



FP-AVDA4



RU-VCA1



RU-VCA1D



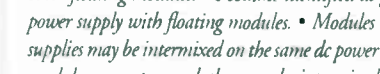
TX-AVX



STR-19B



STR-19A



SR-12



Switching & Control

ST-SX4*	4 Input switcher, unbal line in/out	\$101.00
ST-VOX1	Audio ctrl. VOX relay, 1 mic -1 line unbal in	\$102.00

Transformer Modules

TX-10B*	Bridging input transformer, 10KΩ in, 10KΩ balanced out	\$38.00
TX-1A	Adjustable line transformer, 10KΩ/600Ω in, 10KΩ bal out	\$32.00
TX-70A	70v Input interface, 100V/70V/25V speaker line in, 1 line unbal out, adjust	\$33.00
TX-LM2	Line Matching Transformer	\$33.00

VCA's

RU-VCA1	Digitally controlled attenuator, mono	\$274.00
RU-VCA1D	Digitally controlled attenuator, stereo	\$308.00
ST-RG1	Ramp generator	\$109.00
ST-VCA1	Voltage controlled amplifier	\$119.00
ST-VP1	Voice-over/page module	\$134.00
ST-VP2	Automatic Ducking Module, 2 line in-1 line out	\$153.00

Video Distribution

FP-AVDA4*	Audio/Video Distribution Amp	\$269.00
FP-VDA4	Video Distribution Amp	\$208.00
FP-SVDA4	S-Video Distribution Amp	\$239.00
RU-VDA4*	1x4 Video DA (loop-through in, 75Ω out)	\$253.00

*Specify BNC, phono or type F, adjustable Video Line Amplifier

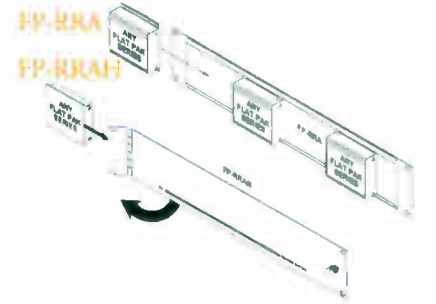
Video Line Amplifiers

TX-VLA1	Video Line Amp, adj. gain and eq.	\$158.00
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Video Switching & Control

RU-VSQ4	Sequencing Video Switcher	\$308.00
RU-VSX4*	4 Input Video Switcher	\$342.00
TX-AVX*	Automatic Video Switch, 2 video inputs switched to 1 out	\$156.00
TX-MVX	Manual Video Switch, switch, relay or open collector "slave" control	\$96.00
TX-VCR	Video Controlled Relay, 1 video in with loop thru, SPDT	\$140.00

New Rack-Pak Series Rackmounts



General Power Supply Information

• Rack-up modules operate from ground-reference 24Vdc • Certain Stick-on modules operate from ground-referenced 24Vdc • Certain Stick-on modules operate from floating 24Vdc. Floating modules internally create bipolar voltages from a non-ground referenced 24Vdc supply. These modules may also be powered directly from an external bipolar (±12 to ±15Vdc) supply. • Active TX series modules all operate from ground-referenced 24Vdc. Certain TX series modules also operate from 12 or 24Vac.

System Planning Guidelines

• Modules identified as ground-referenced may be intermixed on the same power supply with other ground-referenced modules. • Modules identified as floating may be intermixed on the same power supply with other floating modules. • Modules identified as ground-referenced may NOT be intermixed on the same power supply with floating modules. • Modules (TX series) which may be operated from ac or dc power supplies may be intermixed on the same dc power supply with RDL ground-referenced modules. When these modules are ac powered, they may be intermixed on the same ac power supply with other manufacturers' ac powered products only if the other manufacturers' products are internally ground referenced.

Interfaces • Problem Solvers

Shure Problem Solvers

A15AS ... Switchable Microphone Attenuator, 15, 20, or 25dB attenuation	\$43.86
A15BT Bridging Transformer	\$53.81
A15HP .. High pass filter	\$50.59
A15LA ... Line Adapter-converts balanced line level signals to mic level (50dB attenuation)	\$39.78
A15PRS ... Switchable phase reverser	\$50.49



Shure Impedance Transformers

A85F Low to High impedance matching transformer	\$18.87
A95UF ... Low to High impedance matching transformer	\$40.55
A95U Same as A95UF but w/3-pin XLR male low impedance connector	\$36.98
A96F Low to medium impedance transformer w/mini plug output connector	\$51.51



Whirlwind



The Whirlwind MD-1 combines a high quality mic/line input stage with a transformer-isolated line driver and independent headphone amplifier. Ideal for boom, parabolic and interview mics, the MD-1 provides phantom power, local monitoring and a line-level balanced output for noise immunity over long cable runs. The MD-1's input stage features a level control and up to 60dB of gain, a mic/line input level switch, plus switchable 18V phantom power for condenser mics. Its output can be switch selected between the isolated gain stage and a straight loop-through. The headphone volume control provides a 60dB range of adjustment to the post-transformer input signal or to signals inserted at the headphone line in jack. The mix control allows the user to monitor a mix between the driver circuit and the direct line in. It's powered by two 9V batteries.

MD-1 \$399.95

Whirlwind



The **HotBox** is a totally transparent active direct box, powered by two 9V batteries or 48V phantom power. It includes a ground lift switch and an LED on indicator.

HotBox \$170.80

The **Director** is a premium direct box that converts a line, instrument or speaker level signal to a low impedance mic level.

Director \$109.95



IMP Pads are female to male XLR 3-pin inline low impedance fixed attenuation devices. Input impedance: female XLR @ 1kΩ; Output impedance: male XLR @ 150Ω

IMP PAD 10dB \$19.95

IMP PAD 20dB \$19.95

IMP PAD 30dB \$19.95

Little IMP in-line impedance matching transformer with female XLR connector to male 1/4" connector
Little IMP \$19.95



The **IMP#2** is an economical direct box that converts a line or instrument level unbalanced signal to a low impedance balanced mic level (20kΩ input, 150kΩ output)

IMP-2 \$59.95



The **MicPower** is a portable +12 to 18Vdc phantom power supply for use with most electret condenser microphones. The unit operates on two 9V batteries, and an LED sensing circuit indicates sufficient battery power. Input impedance 1kΩ; Output impedance 150Ω; Battery life 50 hours @ 4mA current draw.

MicPower \$119.95



The **Lifter** is a female to male XLR 3-pin ground lift device which disconnects pin 1 between connectors.

Lifter \$19.95

The **Phase Reverse** is a female to male XLR 3-pin phase reversing device which reverses the connection of pin 2 and pin 3 between connectors.

Phase Reverser \$19.95



Interfaces • Relays & Logic

Broadcast Tools ConsoleController IIA



Broadcast Tools Console Controller IIA provides the solution for interfacing non-broadcast consoles or digital workstations to the broadcast studio. It offers three channels of insert switching to turn on or off console input channels or other source equipment. The user can program the switch indicators to either light steady or flash when in operation, and channel three may be configured to either mute or not mute the monitors when energized. The CC-IIA offers monitor amplifier mute control, front panel monitor level control and the ability to switch between internal or external (program/off-air) monitor input sources.



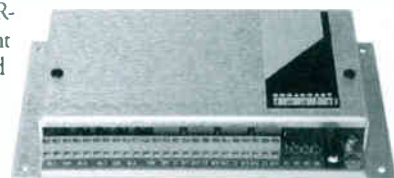
Back

CC-IIA \$299.00

1-352-622-7700

Broadcast Tools Box-O-Relay

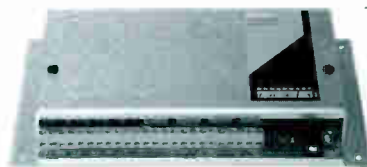
The Broadcast Tools Box-O-Relay, BOR-4 provides the user with four independent 2PDT relays, eight opto-isolated and TTL/CMOS 5 volt compatible inputs. Each opto-isolated input may be configured for 5 to 24Vdc wet or dry operation. Each relay has a number of input control options. The first is the ability to ignore input pulses less than 100 milliseconds. The second is pulse stretching inputs 100ms or longer into relay closures in 700ms increments up to 108 minutes. The seven additional control functions are as follows: 1) Sustained input causes a relay closure 2) Toggling an input causes the relay to open and close on each transition 3) Sustained action with rising edge with pulse stretcher 4) Sustained action on both edges with pulse stretcher 5) Pulse input on falling edge with pulse stretcher 6) Pulse input on rising edge with pulse stretcher 7) Set/Reset (flip-flop) action. All latching functions are stored in non-volatile memory during power outages. Features include: Precise programmable pulse stretch timing (700ms to 108 minute) • multiple logic functions • opto-isolated inputs • TTL/CMOS 5 volt compatible inputs • 2PDT gold contact relays • 9Vac power supply • screw terminals • aluminum chassis. 1U



BOR-4 \$139.00

Interfaces • Relays & Logic

Broadcast Tools UI-4II Universal Interface



The Broadcast Tools UI-4II universal interface creates an SPDT relay and open collector output from an optically isolated 5-28 volt AC or DC input. Four channels of control are included and can operate independently, or may be combined for latched and multiple relay contact operation. Internal DIP switches allow the UI-4II to be configured in dozens of different ways. The UI-4II is supplied with a plastic bracket for easy mounting. A self contained power supply operates from 12 to 48 volts AC or DC.

- UI-4II \$139.00
- RM1 or RM2 hold 2 units (RM-1, 1U shelf), (RM-2, 3U shelf) \$49.00

Henry Engineering Logiconverter



The Henry Logiconverter is an interface unit that facilitates remote control of studio equipment. It solves the incompatibility problems encountered when a broadcast console is used to provide remote start/stop control of peripheral equipment. Logiconverter converts TTL/CMOS or open-collector console outputs to relay closures for remote interface that is compatible, reliable and isolated. The unit can be user programmed via internal dip switches to generate either momentary or maintained outputs from various inputs, with 24 combinations possible.

- Logiconverter \$195.00



Henry Engineering Superrelay

The Henry Superrelay is a quick and easy relay interface for use in any studio installation requiring multiple circuit control. Superrelay provides six double-throw relay outputs for low-voltage and audio switching. It can be controlled by any switch, momentary or maintained relay, or CMOS/TTL logic circuit. The AC output is switched with a solid-state synchronous relay for direct powering of "On Air" warning lights. Includes an internal flasher circuit and 12 Vdc/250 mA utility power supply.

- Superrelay \$250.00



Radio Design Labs ST-LCR1 and ST-LCR2 Logic Controlled Relays

The Radio Design Labs ST-LCR1 and ST-LCR2 Logic Controlled Relays provides double-pole, double-throw dry switching contacts and LED indicators for relay closures. The ST-LCR1 provides momentary operation and is ideally suited where additional switching contacts are needed to be added to nearly any type of control signal. The ST-LCR2 is used where momentary pulses must alternately toggle on/off switching contracts. Open-collector slave output allows connection of remote "on" indicator or an ST-LCR1 for additional relay contacts. These relays are for anywhere you need: more contacts by adding a slave relay • activation from logic circuits • DPDT switching relay • open collector switching • and control from switch, button, or logic circuits.



- ST-LCR1 Momentary \$74.00
- ST-LCR2 Alternate-Action Switching \$109.00

Radio Design Labs ST-ACR Audio Controlled Relay



The Radio Design Labs ST-ACR Audio Controlled Relay can be used anywhere you need: control switching from audio signal • switching from mic or line signals • silence sensing • DPDT switching contracts • and open-collector (slave) output. The ST-ACR1 is designed to switch on line level sources. The ST-ACR1M is designed to switch on low-level sources. The ACR-2 is designed to switch on line level sources with extended release delay (like silence sensor relay).

- ST-ACR1 \$96.00
- ST-ACR1M \$98.00
- ST-ACR2 \$96.00

Radio Design Labs TX-VCR Video Controlled Relay



The Radio Design Labs TX-VCR Video Controlled Relay can be used to: detect video presence • detect loss of video • bridging or terminated operation • detection of NTSC or PAL signals • dry contact outputs • and for operation from AC or DC power. The TX-VCR is the ideal choice in installations where a control signal is needed based on the absence or presence of valid video signal.

- TX-VCR Video Controlled Relay (1 video input with loop thru, SPDT) \$140.00

sbs Pulsar Fader Start/Skimmer Recorder Control Board



The sbs Pulsar is a tiny (2" x 1.5") microprocessor-based module for adding remote/fader start or "skim" functions to standard record and replay equipment. An optional run-on ensures capture of the entire voice break and the start of the next programme item. The Pulsar can automatically set some recorders into record-pause mode at power up. Easily fitted (full instructions supplied), the Pulsar draws its power from the unit being controlled. Either active high or closing contact signalling is accepted, with the control signal being internally debounced. Specifications : Supply voltage range +3.3-5Vdc or +7.5-18Vdc @ 15mA • Input signal (closing contact) Needs to sink 0.5mA when on and block 5Vdc when off • Input signal (active high) +5 to 18Vdc, input impedance > 4.7kΩ • Outputs .. : Floating transistor, active on, max ratings 5mA, 30V.

- Pulsar Fader Start/Skimmer Recorder Control Board \$49.00

Sine Systems DAI-2 Dial-Up Audio Interface



The Sine System DAI-2 was designed primarily to allow remote broadcasts at unattended stations, but, with the array of features included, its uses are unlimited. The DAI-2 combines a telephone autocoder, a DTMF tone operated controller, audio switching, alarm sensing and output relays into an extraordinarily flexible system. Now included, the new relay panel has one DPDT and seven SPDT relays with LED indicators. The optional DB-1 Delay Board can be used to eliminate the brief control tone bursts from reaching the air audio signal. Also, the CI-1 Composite Insertion module is available for installations where discrete audio is not available.

- DAI-2 Dial-Up Audio Interface \$965.00
- DB-1 Delay Board \$135.00
- CI-1 Composite Insertion Module \$135.00

Interfaces • Routers/Switchers

Broadcast Tools 6x1B Audio Switcher/Router

The Broadcast Tools 6x1B Audio Switcher/Router passively switches or routes any one of six balanced stereo sources to one stereo output.



It provides passive switching through gold contact relays. Front panel switches with LED's provide interlocked source selection and status. A rear panel 15 pin D connector allows for remote control and status. Remote control inputs may be momentary or maintained TTL/CMOS, open collector or contact closure and status is an open collector. It provides loss of power bypass on input one and may be programmed to power-up on any one of the six inputs. Additional features include: step input for input sequencing • a mute input which mutes the stereo output when activated • programmable non-selected input termination • a second bridging output to allow monitoring of source material • removable screw terminals for I/O connections • RS-232 serial port.



6x1 Options RM-1 \$49 & FP-1 \$39 \$399.00

Broadcast Tools 10x1 Stereo Audio Switcher/Router

The Broadcast Tools 10x1 Stereo Audio Switcher/Router passively switches or routes any one of ten stereo sources. It provides passive switching through gold contact relays. Features include: front panel switching with LED indicators • full front panel remote control and status • programmable front panel enable • audio mute control • selective channel power-up programming • and a 2400 baud serial port.



Comes with wall transformer, serial cable, with audio I/O connections via removable screw terminals.

10x1 \$529.00

1-352-622-7700

Benchmark IFA-11 Remote Stereo Mono Switch



Benchmark IFA-11 Remote Stereo Mono Switch can provide stereo or mono output to both channels from a stereo device. Specification:

20k Ω balanced input • +27dBu input clip point • CMRR=90dB @ 2kHz, 75dB @ 20kHz typical • THD=0.0009% @ 2kHz typical • -104dBu noise floor @ unity gain • 60 Ω balanced outputs • individual output gain range of unity to -20dB • mounts up to three units side by side using the RM-1 @ \$25.

IFA-11 Remote Stereo Mono Switch w/PS-1 power supply ... \$260.00

Broadcast Tools SS2.1/BNC

Composite AES/EBU Switcher/Router



The Broadcast Tools SS2.1/BNC AES/EBU Switcher/Router provides passive switching/routing of any one of 2 composite audio, video or AES-EBU inputs to 2 composite audio, video or AES-EBU outputs, or vice-versa. Features

include: remote control/status • RS-232 multi-drop serial port • Last selected source memory • BNC connectors.

SS2.1BNC Options RM-2 \$49 or RM-3 shelf \$49 \$159.00

Broadcast Tools SS2.1/TERM

Stereo Audio Switcher



The Broadcast Tools SS2.1/TERM Stereo Audio Switcher provides passive switching/routing of any one of 2 stereo inputs to one stereo output or vice-versa. Features include: remote control/status • RS-232 multi-drop serial port • Last selected source memory • Pluggable screw terminal connectors for I/O connections.

SS2.1/Term Options RM-2 \$49 or RM-3 shelf \$49 \$159.00

Broadcast Tools SS3.1

Stereo Audio Switcher/Router



The Broadcast Tools SS3.1 Stereo Audio Switcher/Router passively switches or routes any one of three stereo inputs to one stereo output or vice-versa. The SS3.1 may also be configured to perform the functions of a 2x1 Switcher/Router, and may be programmed for momentary latching control. Includes RS-232 serial port.

SS3.1 Options RM-2 \$49 or RM-3 shelf \$49 \$169.00

Broadcast Tools SS8.2

Crosspoint Switching/Routing

The Broadcast Tools SS8.2 provides crosspoint switching/routing with 8 stereo inputs, 2 stereo plus 2 mono outputs. The SS8.2 includes 3 switching modes, I/O trimmers, internal silence sensor, selectable headphone and powered speaker level controls and outputs. Features include: LED VU meters • 16 input digital port • 8 relays and 8 open collector outputs • Multi-drop RS-232 and RS-485 serial ports • pluggable screw terminals • input expansion port. 1U

SS8.2 Crosspoint Switching /Routing \$729.00



Broadcast Tools SS12.4
Stereo Crosspoint Audio Switcher



The Broadcast Tools SS12.4 Stereo Crosspoint Switcher is designed to accommodate 12 stereo inputs and 4 stereo outputs. The front panel backlit 16 character x 2-line LCD display provides user programmable source and destination selection. The operation is as simple as dialing the input and output via the encoder knob and pushing the "STORE" button. The SS12.4 may be configured for three different switching modes. The mix mode allows the mixing of any/or all inputs to any/or all outputs. The overlap mode provides the overlapping of any two inputs

to an output. The duration of the overlap may be set in increments of 10ths of a second, with a maximum of 9.9 seconds. The interlock mode allows the switching on of the last selected input while turning off the first. Audio connections via removable screw terminals. The SS12.4 may be controlled remotely (max 4) via an optional SS12.4RC, a look-alike remote panel, or a PC. The SS12.4 may be addressed for multi-drop control as well as configured to a 12 stereo input, 4 studio router. 1U

- SS12.4 \$899.00
- SS12.4RC \$299.00

Broadcast Tools 3x2 Digital Stereo Audio Switcher

The Broadcast Tools 3x2 is a 3 input dual output stereo audio switcher. It features: 3 balanced stereo inputs, assignable to either or both stereo outputs • multi-turn input trimmers • output level trimmers • front panel channel indicators • 2400 baud serial control port • two modes of parallel remote control, mode one is an on/off latching mix mode, mode two is sustained input mix mode compatible with the



Scott Studios 8255 I/O control. All cables, adapter and wall transformer are supplied. Audio I/O connections via removable screw terminals.



- 3x2 Options RM-1 \$49 & FP-1 \$39 \$399.00

Broadcast Tools 8x2
Active Dual Stereo Audio Switcher



The Broadcast Tools 8x2 Active Dual Stereo Audio Switcher is designed to accept 8 stereo inputs switchable to two stereo outputs via front panel switches with LED indicators. The inputs may be programmed to either overlap, mix, or interlock any source. Inputs are balance bridging and will accept either balanced or unbalanced sources. Rear panel input trimmers allow input adjustment

between -10 and +8dBm. Output level adjustment is also provided. Additional features include: Eprom programming for power-up input select • mute input • front panel switch disable • monaural outputs • summing input for multiple unit cascading • & output selectable silence sensor. Parallel and RS-232 serial ports are also provided for remote control and status. Removable screw terminals. 1U

- 8x2D/ev Active Dual Stereo Audio Switcher \$649.00
- 8x2D/SV As above in Scott Version \$649.00

Broadcast Tools 8x1DAS Digital Audio Switcher



The Broadcast Tools 8x1DAS Digital Audio

Switcher routes any one of eight AES/EBU digital inputs to three buffered outputs. Programmable or last selected source memory, safety lock out, output muting, remote control/status, multi-drop RS232 and RS485 serial ports. Two versions are available: 8x1DAS/XLR-with balanced 110Ω with XLR connectors, or the 8x1DAS/BNC with unbalanced 75Ω BNC connectors.

- 8x1DAS Specify BNC or XLR \$479



Broadcast Tools ACS 4.1 Crosspoint Switcher



The Broadcast Tools ACS 4.1 is a crosspoint switcher with four stereo inputs to one stereo output. Each transparent direct-coupled audio input may be switched between IHF and professional levels, while providing VLC (Virtual Level Control) for each channel. Each channel may be faded up or down, cross-faded between channels or simply turned on and off. The four LED VU meters provide reference input level display. Other features include; active servo-balanced circuitry; stereo silence sensor; 8 input PIP port; 4 status open collectors; Unbalanced gold RCA jacks and balanced removable screw terminals; 1-U

- ACS 4.1 Crosspoint Switcher \$599.00

Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Burk LX-1 Stereo Switcher



The Burk LX-1 Stereo Switcher is designed to improve your control room

operation by reducing demands on your air console and eliminating the need to patch for alternate program sources. The LX-1 can connect to your remote control system for remote program switching • allows mixing of two studio sources, or lock-out of all audio sources • tally indications are provided for each source • start/stop pulses are available for each source • and it matches IHF or PRO inputs. 1U

LX-1 Six input stereo selector \$1,295.00

Conex AS-101

Audio Switcher

The Conex AS-101 Audio Switcher allows any one of 10 stereo sources to be switched



to the stereo output channel. Switching is accomplished by pressing one of the illuminated buttons on the front panel, or remotely, via the remote control connector on the rear panel. Several remote control devices may be connected in parallel, and all will indicate the selected channel. A compact rack-mount auxiliary unit houses a variety of optional boards including an RS232/422 interface, a relay board making possible tape deck control, and a system board allowing the AS-101 to be transformed into a simple automation system under the control of any PC. Features include connection via plug-in screw-clamp terminal blocks • Transformerless balanced inputs and outputs • and Front panel accessible input and output level controls.

- AS-101 Audio Switcher \$962.12
- AS-401 Remote control (10 channel) \$161.25
- AS-501 Relay board \$317.12
- AS-201 RS-232 interface \$209.62
- AS-44 RS-232 serial interface \$119.00
- AS-202 RS-232 expander board \$150.00
- AS-95 Auxiliary chassis \$115.00
- AS-77 AS-101 battery backup memory \$76.00

Henry StereoSwitch Stereo Audio Switcher



The Henry StereoSwitch is a three-input stereo audio switcher for use as a studio switcher, line selector, or for automatic source selection under the control of a broadcast automation system. It accepts up to three stereo balanced audio sources, selecting one to be routed to the stereo balanced output. The unit can be controlled with any momentary or maintained contact closure, open collector, TTL/CMOS logic, or DC voltage from

5-24 volts. Internal power-up programming permits the user to determine which of the three inputs is automatically selected when AC is applied. Tally outputs are provided to drive remote status indicators. Inactive sources can be automatically terminated.

StereoSwitch \$250.00

Intelix M Series Matrix Mixer

Intelix's M series are sophisticated matrix mixers with VCAs at every cross point. M Series at



a glance: VCA-based matrix mixer • up to 128x128 inputs & outputs • crosspoint level control (0 to -100dB) • intuitive PC software included • externally controllable • AC or DC power • 128 user presets • over 250 custom configurations • 2U chassis for stock models. Applications include: show control, corporate A/V, boardroom/mix-minus, retail and city council/courtroom.

Prices range from \$2,499 to \$6,275.

Intelix Studio Psychologist

Monitor Mixing System

The Intelix Studio Psychologist is a remotely controlled monitor mixing system incorporating small remote controls. Psychologist at a glance: create up to 16 unique monitor mixes from one console • each mix is performer-controlled via remote ReO mini-mixers • available in mono or stereo • ideal for headphones, floor wedges and in-ear devices • build your own system. Applications include: live touring, houses of worship, studio tracking, surround sound 5.1 production, IFB broadcast monitoring and remote FOH level monitoring.



Prices range from \$3,999 to \$11,999.

Logitek MON-10 Switcher/Meter/Monitor



The Logitek MON-10 Switcher/Meter/Monitor is great for production rooms, edit suites, remote trucks or any audio test rack. It is a one by ten stereo switcher with a full size VU meter and a 6W monitor amplifier. You can listen to right channel, left channel, L+R (mono) or L-R (out of phase check) on any of ten signal sources. The chosen signal also appears on the VU meter which has a six position meter range. The VU meter has a peak LED indicator, headphone jack as well as a front mounted monitor speaker. Logitek offers a three year warranty.

MON-10 Ten input Stereo selector/meter/monitor \$855.00

Logitek PRE-10 Input Expander



The Logitek PRE-10 is an input expander that will mechanically switch ten inputs to either of two outputs or two inputs to 10 outputs. All inputs and outputs are XLR connectors and the unit requires no power.

- PRE-10M 10 in 2 out mechanical mono switcher \$515.00
- PRE-10S 10 in 2 out mechanical stereo switcher \$560.00
- PRE-6S 6 in 1 out mechanical stereo switcher, desktop \$125.00

Radio Design Labs RU-SX4



Remote Controlled Audio Switching

The Radio Design Labs RU-SX4 could be used anywhere you need remote controlled audio switching, multiple switching control points, 4 inputs to 1 output, line-level audio switching, balanced/unbalanced I/O, and gain trim on each source. The inputs are all bridging, allowing connection from either high or low impedance sources.

RU-SX4A \$264.00

Radio Design Labs 84 A & B

Audio Mixing Matrix

The Radio Design Labs 84 A & B Audio



Mixing Matrix could be used anywhere you need studio quality audio routing and mixing. Features include: 8 in by 4 out with direct mix capability • pull-to-ground or computer I/O card activation • stereo or mono models available. Application: 32 discrete 5Vdc control lines provide manual or PC control of 8 input to 4 output audio mixing, switching and routing. Multiple audio channels may be summed or soft-switched with exceptional low distortion, low noise, frequency response and attenuation. 1U

SYS84-A Model A 8x4 Stereo Audio Mixing Matrix \$1,020.00
SYS84-B Model B 8x4 Mono Audio Mixing Matrix \$802.00

Sierra Automated Systems (SAS) 16000



Audio Routing Switcher

The SAS 16000 Audio Routing Switcher is a high performance microprocessor based audio switching system for use in professional broadcast installations. The SAS 16000 brings SAS quality and reliability to the broadcast plant which requires 32 X 16 or 32 X 32 matrix, all at a very attractive price. The unit is housed in a two rack unit chassis, and provides alphanumeric controls on the front panel. The system comes complete with stereo partitioning PC software which allows any pair of sources and/or destinations to be programmed for stereo operation. Two units may be stacked to allow 32 X 32 stereo operation. The SAS 16000 is compatible with the complete range of SAS rack mounted and console control panels, with full alphanumeric or push-button capability.

Please call Broadcasters General Store for more information and pricing.

SAS 64000 Audio Routing Switcher

The SAS 64000 Audio Routing Switcher is a high performance microprocessor controlled audio switching system designed for large-scale professional broadcast facilities. Implementation of the latest analog LSI technology has created an uncompromised level of performance and exceptionally high packaging density: 256 X 256 in one equipment frame; 256 X 256 all stereo in only two frames. It can be configured to operate as a mono, stereo or a mixed mono/stereo system. The control software allows adjacent inputs or outputs to be linked as stereo pairs and treated as one source or destination. Stereo linking provides a flexible and convenient solution for facilities which have both stereo and mono sources and destinations to manage. The central frame is 14U and houses all input and output modules, frame controller and plug-in power supplies. Features include: 118dB enhanced dynamic range • +28dBu Maximum input/output levels • Wide selection of control panel options • Multi-point RS-232 & RS-422 interfaces included • and Dual redundant modular power supplies.



Please call Broadcasters General Store for systems configurations and pricing!

SAS 32000

Stereo Automated Routing & Mixing System



The SAS 32000 Stereo Automated Routing & Mixing System Series sets the standard for audio routing in professional broadcast facilities. The flexible system architecture and rugged design allow for use in a broad range of applications, even critical transmission path routing. The system is modular and easily expanded. The heart of the SAS 32000 is a 32 stereo input/16 stereo output switching subsystem housed in three rack units. Each frame houses all input amplifiers, crosspoint cards, output amplifiers and redundant power supplies as required for a complete system. For larger systems these building blocks are simply connected together. SAS provides a comprehensive range of rack mount and vertical console mount control panels. Each system comes complete with RS-232 ports for system programming and computer control. Complete 32 X 16 Stereo System including Central XY control and RS-232 approx. \$16,920.00.

We'd be happy to provide complete information!

SAS GPI-1600 Salvo Sequence Generator



SAS GPI-1600 Salvo Sequence Generator is a compact general purpose automation system that can be integrated with the SAS audio routing systems.

It contains 16 form C relays for general purpose machine control and RS-232 serial input for station time synchronization. Event programming is menu driven via an RS-232 bus connected to a PC/terminal. The unit stores up to 1000 events and provides a seven day programming schedule. The GPI-1600 is a useful tool for capturing news feeds, reel recording machines and other time-based events.

Sine Systems ACU-1 Audio Control Unit

The Sine Systems ACU-1 is an eight balanced stereo input by one stereo output audio switcher with level control capabilities via RS232 commands. Input selection can be programmed to interlock or mix. The system also incorporates silence sensors, parallel logic inputs, multiplex outputs, control relays, a clock/calendar and an optional temperature sensor. While the switcher can be operated manually, the maximum power and flexibility is achieved by connecting one or more ACU-1's to a single serial data port of a host computer. The simple ASCII command structure allows for rapid development of very powerful "one-of" customized automation systems. Front panel indicators include left and right VU meters, channel selection indicators and left and right silence alarm status indicators. Rear panel screw terminal connectors are mounted on removable connectors.



ACU-1 Audio Control Unit \$1,650.00

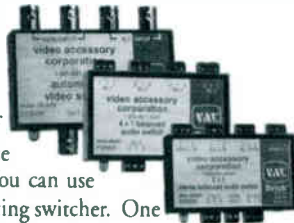
Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com

VAC Automatic Video Switches

You can use the VAC Automatic Video Switch to set up a continuous video feed to be overridden by another video source when it becomes active. If you need to switch audio along with the video, use the Stereo Balanced/ Balanced Audio Switch. You can use five 4X1 Video Switches to configure a 16X1 routing switcher. One hexadecimal switch can control all five bricks to act as a single 16X1 unit.



- VB/AVS Automatic Video Switch 2 in, 1 out • automatically switches to alternate source if main source fails. • senses sync-tips at main input • can be connected to the AB/S2X1 for automatic audio-follow-video switching. \$250.00
- AB/S2X1 Stereo Balanced Audio Switch 2 in, 1 out, stereo balanced audio switch \$216.00
- VB/4X1 4X1 Video Switch 4 in, 1 out • remote or local control port • can be connected to the AB/4X1 for automatic audio-follow-video switching \$216.00
- AB/4X1 Balanced Audio Switch 4 in, 1 out, balanced audio switch \$216.00
- VBRM6 Holds 5 or 6 Bricks \$149.00

Wohler ARS



The Wohler ARS features a versatile, modular design that can be configured with up to twenty stereo inputs with two stereo outputs; or as a matrix switch with up to four stereo inputs and four stereo outputs. Normal output is balanced. An optional single pair of level meters or single phase/polarity indicator may be added to the Audio Routing Switcher. Rack mounted installation in a single rack space with simple rear connections by way of European style plug-in, screw-clamp terminal blocks. Also Note: One PH-1 or pair of LV-1 level meters may also be installed in an ARS chassis to monitor a selected source's phase/polarity or level. Please call for prices on these modules.

Analog Audio Routing Switchers (Source Selection)

- ARS-11 5 stereo inputs to 1 stereo output \$525.00
- ARS-12 Selects one of five 4-channel groups \$875.00
- ARS-13 Selects one of five 6-channel groups. \$895.00
- ARS-14 Selects one of five 8-channel groups. \$885.00
- ARS-21A 5 mono inputs to 2 independent outputs \$560.00
- ARS-21B 10 mono inputs to 1 stereo output \$570.00
- ARS-21C 2 independent groups of (5 mono ins to 1 mono out) \$580.00
- ARS-22A 5 stereo inputs to 2 independent stereo outputs \$750.00
- ARS-22B 10 stereo inputs to 1 stereo output \$770.00
- ARS-22C 2 independent groups of (5 stereo ins to 1 stereo out) \$780.00
- ARS-42A 5 mono inputs to 4 independent outputs \$850.00
- ARS-42B 10 mono inputs to 2 independent outputs \$850.00
- ARS-42C 2 independent groups of (5 mono ins to 2 independent outs) \$890.00
- ARS-42D 20 mono inputs to 1 output \$890.00
- ARS-42E 2 independent groups (10 mono in to 1 out each) \$1,095.00
- ARS-44A 5 stereo inputs to 4 independent stereo outputs \$1,095.00
- ARS-44B 10 stereo inputs to 2 independent stereo outputs \$1,160.00
- ARS-44C 2 independent groups of (5 stereo ins to 2 ind. stereo outs) \$1,050.00
- ARS-44D 20 stereo inputs to 1 stereo output \$1,250.00

AES/EBU Digital Audio Routing Switchers (Source Selection)

- ARS-D81 ... 8 AES/EBU inputs to 1 AES/EBU output, BNC connectors std. \$825.00
- ARS-D82 ... 8 AES/EBU inputs to 2 AES/EBU output, BNC connectors std. \$975.00
- ARS-D161 .. 16 AES/EBU inputs to 1 AES/EBU output, BNC connectors std. ... \$1,260.00

Ward-Beck POD2 6x1 Stereo Switcher



The Ward-Beck POD2 is a unity gain six by one stereo audio switcher. Connections to POD2 are on the rear panel via two rows of screw terminal blocks. POD2 operates as either a one of six switchers or, in the SUM mode, as a selective multi-input mixer.

- POD2 6x1 Stereo Switcher \$375.00

Ward-Beck POD9 6x1 Video Switcher

The Ward-Beck POD9 is a six by one video selector with remote control capabilities. It can be used in conjunction with the POD2 (above) or the POD10 (below) for audio follow video applications.



- POD9 6x1 Video Switcher \$375.00

Ward-Beck POD10 Digital 6x1 AES3 Switcher

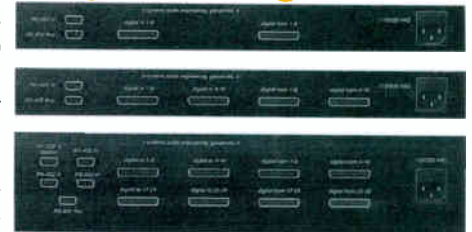
The Ward-Beck POD10 is a six by one interlocking digital audio switcher. Connections to POD10 are on the rear panel via screw terminal blocks or BNC connectors. These connections contain six transformer balanced inputs and two transformer balanced outputs.



- POD10 Digital 6x1 AES Switcher \$425.00

Z~Systems z8.8 Digital Detangler

The Z-Systems z8.8 Digital Detangler is a digital audio patchbay, router, distribution amplifier, and format converter all in one box. Z-Systems offers an inexpensive solution to digital audio integration for those who own more than a few



pieces of digital audio gear and are tired of the tangles of cables, mismatched connectors, and plugging and unplugging to reconfigure their system. The z-8.8 can connect up to 8 digital audio sources and 8 digital audio destinations reconfiguring "who speaks to whom". The z-8.8 comes standard with 8 AES/EBU I/O ports, but custom configurations can be built to suit your needs (totaling 8, of course). The Z-16.16 digital detangler can be custom configured, just like the z-8.8, but has 16 input and output ports. The z-16.16 digital detangler can be controlled from both the front panel and a hardware remote control or computer control interface (Mac or PC)



Z~Systems Digital Detangler Pro Series



The Z-Systems Digital Detangler Pro Series includes the z-8.8r, z-16.16r and z-32.32r. Each is an automated patchbay, an AES/EBU router, and a distribution amplifier all in one package. Once you hook up all of your digital audio I/O's, the connection pattern is then established by the touch of a few buttons on the z-rrc router remote control or computer control interface (Mac and Windows available).



- z-8.8 Eight to eight switcher \$980.00
- z-8.8 Custom configurations \$1,080 to \$1,325.00
- z-16.16 16 to 16 switcher \$2,200.00
- z-8.8r Pro Series, 8 stereo pairs in & out \$1,100.00
- z-16.16r Pro Series, 16 stereo pairs in & out \$1,600.00
- z-32.32r Pro Series, 32 stereo pairs in & out, 2U \$5,000.00
- RM Remote control for 8.8r, 16.16r and 32.32r \$495.00
- M1 Router Mac/PC software/interface cable, single user \$210.00

Inovonics WebCaster

The Inovonics WebCaster provides optimum audio preprocessing for Internet "streaming audio." AGC, 3-band compression, EQ, limiting and low-pass filtering tailor full range program sources for the restricted bandwidth of Web audio.



WebCaster \$1,850.00

Omnia-3net

The New Omnia-3net features: 48kHz sampling • multi-band processing • digital audio I/O's • a removable PC card that simplifies software changes • algorithms optimized for realtime processing of coded audio • Ethernet and RS-232 ports • and processing presets thoughtfully designed to ensure spectral balance at common bitrates. Remote control is available with an optional PCMCIA modem card and Windows®-based software.

Omnia-3net #4300-2000, See Page 7 for more information \$3,580.00

Orban Optimod 6200 DAB, DTV, and Webcasting

The Orban Optimod 6200 provides a unique multi-purpose platform for the special demands of audio processing in the new era of digital transmission and distribution: DAB, Webcasting and two-channel DTV. The 6200 offers digital two-band or five-band processing and a transparent "look-ahead" limiter for absolute protection against digital clipping. Features include LESS/MORE control; user-defined presets; remote control and computer control via modem. Variable bandwidth capabilities let you match the 6200 to your needs from 4kHz to 20kHz full fidelity. Input sample rates automatically selected: 32, 44.1, 48kHz. Inputs: AES/EBU (20-bit resolution). AES/EBU sync, and electronically balanced stereo analog (XLR). Output sample rates, software selectable: 32, 44.1, 48kHz. Outputs: AES/EBU and analog monitor (XLR). 2U & 13.5lbs.

6200 for DAB, DTV, and Webcasting \$5,950.00

Sonic Foundry Sound Forge® 4.5 Software

Sonic Foundry Sound Forge® 4.5 software for Windows® can be used to create an exciting, digital-quality web site that will blow away your competition. Conduct music testing using your web site, NetShow and Sound Forge 4.5. Deliver great sound quality for web site visitors who will love the opportunity to have real input into the programming of their favorite radio station. The potential for demographic research is unlimited!



Telos Systems applies professional audio broadcasting standards to the Internet.....

Telos Audioactive Internet Audio Suite



The Audioactive Internet Audio Suite is a professional hardware and software system that makes it easy to provide both real-time and stored audio streams for Internet and Intranet applications. The Telos ISO MPEG Layer 3 based systems offer high fidelity encoding for the transmission of audio over digital networks. Telos is committed to open-standards, working cooperatively with the leading computer industry vendors to create solutions that combine our expertise in digital audio and broadcasting with state-of-the-art Internet and software technologies.

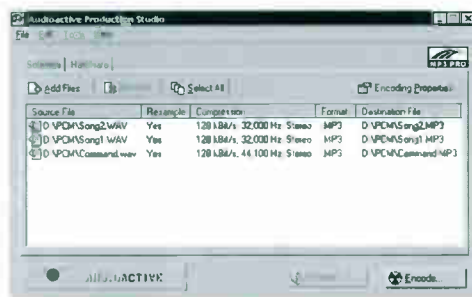
Telos Audioactive MPEG Realtime Encoder

The Telos Audioactive MPEG Realtime Encoder features and benefits include: integration with Microsoft's NetShow Services and RealNetwork's RealSystem G2 • MP3 compression • professional equipment • audio encoding is not constrained by the processing limitations of a PC • best-possible quality at the conversion stage with a pro-grade 18-bit analog-to-digital converter • balanced analog (XLR) or digital (AES/EBU) inputs • audio outputs are via TCP/IP or RS-232 • front panel LCD and LED input metering • adjust bitrates and settings via front panel control or a dedicated RS-232 port • built-in soft-limiter circuit to prevent harsh audio clipping • multiple encoders can be connected to a single server • integrates with Audioactive Production Studio for realtime audio source-to-file MP3 compression • and included Audioactive NetSuite CD-ROM featuring the Multimedia Driver, Microsoft NetShow Services and the Audioactive Production Studio Software.

MPEG Realtime Encoder \$2,800.00

Telos Audioactive Production Studio Pro 2.0

The Telos Audioactive MP3 Production Studio features and benefits include: automatic CD ripping • automated FTP file uploads • supports multiple file output formats such as MP3, ASF, Shockwave, or compressed WAV • very high-quality encoding option, for when fidelity is more critical than speed, or fast encode option for when speed is most critical • output bitrates from 8-256kbps • convenient batch processing, with ability to set encoding properties universally or individually • resampling capability • encoding preview button • latest MPEG 2.5 extensions for low bitrate encoding • bitrate-driven calculator tool to determine file size • MP3-to-WAV decoder tool to reconvert back to WAV • enables direct automation of encoding process via command-line or scripts • drag-and-drop capability to quickly add files to the encoding list • encodes background • and is available for Windows 95/NT.



MP3 Production Studio \$149.95

Microphones



Microphones	Item #	Application	Transducer	Note 1 Pattern	Z-	Freq. Range	Sensitivity	Weight or Length	Windscreen	Stand Adapter	Shock Mount	Other Accessories	Price
AKG C391B	2	Studio	Condenser	C	200	20-20k	10mV	9 oz.	W90*	SA40*	H38	Req'd-Phantom Pwr.	\$462.00
AKG C400BL	6	Boundary Layer	Condenser	HC	200	40-14k	13.5mV	.2 oz.	—	—	—	Req'd-Phantom Pwr./ Supplied w/Mt. Plate/Paintable	\$133.00
AKG C414BULS	3	Studio	Condenser	O/C/B/HC	180	20-20k	12.4mV	11 oz.	W414*	SA18/3	H100*	Req'd-Phantom Pwr.	\$1,100.00
AKG C426B	8	Stereo	Condenser	MS	200	30-20k	11mV	16.6 oz.	W426*	Included	H15/33*	Carrying Case Included/ Opt. H7/Pistol Grip \$124	\$4,944.00
AKG C480B-CK61	4 & 10	Studio	Condenser	C	150	20-20k	<20mV	4.5 oz.	W32*	SA40*	H30	Opt./ SA18/2 Heavy duty Stand Adapter S217	\$987.00
AKG C1000S	9	Performance	Condenser	C/HC	200	50-20k	6mV	9.7 oz.	W1000	SA43*	H30	PPC1000 Polar Pattern Converter & PB1000 Presence Boost Adapter Both Included	\$312.00
AKG C3000B	11	Studio	Condenser	C	200	20-20k	20mV	11.3 oz.	W414	SA41/1*	H100*	Req'd-Phantom Pwr.	\$520.00
AKG C4000B		Studio	Condenser	C/HC/O	200	20-20k	20mV	16 oz.	WA4000*	—	H100*	Req'd-Phantom Pwr.	\$740.00
AKG D230	12	ENG/EFP	Dynamic	O	320	40-20k	2.5mV	8 oz.	W23	SA44*	H30	Integral Windscreen Included	\$164.00
AKG D880 Emotion	13	Performance	Dynamic	HC	600	60-20k	52dBv	10 oz.	W880*	SA41/1*	H30	Carrying Case Included	\$142.00
Alesis AM11		Studio	Condenser	C	500	20-18k	25mV	14 oz.	—	—	SM2		\$399.00
Alesis AM30		Studio	Condenser	C	500	20-18k	26mV	12 oz.	—	—	SM3		\$499.00
Alesis AM40		Studio	Condenser	C	500	20-18k	28mV	12 oz.	—	—	SM3		\$799.00
Alesis AM51		Studio	Condenser	C	500	20-18k	32mV	1.5 lbs.	—	HM1*	SM1		\$549.00
Alesis AM52		Studio	Condenser	C/O/B	500	20-18k	32mV	1.5 lbs.	—	HM1*	SM1		\$699.00
Alesis AM61	15	Studio	Condenser	C	500	20-20k	35mV	1.5 lbs.	—	HM1*	SM1*		\$999.00
Alesis AM62		Studio	Condenser	CHCOB	500	20-20k	35mV	1.5 lbs.	—	HM1*	SM1*		\$1,299.00
Audio-Technica AT803b	17	Lavalier	Condenser	O	200	20-20k	-42dB	.8"	AT8116*	—	—	AT8530 Pwr. Module Clothing Clip included	\$190.00
Audio-Technica AT804		ENG/EFP	Dynamic	O	600	50-15k	3.5mV	8 oz.	AT8108*	AT8405*	AT8415	No Cable	\$110.00
Audio-Technica AT815b	7	Shotgun	Condenser	L	500	30-20k	12.5mV	7.1 oz.	AT3135*	AT8405*	AT8415		\$399.00
Audio-Technica AT822		Studio	Condenser	XY	200	30-20k	5.6mV	5.8 oz.	AT8120*	AT8405*	AT8415	Camera Mt. Included	\$399.00
Audio-Technica AT825	14	Stereo	Condenser	XY	200	30-20k	4.5mV	8.5 oz.	AT8120*	AT8405*	AT8415		\$525.00
Audio-Technica AT835B		Shotgun	Condenser	L	500	40-20k	12.5mV	8 oz.	AT8132*	AT8405*	AT8415	CP-8506, 4-Ch. Power Supply	\$329.00
Audio-Technica AT857QMa	1	Gooseneck	Condenser	C	200	30-20k	7mV	4.2 oz.	AT8102*	—	AT8646QM		\$260.00
Audio-Technica MT830R		Lavalier	Condenser	O	200	40-20k	-34dB	.62"	AT8130*	—	—	Included/AT3533 Pwr. Module 25' Cable & Clothing Clip	\$200.00
Audio-Technica AT4033a/SM	16	Studio	Condenser	C	100	30-20k	25.1mV	14.5 oz.	AT8137	AT8430	AT8441*		\$495.00
Audio-Technica AT4050/CM5	18	Studio	Condenser	C/O/B	100	20-20k	15.8mV	19.9 oz.	AT8137	AT8430	AT8441*		\$995.00
AUDIX OM3xb	19	Performance	Dynamic	HC	250	50-18k	-71.5dB	10.5 oz.	—	MC1*	—		\$199.00
AUDIX CX101	5	Studio	Condenser	C	200	20-20k	16.5mV	17 oz.	—	—	—		\$499.00
AUDIX OM-6		Studio	Condenser	C	200	40 20k	-69dB	10.5 oz.	—	MC1*	—		\$329.00

Key -

Note 1 - Pattern: C=Cardioid HC=Hypercardioid L=Lobar 8=Figure 8 MS/XY=Stereo O=Omnidirectional
 Note: Sensitivity in dB's or mV/Pa, where 0dB=1V/microbar & 1mV/Pa=10mB/microbar



1-352-622-7700



Microphones



Microphones	Item #	Application	Transducer	Pattern	Z-	Freq. Range	Sensitivity	Weight or Length	Windscreen	Stand Adapter	Shock Mount	Other Accessories	Price
Avlex AVS20	16	Performance	Dynamic	SuperC	60	40-15k	-48dB	15.4 oz.	—	Included	—		\$289.99
Avlex AVS21	17	Performance	Dynamic	C	600	50-18k	-75dB	6.6 oz.	—	Included	—		\$204.99
Avlex AVS77	18	Broadcast	Condenser	C	200	30-20k	16.5mV	17.6 oz.	Included	Included	—		\$479.99
Avlex AVS80	19	Studio	Condenser	C	200	20-20k	16.5mV	17.0 oz.	AVS80-WS	AVS80-STM	AVS80-SHM		\$329.99
Avlex C133	20	Performance	Condenser	C	160	50-18k	-60dB	6.2 oz.	IM1-WS	SA2*	—		\$164.99
Avlex DV73	21	Performance	Dynamic	C	250	50-15k	-72dB	12.2 oz.	VM1-WS	SA1*	—		\$114.99
Beyerdynamic M01	4	Performance	Dynamic	HC	600	50-15k	-58dB	9.9 oz.	—	MKV8*	—	Internal Rubber Shock Mt.	\$109.00
Beyerdynamic M58	6	ENG/EFP	Dynamic	O	200	40-20k	1.3mV	9.1 oz.	WS58*	MKV8*	—		\$279.00
Beyerdynamic MC836PV		Shotgun	Condenser	L	180	40-20k	30mV	7 oz.	WS716	MKV11	EA736	Kit.736 includes/Mic/Rycote Zepplin/Pistol Grip/Flight Case \$2,159	\$1,099.00
Beyerdynamic MC837PV		Shotgun	Condenser	L	180	40-20k	30mV	15.5 oz.	WS717	MKV11	EA737	Kit.793 includes/Mic/Rycote Zepplin/Pistol Grip/Flight Case \$2,499	\$1,479.00
Beyerdynamic MC740	7	Studio	Condenser	O/C/B	150	40-20k	10mV	14.5 oz.	WS740	MKV11*	EA740	PS740 Pop Shield \$89	\$1,899.00
Beyerdynamic MC834	8	Studio	Condenser	C	180	20-20k	20mV	10.4 oz.	WS740	MKV11	EA834		\$999.00
Beyerdynamic MCE5.15	1	Lavalier	Condenser	O	200	20-20k	14mV	1.1"	ZWS-5*	—	—	MKV5/1 Tie Clip & MHV5 Supply Clip included	\$439.00
Beyerdynamic MCE7.15	9	Lavalier	Condenser	O	2k	20-20k	28mV	.7"	—	—	—	XLR Pre-Amp Included	\$499.00
Beyerdynamic MCE86.1	15	Shotgun	Condenser	L/H/C	180	50-18k	4.2	10"	—	MKV8	—		\$429.00
Beyerdynamic TG-X50MKII	14	Studio	Dynamic	HC	280	15-18k	-50dB	13.6	—	MKV8*	—		\$279.00
CAD Equitek E200		Studio	Condenser	O/C/B	200	10-18k	17.8mV	12 oz.	WS-1	SM-1*	ZM-1		\$749.00
CAD Equitek E350		Studio	Condenser	O/C/B	200	10-20k	17.8mV	29.8 oz.	WS-1	SM-1*	ZM-1		\$899.00
Crown GLM100	2	Lavalier	Condenser	O	150	80-20k	-53.5dB	.8"	WS2*	—	—	GLM-TB Tie Bar/ GLM-UM Universal Mt. Included	\$209.00
Crown CM310A		Performance	Condenser	C	200	80-15k	1.7mV	7.3"	WS4*	ASA2*	—		280.00
Crown PZM30D	3	Boundary Layer	Condenser	HC	150	20-20k	-43dB	5"x6"	WSPZML*	—	—		\$369.00
Electro-Voice RE-1000	10	Studio	Condenser	HC	250	70-18k	-39dB	14.1 oz.	20/421	—	325	Hard Shell Case/Stand Adapter Included	\$598.00
Electro-Voice 635A	11 & 12	ENG/EFP	Dynamic	O	150	80-13k	-55dB	6 oz.	314E	311*	307A	Note 635A/B for Black 6-Pack w/o Accessories \$960	\$158.00
Electro-Voice 635N/D-B		ENG/EFP	Dynamic	O	150	80-13k	-51dB	6 oz.	314E	311*	307A		\$178.00
Electro-Voice 649B		Lavalier	Condenser	O	150	80-10k	-61dB	2.25"	70399	—	—	Belt Clip & Neck Cord	\$262.00
Electro-Voice RE90L	5	Lavalier	Condenser	O	100	50-18k	12.6mV	.5 lbs.	—	—	—	Tie Clip/6 ft. Shielded Cable Included	\$218.00
Electro-Voice ENG618		ENG/EFP	Condenser	HC	100	50-8k	-55dB	2 lbs.	Included	—	—	Includes K-Tek Pole	\$1,398.00
Electro-Voice RE16	13	ENG/EFP	Dynamic	HC	150	80-15k	-55dB	8 oz.	379	312*	307A		\$318.00

Key-

Note 1 - Pattern: C=Cardioid HC=Hypercardioid L=Lobar B=Figure 8 MS/XY=Stereo O=Omnidirectional
 Note: Sensitivity in dB's or mV/Pa, where 0dB=1V/microbar & 1mV/Pa=10mB/microbar



Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Broadcasters General Store phone 352-622-7700

World Radio History

Microphones



Microphones	Item #	Application	Transducer	Pattern	Z-	Freq. Range	Sensitivity	Weight or Length	Windscreen	Stand Adapter	Shock Mount	Other Accessories	Price
									* Denotes Item Supplied with Mic				
Electro-Voice RE20	15	Studio	Dynamic	C	150	45-18k	1mV	26 oz.	20/421	320*	309A		\$748.00
Electro-Voice RE27N/D	18	Studio	Dynamic	C	150	45-20k	3.1mV	27 oz.	20/421	320*	309A		\$798.00
Electro-Voice RE50/B	1	ENG/EFP	Dynamic	O	150	80-13k	-55dB	9.5 oz.	379	323*	—		\$238.00
Electro-Voice RE50N/D-B		ENG/EFP	Dynamic	O	150	18-13k	-51dB	9.5 oz.	379	323S*	—		\$258.00
Neumann KM184	17	Studio	Condenser	C	50	20-20k	11mV	2.75 oz.	WNS100*	SG21/17*	EA2124A	Nickel Finish	\$729.00
Neumann M147	14	Studio	Condenser	C	50	20-20k	20mV	16.25 oz.	WS87	SG1*	EA1	Tube Microphone	\$1,995.00
Neumann U87a/Set Z		Voice/Studio	Condenser	O/C/8	200	20-20k	28mV	17.5 oz.	WS87*	SG87	EA87*	Cable*, Briefcase	\$3,200.00
Neumann TLM103	13	Studio	Condenser	C	50	20-20k	21mV	17.5 oz.	WS87	SG1*	EA1	Nickel Finish	\$995.00
RODE NT1		Studio	Condenser	C	200	20-20k	18mV	11.4 oz.	—	RM1*	SM1		\$349.00
RODE NT2		Studio	Condenser	O/C	200	20-20k	16mV	19 oz.	Included	—	SM1*		\$649.00
RODE Broadcaster		Studio	Condenser	C	200	20-20k	18mV	19 oz.	—	VM1*	SM1	"On Air" Indicator	\$599.00
RODE Classic II		Studio	Condenser	All	250	20-20k	13mV	2.2 lbs.	—	Included	SM1	Includes Flight Case & P/S	\$1,999.00
Sennheiser E825S	2	Performance	Dynamic	C	350	80-15k	1.5mV	11.8 oz.	—	MZQ800*	—	On/Off Switch	\$129.00
Sennheiser E835	3	Performance	Dynamic	C	350	40-16k	2.7mV	11.8 oz.	—	MZQ800*	—		\$159.00
Sennheiser E855	4	Performance	Dynamic	HC	350	40-18k	1.8mV	11.8 oz.	—	MZQ800*	—		\$299.00
Sennheiser MD421II	20	Studio	Dynamic	C	200	30-17k	2mV	30 oz.	MZW421	MZA421*	MZS421		\$485.00
Sennheiser MD441U	19	Studio	Dynamic	HC	200	30-20k	1.8mV	34 oz.	MZW441	MZA441	MZS100	MZQ441 Quick Disconnect S33	\$895.00
Sennheiser ME66/K6		Shotgun	Condenser	HC/L	200	50-20k	35mV	8.7 oz.	MZW66	MZQ200	MZS20-1	MZW60-1 Blimp W/S \$280	\$565.00
Sennheiser ME67		Shotgun	Condenser	HC/L	200	50-20k	35mV	13.5 oz.	MZH70-1 MZH200 MZQ67	MZS200	MZS20-1 MZS6	MZW60-1 Blimp W/S \$280	\$335.00
Sennheiser MKE2-60 Gold	6	Laviler	Condenser	O	200	20-20k	10mV	.3"	MZW102	—	—		\$350.00
Sennheiser MKE102-60	5	Laviler	Condenser	O	200	40-20k	8mV	1"	MZW102	—	—		\$357.00
Sennheiser MKH70-P48	12	Shotgun	Condenser	HC/L	150	50-20k	50mV	16"	MZW70-1	—	MZS20-1	MZH70-1 Wind Coat \$195	\$1,850.00
Sennheiser MKH416-P48U3	21	Shotgun	Condenser	HC/L	400	40-20k	25mV	18 oz.	MZH60-1 MZH415 H816	MZQ100	MZS20-1	MZW60-1 Blimp W/S \$280	\$1,275.00
Shure BG3.1	7	Performance	Dynamic	C	150	60-14k	1.78mV	11 oz.	A58WS	A25C*	A53HM		\$140.25
Shure BG4.1	8	Performance	Condenser	C	600	40-18k	4mV	9 oz.	A3WS	A25C	A53HM	PS1A Phantom PS \$165	\$280.50
Shure BG5.1	9	Performance	Condenser	C	600	70-16k	3.5mV	9 oz.	A85WS	A24C*	A53HM	PS1A Phantom PS \$165	\$280.50
Shure BETA57A	10	Performance	Dynamic	HC	150	70-16k	-72dB	9 oz.	A57AWS	A25C*	A55HM		\$237.95
Shure BETA58A		Performance	Dynamic	HC	150	50-16k	-71.5dB	9 oz.	A58WS	A25C*	A55HM		\$288.85
Shure BETA87A	11	Performance	Condenser	HC	150	50-16k	-74dB	6 oz.	A85WS	A25C*	A53HM	PS1A Phantom PS \$165	\$445.08
Shure KSM32/SL		Studio	Condenser	C	150	20-20k	16mV	17.3 oz.	A32WS	A32M*	A32SM*	Includes Alum-Case	\$1,029.00
Shure MX183		Lavalier	Condenser	HC	150	50-17k	-48dB	1"	RK183WS	—	—	RK183T2 Dual Mt. Tie Clip (Contains 1) \$15.38	\$266.00



1-352-622-7700



Microphones



Microphones	Item #	Application	Transducer	Note 1 Pattern	Z-	Freq. Range	Sensitivity	Weight or Length	Windscreen	Stand Adapter	Shock Mount	Other Accessories	Price
Shure MX184		Lavalier	Condenser	HC	150	50-17k	-52.5dB	1"	RK183WS*	—	—	RK183T1 Single Mt. Tie Clip (Contains 2) \$18.23	\$296.00
Shure MX393/C	1	Boundary Layer	Condenser	C	150	50-17k	-47dB	3"x4.25"	—	—	—	Includes 10' Cable	\$336.00
Shure MX412/C	4	Gooseneck	Condenser	C	150	50-17k	-63.5dB	12"	A412MWS	—	Included	A412B Base \$71.67	\$296.00
Shure SM7A	5	Studio	Dynamic	C	150	40-16k	-79dB	27 oz.	RK345*	A25C*	C25B		\$595.68
Shure SM11CN	2	Lavalier	Dynamic	C	150	40-16k	-85dB	1.5"	RK184WS	—	—		\$142.60
Shure SM57LC	6	Performance	Dynamic	C	150	40-14k	-56.5dB	10 oz.	A2WS	A25C*	A55M		\$146.00
Shure SM58LC	7	Performance	Dynamic	C	150	50-15k	-56dB	10.5 oz.	A58WS	A25C*	A55M		\$188.00
Shure SM63L	8	ENG/EFP	Dynamic	O	150	50-20k	-56.5dB	4.3 oz.	RK229WS*	AS57D*	A53M	9-1/4" Long	\$216.34
Shure SM87A	9	Performance	Condenser	HC	150	50-18k	-52.5dB	7 oz.	A85WS	A25C*	A53M		\$357.71
Shure SM89	3	Shotgun	Condenser	L	150	60-20k	-53dB	6.9 oz.	RK257WS	A57E	A89SM		\$1,134.65
Shure SM93	15	Lavalier	Condenser	O	150	80-30k	-63dB	4"	49A150*	—	—	Opt/Dual Clip 90C4327	\$238.68
Shure VP64A	10	ENG/EFP	Dynamic	O	330	50-12k	-52dB	7-7/8"	49C55*	A57E	A53M		\$120.36
Shure VP64AL	11	ENG/EFP	Dynamic	O	330	50-12k	-52dB	9-5/8"	49C55*	A57E	A53M		\$140.76
Shure VP88	12	Stereo	Condenser	MS	150	40-20k	-66dB	14.7 oz.	90A4163	90B4046*	A88SM		\$1,217.88
Sony C48	13	Studio	Condenser	O/C/8	250	30-16k	-41dB	20 oz.	—	—	—		\$1,550.00
Sony C74		Shotgun	Condenser	HC	250	40-16k	-38dB	12.8 oz.	AD-74	—	—	GP5 Hand Grip \$174	\$1,250.00
Sony C76	14	Shotgun	Condenser	HC	250	40-16k	-38dB	14.4 oz.	AD-76	—	—	GP5 Hand Grip \$174	\$1,450.00
Sony ECM-44B	18	Lavalier	Condenser	O	250	40-15k	-53dB	.6"	AD-R44	—	—	SADH is a Horizontal Single Clip, Blk. (10) \$75	\$255.00
Sony ECM-55B	17	Lavalier	Condenser	O	100	30-18k	-52dB	.8"	AD-R55*	—	—	SADS is a Safety Pin Clip, Satin Nickel (6) \$88	\$410.00
Sony ECM-66B	19	Lavalier	Condenser	C	100	70-14k	-50dB	.95"	AD-R66*	—	—	SADW is a Horizontal Double Clip, Blk. (6) \$75	\$465.00
Sony ECM-77B		Lavalier	Condenser	O	150	40-20k	-50dB	.5"	AD-R77*	—	—		\$465.00
Sony ECM-510		ENG/EFP	Condenser	O	250	40-17k	3.16mV	4.4 oz.	X254201*	A450801*	N/A		\$465.00
Sony ECM-MS5	16	Stereo	Condenser	MS	150	70-20k	-40dB	7.6 oz.	AD-72	A450818A*	N/A	Opt/DCM-M55 Pwr. Adapter	\$1,550.00
Sony ECM-MS957		Stereo	Condenser	MS	600	50-18k	-42dB	11.5 oz.	Included	Included	—		\$299.99
Telex ELM-22S		Lavalier	Condenser	O	150	20-20k	-35dB	.75"	WS-E	—	—		\$205.00
Telex ELM-33S		Lavalier	Condenser	C	150	20-20k	-35dB	.7"	WS-E	—	—		\$212.00
Telex SE-60		Studio	Condenser	C	600	30-19k	-50dB	8.8 oz.	—	Included	—	ME-25 Cable \$37	\$180.00
Telex TD-22		Performance	Dynamic	C	250	35-19k	-71dB	9.3 oz.	—	Included	—	ME-25 Cable \$37	\$139.00
Telex TD-26		Performance	Dynamic	HC	250	30-19k	-71dB	9.5 oz.	—	Included	—	ME-25 Cable \$37	\$155.00

Key—

Note 1— Pattern: C=Cardioid HC=Hypercardioid L=Lobar 8=Figure 8 MS/XY=Stereo O=Omnidirectional
 Note: Sensitivity in dB's or mV/Pa, where 0dB=1V/microbar & 1mV/Pa=10mB/mlcbar



Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Broadcasters General Store phone 352-622-7700

World Radio History

Microphones • Accessories

Big Ears™

Big Ears™ is a true parabolic reflector capable of picking up sounds from well over 200 feet away. It is constructed from a patented plastic material, so that the integrity of the shape is maintained as well as the thickness, which produces sonic consistency and also visual, see-through clarity for the operators. The Big Ears™ uses a one piece foam vinyl covered grip bar that also acts as a support bar for freestanding use. The dish is shatter and break resistant, lightweight, and can easily be mounted permanently. 25-1/2"x26-1/2"x10" overall, parabolic 23", weighs 5 lbs. Colors: Yellow, orange, blue, green, bronze & clear. All dishes are see-through.



BE-3	Big Ears™	\$1,249.00
DS-1	Strap complete with pads	\$25.00
RD-1	Targeting Sight	\$69.00
WG-1	Silent Gloves	\$9.00
SC-1	Shipping Case	\$289.00
CC-1	Carrying Case	\$149.00
BE-3K	BE-3 w/DS-1, RD-1, WG-1, SC-1 & CC-1	\$1,549.00

Fishpoles

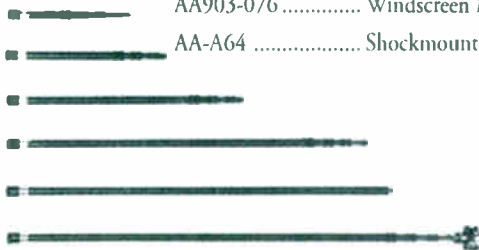
Beyer Fishpoles

MZA716 ..	4 piece telescopic fiberglass boom w/swivel, extended length 10.5 ft.	\$349.00
MZA717 ..	2 piece lightweight aluminum boom, extends from 2 ft. to 5 ft.	\$135.00
MZA718 ..	3 piece lightweight aluminum boom, extends from 3 ft. to 10.5 ft.	\$199.00



LTM Fishpoles

90A-613	20" to 63", 9.5 oz.	\$286.00
90A-614	31" to 9', 13.7 oz.	\$419.00
90A-615	4'1" to 13'8", 17.6 oz.	\$440.00
90A-616	5'2" to 16'7", 23 oz.	\$550.00
AA903-062	Windscreen	\$590.00
AA903-076	Windscreen Muff	\$209.00
AA-A64	Shockmount	\$84.00



1-352-622-7700

K-TEK Fishpoles

K-Tek professional poles are composed of a hybrid composite, high density graphite fiber selected for maximum strength and minimum weight. Fiber alignment selected for minimum bounce and weight with maximum strength. Eight layers of graphite precision ground to exact size, then burnished. Coupling designed for maximum holding power with a minimum of torque applied. Coupling designed to be dust, dirt and sand proof. "Captive Collet" design makes coupling resistant to jamming. Non-reflective processing on their uniquely milled surface makes the collar much more durable than knurling or ribbing. It offers controlled gripping power and is gentle on your hands, even when wet. The unique pole top features cable retaining slots and a replaceable stainless steel threaded mounting stud. Standard "mushroom" base, cast in poly urethane, is engineered for maximum shock protection. Accessory attachable base sections for internal wiring, internal 48V phantom and 12V "T" power supplies and extension sections are available.



K-102	2'2" to 8'9" Mic Boom	\$435.00
K-102CC	2'2" to 8'9" wired w/coil cord & XLR Bottom Connector	\$575.00
K-102CCR ..	2'2" to 8'9" wired w/coil cord & XLR Side Connector	\$605.00

Many other models & lengths available!

R-10S

Ac-cetera Goosenecks

R-12X-1

R-10S	10" solid core black Rubber-neck w/std. mic threads	\$17.95
R-16S	16" solid core black Rubber-neck w/std. mic threads	\$19.95
R-20S	20" solid core black Rubber-neck w/std. mic threads	\$20.95
R-10H ...	10" hollow core black Rubber-neck w/std. mic threads	\$18.95
R-16H	16" hollow core black Rubber-neck w/std. mic threads	\$20.95
R-12X-1	12" wired XLR ends/male to female	\$53.95
R-18X-1	18" wired XLR ends/male to female	\$53.95

AKG Goosenecks

LGN6	6" chrome gooseneck w/5/8" male & female threads (B for Black)	\$6.10
LGN13 ...	13" chrome gooseneck w/5/8" male & female threads (B for Black)	\$8.30
LGN19 ...	19" chrome gooseneck w/5/8" male & female threads (B for Black)	\$11.00
LMF1	5/8" male flange to surface mount the gooseneck (Note B for black)	\$4.10

Shure Goosenecks

G12	12" chrome flexible gooseneck	\$14.28
G12CN	12" chrome flexible gooseneck w/3-pin F XLR connector	\$25.76
G18	18" chrome flexible gooseneck	\$15.56
G18CN	18" chrome flexible gooseneck w/3-pin F XLR connector	\$27.80
A12	Std. 5/8"-27 external thread surface mounting flange	\$6.89
A13HD	Heavy duty 5/8"-27 external thread surface mounting flange	\$9.69



GN-12

**MILLION DOLLAR
SOUND FOR
UNDER \$4,000***

Introducing Omnia-3, the all-digital audio processor that offers all the clarity, punch and raw power of the original Omnia. At an amazingly affordable price.

Omnia-3 includes standard features not found anywhere else—like 48kHz sampling, three-band processing, digital audio inputs and outputs, integrated composite clipper, and a removable PC card that simplifies software changes.

Impressive features aside, it's the sound that will blow you away. No other audio processor sounds as good as Omnia. That's why leading broadcasters the world over choose Omnia to boost ratings and crush the competition.

For this much power—on the dial and in the marketplace—you'd expect to pay twice the price. But now, you don't have to.

For the name of your Omnia dealer, contact us at +1 216.241.3343 or visit www.omniaaudio.com.

With Omnia, you lead. And others follow.

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E-mail: info@omniaaudio.com

*\$3,880 (US) MSRP for Omnia-3pn model. Price may be slightly higher outside the U.S. due to duties, freight and other costs.

Digital Power

from the leader in portable recording
for professionals

PMD680

Solid State Recorder

Record digital audio as broadcast wave or MP2 files and avoid download delays. Pre-Record cache. Record many hours on a single flash memory card.



PMD650

MiniDisc Recorder (not shown)

All the advantages of MiniDisc editing with a full complement of professional I/Os. Pre-record memory cache. Noise filters.

For more than two decades Marantz Professional portable recorders have set the standard for reliable performance, rugged construction, and professional design.

If you are going digital, now you won't have to settle for anything less than Marantz Professional. Learn more at www.superscope-marantzpro.com

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Microphones • Accessories

Mic Arms



Luxo

- LM-1 41" extension for 1 oz. to 1 lbs.
(external springs) \$74.00
- KM-1 41" extension for 3 to 4.5 lbs.
(internal springs) \$90.00
- 50001 Clamp for horizontal
surface mount \$13.00
- 50003 Wall or vertical surface mount \$13.00
- 50005 Bench or counter-top
permanent mount \$13.00

Available in oyster/off white(OW) or black (BK)

OC White

- M2MDU Beige heavy duty mic arm only \$120.97
- M2MDUB Black heavy duty mic arm only \$120.94
- M2MDUR Beige heavy duty mic arm w/riser \$186.05
- M2MDURB Black heavy duty mic arm w/riser \$186.05
- M3MDURU Double jointed mic arm w/riser \$220.94
- TMA Beige triple mic arm includes 1 riser \$560.47
- EB-1 Beige extension arm \$81.40
- EB-1B Black extension arm \$81.40
- 11426 Beige wall mount \$35.72
- 11426B Black wall mount \$35.72
- 11427 Beige benchmount \$40.48
- 11427B Black benchmount \$40.48
- 14005 Beige clamp mount \$39.54
- 14005B Black clamp mount \$39.54
- 14100 Beige riser only \$81.40
- 14100B Black riser only \$81.40
- RS Heavy Replacement Springs/pr \$13.96



Ac-cetera



- Base Section lock clamp with male threaded (std) arm**
- M-1 Base Unit \$19.95
 - M-3 Horizontal and Vertical Clamp \$19.95
- Microphone holders, spring style with female threaded arm. Quick release design and mic locking system**
- M-4 Standard Spring Style Configuration \$19.95
 - M-2 Horizontal Clamp \$19.95



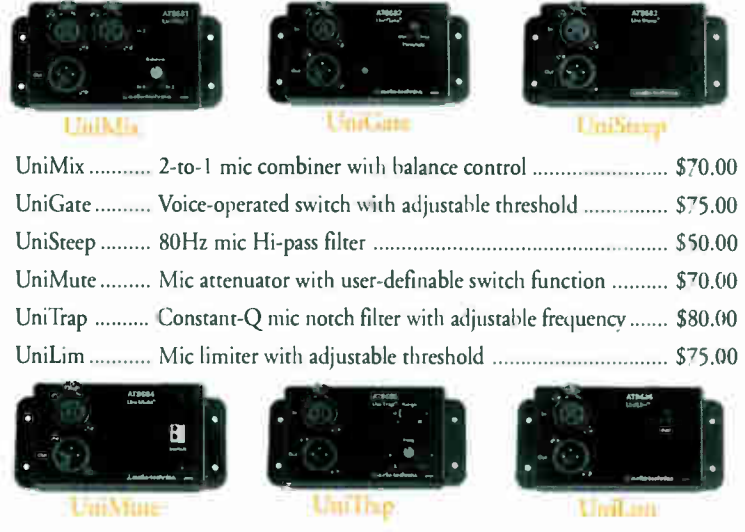
- Combo Systems, tone and folder clamps attached by various center sections**
- Flex-Eze-3 Flexible with 3" flexible center section \$38.95
 - Flex-Eze-5 Flexible with 5" flexible center section \$38.95
 - Max-Eze Straight with 1-3/4" center section (Clamp Swivel is adj.) \$38.95
 - Min-Eze Short trapeze center section \$38.95
 - Pig-E-Back Mounts Mics to Mics \$38.95

Porta Brace

- Mic Holsters ... Specify (MH-1) 8" or (MH-2) 10" lengths \$46.00
- MH-3 15" for handheld mic w/Lectrosonics H185 transmitter \$48.00
- VB-10 Optional Video Belt add on to mic holster \$26.00

Audio-Technica UniTools

- UniMix** 2-to-1 mic combiner with balance control \$70.00
- UniGate** Voice-operated switch with adjustable threshold \$75.00
- UniSteep** 80Hz mic Hi-pass filter \$50.00
- UniMute** Mic attenuator with user-definable switch function \$70.00
- UniTrap** Constant-Q mic notch filter with adjustable frequency \$80.00
- UniLim** Mic limiter with adjustable threshold \$75.00



Microphones • Accessories

Phantom Power Supplies

Audio-Technica

- CP8506 Four channel 48V DC phantom supply (AC powered) \$180.00
- AT8801 Single channel 48V DC phantom supply (AC powered) \$75.00



Crown

The Crown PH-1A is a single channel battery/phantom supply unit. It operates on two 9V batteries or with the PS-24 AC to DC adapter. Use it with the Crown PCC-160, or any mic that will operate on 18 V or higher phantom.. Input-output connectors are XLR.

- PH-1A \$99.00
- PS-24 \$30.00



Crown PH4B

The Crown PH-4B is a 48V phantom supply: four in/four out. It operates on 120Vac Connectors are female 3-pin in, and male 3-pin out.

- PH-4B \$225.00
- RMPBKIT 19" Rack mounting kit \$30.00



Rolls

Rolls PB224 Phantom Power Plus is a battery or AC powered phantom power adapter that delivers the power needed for any microphone.

- PB224 \$100.00

Rolls PB23 and PB223

Rolls PB23 and PB223 provides power that condenser mics require. The PB223 is two adapter in one box. Both units have a DC loop through jack for powering another unit.

- PB23 \$60.00
- PB223 \$75.00

Shure



The Shure PS-1A is a power supply that provides 21.5Vdc of phantom power for one or two condenser microphones. Powered by 120/240Vac.

- PS-1A \$168.30

Stewart

- PM1 ... Single 48V Module, w/PS-1 \$93.00
- PM2 ... Dual 48V Module, w/PS-1 \$138.00
- PM4 ... Quad 48V Module, w/PS-1 \$171.00
- BPS1 .. Single channel 48V Phantom Supply, Battery Powered \$119.00



Whirlwind MicPower

The Whirlwind MicPower is a portable phantom power supply for use with most electret condenser mics. It supplies +12 to 18Vdc under nominal loads at the microphone input, and the output of the unit is AC coupled. The unit operates on two 9V batteries, and an LED sensing circuit indicates sufficient battery power.

- MicPower \$119.95

Desk Stands

- Ultimate KM231/1 .. Collapsible tripod, chrome w/matt black fittings, 5/8"-27 thread \$14.00
- Atlas DS-2 Anti-vibration 4"x6" cast iron ebony base, 4" ht., wt. 2lbs. \$47.00
- Atlas DS-5 5" diameter cast iron base, 4" ht., wt. 2lbs. \$19.13
- Atlas DS-7 6" diameter cast iron ebony base, 8" to 13" ht., wt. 3lbs. \$30.68
- Atlas DS-7E 6" diameter cast iron ebony base & tube, 8" to 13" ht., wt. 3lbs. \$30.68
- Beyer ST300 ... Collapsible, made of plastic \$19.00
- Shure S39A Effective vibration isolation desk stand \$77.78



Atlas DS-7



Shure S39A

Atlas DS-5



Beyer GST500



Atlas MS12C



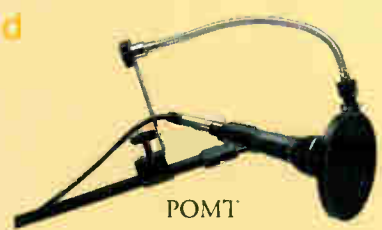
Beyer GST400

Floor Stands

- Atlas MS12C Low-profile, ebony base, 41lbs. \$49.60
- Atlas MS12CE Low-profile, ebony base & tube, 41lbs. \$49.60
- Beyer GST400 Adj. 35" - 65", fixed boom 33", black finish \$82.00
- Beyer GST500 Heavy duty adj. stand 35" - 65", adj. boom 18" - 30", black \$102.00
- Beyer GST532 Durable strength tripod stand, extends to 15' \$199.00
- Beyer ST400 Adj. 35" - 65", black finish \$59.00
- Quik Lok A114 Telescopic Desk Stand, Adj. 16.5" to 23.5" \$59.95
- Ultimate MC07B ... 1/4 turn clutch, weighted dove tail base allows carrying 6 stands in the foot print of one, 34-3/4" - 64", wt. 9 lbs. (Come in 4-pack) each \$36.00

Microphones • Accessories

Windscreens and Pop Filters



STOP-6	6" diameter pop filter	\$19.95
STOP-8	8" diameter pop filter	\$22.95
POMT	Mic stand adapter, gooseneck, & STOP-6	\$42.95
SPS-K	5" Pop filter w/clamp & gooseneck, Dual	\$42.00

WindTech™

WindTech™ manufactures the highest quality foam windscreens available in 25 brilliant colors, and a variety of sizes and shapes to fit most popular mics. Using a proprietary non-heat manufacturing process, WindTech™ windscreens are constructed from a specially developed hypo-allergenic, open-cell foam called SonicFoam™. The use of SonicFoam™ permits the free passage of sound energy waves without affecting microphone frequency response. While remaining acoustically transparent, their windscreens are engineered to reduce wind velocity which eliminates wind noise, pop noises and breath sounds. Nothing protects an expensive mic from dust, dampness and physical damage like an external windscreen, and they're washable too!



Model	Description/Sampling	Inside Diameter	Inside Depth	Price	Price/Pk
900	Large Spherical/EV50/SM58	1.625"	2.125"	\$5.30	\$15.60
300	Regular Spherical/SM58/VP88	1.375"	1.750"	\$5.15	\$15.15
600	Small Spherical/EV635/SM57	1.375"	1.750"	\$4.65	\$13.65
5700	EV635/SM57/BETA57	1.000"	1.750"	\$4.65	\$13.65
1200	Large Cylindrical/SM80/SM81	0.750"	1.625"	\$4.40	
1300	Small Cylindrical/AKGD109	0.625"	1.250"	\$4.15	
500	Podium/EVCP212/SM2/10/12	0.4375"	1.250"	\$3.95	
1100	Lapel/AT803/SM98/99	0.250"	0.750"	\$3.85	
1500	Round Lavalier/ECM44/55/66	0.375"	0.750"	\$3.95	
2300	Mini Round Lavalier/ECM77	0.187"	0.350"	\$3.60	
2100	Tear-Drop/SM93/99/PH21/22	0.250"	0.750"	\$3.85	
20/421	X-Large Cylin/RE20/MD421II	1.875"	3.250"	\$39.95	

Ultra-Screen Series for "hostile environments" with dual foam design.

US-1	1.00" x 1.750"	\$42.95
US-2	0.750" x 1.750"	\$42.95
US-3	0.625" x 1.750"	\$42.95

Shotgun Series

SG-1	.7500" x 7.250"	\$23.50
SG-2	.7500" x 11.50"	\$29.75
SG-3	.7500" x 20.00"	\$34.95

Pop Screen

SPS-1	5.0" OD 0.25" air space, 2 screens, black	\$22.00
SG-200	Fits Sony BETACAM models BVW-200, 300, 400 & D600	\$19.50

Mic Cables

Audio-Technica Mic Cables

AT8314-10	10', XLR-F-XLRM Balanced Cable	\$12.50
AT8314-20	20', XLR-F-XLRM Balanced Cable	\$15.25
AT8314-25	25', XLR-F-XLRM Balanced Cable	\$16.95
AT8314-30*	30', XLR-F-XLRM Balanced Cable	\$18.50
AT8314-50*	50', XLR-F-XLRM Balanced Cable	\$25.95
AT8314-100*	100', XLR-F-XLRM Balanced Cable	\$38.50



Canare

Canare L4E6S Star Quad Cable with braided shield is super flexible and designed for use with mics, but also excellent for all line-level signals. The four conductor Star Quad arrangement cancels electromagnetically induced noise and provides redundant connections. Available in ten colors.



Model	Conductor	Shield	O.D.	656' Reel	\$/Foot
L-4E6S	4 = 2 x 24 Awg.	Braided	.237"	\$340.90	\$0.52

Canare StarQuad offers pre-made mic cable mated with Neutrik XLR-3 connectors with black shells and gold pins.

EC005FB	5'	\$25.15
EC015FB	15'	\$30.45
EC025FB	25'	\$36.33
EC050FB	50'	\$51.25
EC100F	100'	\$73.53



Gepco Coiled Mic Cables

GMC5•25•MFNBG	XLR-F to XLRM Coiled, 30" to 15'	\$23.00
GMC9•0•25•MFNBG	XLR-F to 1/4" TS Coiled, 30" to 15'	\$24.98
GMC3•0•25•MFNBG	XLR-F to 1/8" Mini Coiled, 30" to 15'	\$21.79

Pro Co Mic Cables

Pro Co will make to order just about any cable imaginable
 PRO-M5FF ... 5' Mic Cable Female to
 Female XLR \$22.50



Hotlinks to Vendors @
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www.broadcastdealer.com

Microphones • Preamps

Aphex 1788



ART 254



ART MP Studio



ART Tube PAC



ATI M1000



ATI M100



Benchmark MP-4



Benchmark MicMan™ Jr.



CircuitWerkes RP-1



Graham Patten DMIC Front & Back



True Precision8



Presonus MP20



ART Tube Channel

ART 210



Benchmark MPS-420



Benchmark MPS-400



Microphone Preamps	Frequency Response	Noise EIN	Gain	THD Distortion	Features & Options	Price
Aphex 107	20-20k	-128dBm	64dB	.2%	Dual Ch. Tube Amp/ Phantom Power/1U	\$449.00
Aphex 1788	10-20k	-123dBu	60dB	.003%	8-Channel, two analog outputs per channel; Remote Control \$1,495; Digital Output Module \$995	\$4,995.00
ART 210 PRO MPA	20-40k	-132dbu	72dB	<.1%	Dual Ch. Tube Amp./ Phantom Power/VU meter/2U	\$679.00
ART 254 Dual MP	10-20k	-129dBu	70dB	<.1%	Dual Ch. Tube Amp./1U	\$369.00
ART Tube MP STVD10	10-20k	-129dBu	70dB	<.01%	OPL Peak Limiter & VU Metering	\$159.00
ART Tube PAC	10-20k	-129dBu	70dB	<.01%	Tube Preamp & Optical Compressor	\$295.00
ART Tube Channel	10-20k	-129dBu	81dB	<.01%		\$525.00
ATI M1000-1	50-20k	-124dBm	74dB	.2%	48V Phantom Power/ Opt 1U-RM Single \$25 or Dual \$28	\$449.00
ATI M100	20-20k	-124dBm	74dB	.03%	48V Phantom Power/ Opt 1U-RM #20273-502 \$25	\$399.00
Benchmark MP-3	>200k	-130dB	65dB	.004%	XLRF-Mounted circuit card w/w.o. ctrl. PS-1 Power Supply \$35	\$95.00
Benchmark MP-4	>200k	-130dB	75dB	.0009%	Circuit Card	\$190.00
Benchmark MPS-400	>200k	-130dB	75dB	.0009%	4-Ch. New Power Supply/1U	\$1,095.00
Benchmark MPS-420	>200k	-130dB	75dB	.0009%	4-Ch./2 Summed Outputs/1U	\$1,295.00
Benchmark Mic-Man Jr.	160k	-130dB	76dB	.001%	Two-9V Batteries or Phantom Pwr.	\$425.00
CircuitWerkes RP-1	10-31k	-129dB	70dB	.0013%	1kHz Osc. (H/P Amp w/vol. control)/PTC/PTT Button 81dB Dyn. Range	\$299.00
dbx 386	<10-150k	-128dB	60.1dB	.04%	48V Phantom Power. Digital Output, 1U	\$599.95
dbx 576	<10-200k	-126dB	-15 to +15	.04%	3 Band EQ, 48V Phantom Power, Peak Plus Limiting, 2U	\$999.95
dbx 586	<10->200k	-126dBu	60dB	.04%	2-Ch. Tube Pre/Lim/EQ/2U	\$999.95
Event EMP-1	20-20k	-129dBv	60dB	N/A	Phantom Pwr./Select. Lo Cut Filter/dRev.	\$299.00
Graham-Patten DMIC-20	20-20k	-130dbu	60dB	N/A	20-Bit 30-50KHz St. Mic-Pre AES 3-1992 & AES3-1D	\$699.00
Presonus MP20	10-60k	-128dB	40dB	.00%	Dual Ch./1U/1DSS Tube Emulation	\$649.95
Presonus M80	10-60k	-128dB	60dB	.0024%	8 Ch./2U/1DSS Tube Emulation/ Can be 8x2 Mixer	\$1,999.95
True Precision8	5-500k	-132dB	64dB	.0008%	8 Ch/2 Ch.	\$2,695.00

dbx 586



Presonus M80



Microphones • Preamps



Microphone Preamps	Frequency Response	Noise EIN	Gain	THD Distortion	Features & Options	Price
Radio Design Labs RU-MP2	25-20k	<-125dB	35-65dB	<.005%	Opt 1U RU-RA3 \$30, 2-ch., XLR Front I/O, Barrier Block on Rear	\$317.00
Radio Design Labs STM-1	50-30k	<-125dB	50db fixed	.05%	Hi-Z & Lo-Z Out/Opt. PS-24A \$18	\$102.00
Radio Design Labs STM-2	50-25k	<-130dB	65dB	.05%	Hi-Z & Lo-Z Out/Opt. PS-24A \$18	\$140.00
Radio Design Labs STM-2X	50-25k	<-130dB	65dB	.05%	Mic & Line Out / PTT Switching & Opt. Power Supply PS-24A \$18	\$158.00
Radio Design Labs STM-3	50-25k	<-130dB	75dB	.05%	Dual Lo-Z Out & Opt. PS-24A \$18	\$161.00
Rane DMS-22	20-20k	-130dB	60dB	.009%	Dual Ch./Phantom Pwr./EQ/ Select. Hi Pass Filters	\$549.00
Rane MS-1	20-20k	<-131dB	60dB	<.007%	1/3RW, 48V Phantom Pwr, XLR	\$199.00
ROLLS RP-220	20-40k	-130dB	70dB	.1%	Dual Ch. Tube Amp	\$500.00
SBS Mic-IT	20-20k ±.1dB	-130dB	75dB	.005%	Dual Channel, Switchable 48V & Hi pass filter, Multiple Output Modes including M+S, Int. PSU, Opt. RM \$35, 5-Yr. Warranty	\$254.00
SBS MicLim-IT	20-20k	-130dB	75dB	<.01% below limit point	Single Channel Mic Amp/limiter w/switchable Phantom Power, Int. PSU, Opt. RM \$35, 5-Yr. Warranty	\$269.00
Shure FP-11	20-20k	-129dBv	84dB	<.5%	9V Battery Operation/ Includes Limiter	\$377.40
Sound Devices MP-1	20-20k	-126dBu	66dB	.05%	2-AA Battery Pwr./12V & 48V Phantom Pwr./XFMR Bal./Limiter/ Hi Pass @ 80Hz & 160Hz	\$420.00
Symetrix 302	20-20k	-128dBu	60dB	.007%	Dual Ch. / Opt. RM-3 Tray \$39	\$299.00
Tascam MA-8	20-20k	-128dBm	55dB	<.013%	8 Ch./Phantom Pwr./1U	\$450.00
Ward Beck POD4	20-20k	-124db	70db	<0.1%	Dual channel w/phantom power. Peak indicator, trim gain control.	\$395.00
Whirlwind MD-ONE	50-20k	N/A	60dB	N/A	Pwd by 2- 9V Batteries H/P Amp with Level Ctrl.	\$399.95



Microphones • Processing

AIRcorp Pro Announcer 500

The AIRcorp Pro Announcer 500 has front panel selection of input level from +4 to -50dB, three section variable boost and cut equalization, phase rotators, compressor/expander combination, de-esser and simultaneous mic and line level outputs. A front panel headphone jack permits set up without being on the air and a DB 25 connector allows remote control of most functions including "popless" insert point for effects.



500PH Radio/Studio version * \$799.00
 500TV Television version * \$889.00
**They are supplied with handles (tabs) on the rack ears unless specified without handles at the time of order.*

ART 215 Pro Channel



ART 215 Pro Channel is a tube compressor/leveling amp and tube EQ. The Pro Channel allows you to select ART's optical/tube compressor or the Variable Mu circuit, a design made popular by the sound of the old broadcast limiter. Some of the features include: 4 band parametric EQ w/selectable Q for two sweepable mid-bands • balanced XLR and unbalanced 1/4" I/Os • insert points between preamp and compressor and compressor and EQ • three hand-selected vacuum tubes • professional signal processing for use with any analog or digital recording format • processing channel for any line or instrument level signal • selectable level metering with large VU meter and tube character and gain reduction LED arrays • five year warranty. 2U and 12lbs.

215 Pro Tube Preamplifier, compressor & EQ \$799.00

Microphones • Processing

ART 259 Tube Channel



ART 259 Tube Channel provides a tube preamp, an optical compressor and tube parametric EQ for microphone processing. The tube-based preamp section provides 48V phantom power and up to +60dB of gain. The tube EQ section provides 4 bands of control, low shelf, low-mid sweep, high-mid sweep and high shelf, all with 12dB of boost/cut. The compressor/limiter provides selectable release, adjustable threshold and output level controls. Gain reduction is displayed via a four segment LED array. Features: XLR and 1/4" I/O • two insert points (post preamp and post processor) • internal power supply • and a 3 Year Warranty.

259 Tube Preamplifier, compressor & EQ \$525.00

dbx 286A



The dbx 286A is a mic processor with preamp, compressor, de-esser, enhancer and expander/gate combined in an affordable, compact unit. The preamp accepts mic or line level inputs, offers phantom power, an 80Hz, 18dB/Oct high pass filter plus an input level meter. An additional 1/4" TRS phone jack can accept balanced/unbalanced line signals and an insert jack between the 286A's mic preamp and signal processing sections can be used to "loop out" to external processors.

dbx 286A \$249.95

dbx 1086



The dbx 1086 mic preprocessor features a premium high headroom mic pre with a custom VU meter, and a pre amp output on the rear panel. The processor section has switchable Hard-Knee/OverEasy® compressor, de-esser, and an expander/gate. The processor section may be accessed separately via a connector on the rear panel or may be fed by the output of the pre amp itself. The optional TYPE IV™ Conversion system output rounds out the comprehensive feature set of this unique processor.

1086 Mic/Pre Processor \$749.95

Omnia ToolVox



The Cutting Edge Omnia ToolVox is a full-featured, all-digital microphone processor. The ToolVox includes phase rotation, AGC, compression, noise gating, adjustable shelf and bandpass filters, parametric EQ, de-esser, and Waves® TrueVerb. The mic preamp includes 24-bit A/D converter and phantom power. It is remote controllable via network and has digital and analog outputs. 1U & 11lbs.

ToolVox \$1,780.00

Rane VP 12



The Rane VP 12 is a mic or line level voice processor incorporating a studio-grade microphone stage, low and hi cut filters, de-esser, gate/compressor, and two channels of parametric equalization. The microphone 3-pin XLR input features switchable 48V phantom power and an input gain control. A separate balanced line level input arrives from either screw terminals or a 1/4" TRS jack. A front panel switch selects whether the mic, line, or the sum of both inputs will be processed by the VP 12.

VP-12 \$599.00

Symetrix 528E



The Symetrix 528E is a voice processor with an on-board preamp, compressor/limiter, downward expander, parametric EQ/notch filter, de-esser, 48V phantom power and individual bypass switches for each section. Includes clip LED's, output level and gain reduction metering. The 528E allows you more control over vital EQ parameters and a greater range of compression adjustments than other analog voice processors. The 528E offers 3 bands of variable frequency EQ, with variable bandwidth on each. The compressor section provides adjustable ratio control, and a downward expander that reduces studio equipment noises. The new phase rotator and selectable output level round out the features found on the 528E.

528E \$749.00

Symetrix 628



The Symetrix 628 has all the 528E features with the following additions: digital output (32kHz, 44.1kHz & 48kHz), 117 user presets and 11 factory presets, front panel lock-out and an optional remote control to access 11 presets.

628 \$1,249.00

Valley 401B



The Valley 401B has a transformerless mic preamplifier, three band voice EQ, post-eq patch point, compressor with interactive expander, and de-esser with "normal" and "heavy" settings. Includes LED gain reduction meter, switch selectable input/output VU metering and an output gain control. The balanced output level is switch selectable from +4dBu to -50dBv for level matching to mic or line input circuits.

401B \$680.00



Broadcasters General Store

1-352-622-7700



Just a word on Wireless...

Due to the wide variety of wireless systems BGS sells, a little info on wireless systems in general is offered here to better help our customers determine the best system(s) for their project. A special thanks goes out to Tim Vear of Shure Bros. and his publication, "Selection and Operation of Wireless Microphone Systems" for this valuable information and also Bruce C. Jones of Lectrosonics and his publication, "Wireless Microphone Systems...Operational Basics and Applications". U.S. wireless microphone frequencies reside in the upper portion of the VHF band between 162-216MHz and in the low-band UHF (450-806MHz) as well as the high-band UHF (900-952MHz). The low-band VHF (49-108MHz) is not used for serious wireless mic users since it is congested with primary users like TV channels 2-6 and the FM band as well as secondary users like cordless phones, walkie-talkies and radio controlled toys at the 49MHz region and assistive listening systems at 72MHz. The high-band VHF range is divided into two bands: 169-172MHz with 8 dedicated channels for the general public called "travelling frequencies" and 174-216MHz whose primary users are TV channels 7-13. Both bands allow from 12kHz to 15kHz FM deviation and power is limited to only 50mw. 1/4 wave antennas range from half a meter to less than 14 inches. Propagation loss is minimal due to the longer wavelengths involved. Line of sight is advised but propaga-

tion through porous walls can be achieved. Operating distance is somewhere between 100' and 1000' depending on conditions. UHF systems range from 2x to 10x the cost of a VHF system due to economies of scale, intricacies of design and manufacturing costs (higher end systems utilize multi-pair helical resonators instead of coils on the front end as well as multi-pole crystal IF filters instead of ceramic filters). The low-band UHF is really two overlapping bands: 450-536MHz (primary users are land mobile radio and pagers) and 470-806MHz (primary users are TV channels 14-69). Due to the broad frequency spectrum multiple systems can be operated in proximity to each other without interference. Propagation is reduced due to the shorter wavelengths involved and because of these short wavelengths, multipath artifacts increase because they reflect off of smaller objects more so than with VHF wavelengths. Diversity systems are almost always a must with UHF! Greater transmitter power is allowed (up to 250mw) in the UHF band but is rarely offered due to decreased battery life. Generally 10mw to 100mw is offered. Antennas are now down to 4-7 inches in the low-band UHF. 50mw systems typically range up to 1000', line of sight only. System selection was easy due to the large spectrum available, but with the advent of HDTV and the ever-changing spectrum allotments the spectrum is shrinking.

Finally, it might be necessary to get a multi-channel system in the event there are unforeseen conflicts with other systems in the area.. With all this in mind, BGS offers a sample selection of wireless mic systems below, but this is by no means all the systems offered through our vendors. For more information or assistance, please call BGS!

The following 8 steps should be considered before ordering your wireless system:

- 1) Define the application
- 2) Select the mic for the transmitter (handheld xmtrs offer several polar patterns as well as dynamic & condenser transducers; bodypacks offer different lavaliers as well as headworn mics)
- 3) Select the xmtr type (handheld, bodypack or plug-on types for your favorite wired mic)
- 4) Select the type of receiver (diversity vs. non-diversity as well as the type of output from the receiver)
- 5) Determine total number of systems that will be used simultaneously
- 6) Specify geographic region where it will be used
- 7) State any other wireless frequencies already in use
- 8) Specify accessory equipment as needed (remote antennas, antenna splitters/distributors, accessory cables, etc.)



AKG	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
WMS 80	H-UHF	Yes	HT 80 Handheld mic, allows selection of five different microphone heads. AKG D880, D3700, D3800, C4900 or C535 10mW PT 80 Beltpack transmitter for lavalier or headmic. 10mW	SR 80 frequency agile, 15 channel receiver, w/diversity	\$662.00 - \$904.00
WMS 81	H-UHF	Yes	HT 81 Handheld mic, allows selection of five different microphone heads. AKG D880, D3700, D3800, C4900 or C535 10mW PT 81 Beltpack transmitter for lavalier or headmic. 10mW	SR 81 frequency agile, 15 channel receiver, w/diversity	\$805.00 - \$1,936.00
WMS300	H-UHF	Yes	HT 300 Handheld mic, allows selection of three different microphone heads. AKG D3800, C4900 or C535 10mW PT 300 Bodypack transmitter, up to 16 frequencies selectable, up to 8 frequencies operational at the same time. Compatible for dynamic and condenser mics. 50mW	SR 300 frequency agile, 16 channel receiver, w/true diversity	\$1,316.00 - \$2,326.00
WMS 60	VHF	Yes	HT 60 Handheld mic, allows selection of five different microphone heads. AKG D880, D3700, D3800, C4900 or C535 10mW PT 60 Beltpack transmitter for lavalier or headmic. 10mW	SR 60 frequency agile, 15 channel receiver, w/diversity	\$555.00 - \$854.00
WMS 61	VHF	Yes	HT 61 Handheld mic, allows selection of five different microphone heads. AKG D880, D3700, D3800, C4900 or C535 10mW PT 61 Beltpack transmitter for lavalier or headmic. 10mW	SR 61 frequency agile, 15 channel receiver, w/diversity	\$683.000 - \$1,760.00



Azden	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
411	H-UHF	Yes	411HT handheld mic, selectable 10mW or 50mW operation 41XT plug-on mic transmitter, selectable 10mW or 50mW operation 41BT beltpack transmitter for lav or headmic, selectable 15mW or 50mW operation	411UDR frequency agile, 63 channel, true diversity receiver 411DRH half-rack version or 411UDR 422UDR dual receivers, frequency agile, 63 channel, true diversity	\$475.00
400	H-UHF	Yes	411HT handheld mic, selectable 10mW or 50mW operation 41XT plug-on mic transmitter, selectable 10mW or 50mW operation 41LT beltpack transmitter for lav or headmic, selectable 30mW or 50mW operation	400UDR portable, frequency agile, 63 channel, true diversity receiver for ENG camera mount.	\$480.00
311	VHF	Yes	311HT handheld mic, selectable 10mW or 50mW operation 31XT plug-on mic transmitter, selectable 10mW or 50mW operation 31LT beltpack transmitter for lav or headmic, selectable 30mW or 50mW operation	311DR fixed frequency receiver w/diversity	\$325.00 - \$400.00
211	VHF	No		221R w/2 complete receivers in one case	\$250.00 - \$340.00

Microphones • Wireless

audio-technica	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
7000	H-UHF	Yes	ATW-T75 handheld unidirectional dynamic mic, 50mW ATW-T75 beltpack for lavalier or headmic, 50mW	ATW-R73 frequency agile, 1/100th PLL-synthesized channels selectable via switches on receiver and transmitter w/true diversity.	\$975.00- \$995.00
1900	H-UHF	Yes	ATW-T52 handheld dynamic mic, 50mW ATW-T51 beltpack for lavalier or headmic, 50mW	ATW-R19 single channel receiver w/true diversity	\$650.00- \$750.00
U100	H-UHF	Yes	ATW-%102 plug-on mic transmitter, 50mW ATW-T101 beltpack for lavalier or headmic, 50mW	ATW-R100 1/100th PLL-synthesized channels selectable via switches on receiver and transmitter. True diversity ENG receiver for camera mount	\$1,049.00- \$1,099.00
PRO400	H-UHF	Yes	ATW-T52 handheld dynamic mic, 50mW ATW-T51 beltpack for lavalier or headmic, 50mW	PRO-R4 single channel receiver w/true diversity	\$550.00- \$640.00
1200	VHF	Yes	ATW-T36HE handheld dynamic mic, 50mW ATW-T37C handheld condenser mic, 50mW ATW-T35 beltpack transmitter for lav or headmic, 50mW	ATW-R12 single channel receiver w/true diversity	\$650.00- \$798.00
PRO200	VHF	Yes	ATW-T28 handheld mic, 50mW ATW-T27 beltpack transmitter for lav or headmic, 50mW	PRO-R2 single channel receiver w/true diversity	\$499.00- \$615.00
PRO88W	VHF	Yes	AT829mW miniature cardioid condenser mic terminated for use with PRO88W transmitter MT830mW subminiature omnidirectional condenser mic only, terminated for use with PRO 88W transmitter PRO8HemW headworn hypercardioid dynamic mic, terminated for use with PRO 88W transmitter	PRO 88W single channel, battery-powered, ENG receiver for camera mount	\$199.00- \$235.00



Beyer SEM 600

Beyerdynamics	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
U400	H-UHF	Yes	SDM400 handheld mic transmitter with dynamic TG-X 60 element, 30mW SEM 400 handheld mic transmitter with condenser element, 30mW TSP 400 bodypack for lavalier or headmic, 30mW TSG 400 bodypack with 1/4" jack socket to connect active and passive instruments and guitars, 30mW	NE 400 frequency agile, 32 channel receiver w/diversity system, removable antennae	\$1,899.00- \$1,999.00
U600	H-UHF	Yes	SEM 600 handheld mic transmitter with condenser element, 30mW TS 600 baldypack for lavalier or headmic, 50mW	NE 600 frequency agile, 64 channel receiver w/diversity system, removable antennae TE 600 frequency agile, 64 channel ENG receiver w/diversity system for camera mount	\$4,999.00
S300	VHF	Yes	TSP 300 bodypack for lavalier or headmic, 20mW TSG 300 bodypack with 1/4" jack socket to connect active and passive instruments and guitars, 20mW SDM 300 handheld mic transmitter w/dynamic TG-X60 element, 20mW SEM 300 handheld mic transmitter w/condenser element, 20mW	NE 300F frequency agile, 32 channel receiver w/diversity system, fixed antennae NE 300R frequency agile, 32 channel receiver w/diversity system, removable antennae	\$1,439.00- \$1,449.00

Beyer TS 600

Electro-Voice R100



audio-technica 1900



Electro-Voice R200



Electro-Voice	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
R200	H-UHF	Yes	XTU- plug on transmitter for XLR connected, non-phantom powered mics, 50mW BPU- bodypack transmitter w/TA4F connector to allow choice of mic, 50mW HTU- handheld transmitter w/BK-1 condenser mic, 50mW BGU- bodypack transmitter w/hardwired 1/4" plug, on/off and mute switch. (Use with GRU guitar receiver), 50mW	GRU- single channel, guitar receiver w/attached tuned antennas, 1/4" output jack and AC adapter RCU- single channel, diversity receiver w/attached tuned antennas, XLR & 1/4" output jacks and AC adapter.	\$576.00-- \$768.00
R100	VHF	Yes	BLV- bodypack transmitter w/hardwired OLM10 omnidirectional lav mic, 50mW BPV- bodypack transmitter w/TA4F connector to allow choice of mic, 50mW HTVC- handheld transmitter w/MC500 dynamic mic, 50mW BGV- bodypack transmitter w/hardwired 1/4" plug, on/off and mute switch. (Use with GRV guitar receiver), 50mW	RCV- single channel, diversity receiver w/attached tuned antennas, 1/4" output jack and AC adapter GRV- single channel, guitar receiver w/attached tuned antennas, 1/4" output jack and AC adapter.	\$329.00 \$504.00

Microphones • Wireless

Lectrosonics	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
200	U-UHF	Yes	200 Series Synthesized Wideband UHF UH200 plug on transmitter, 100mW HM200B beltback transmitter, 100mW UM250B high power beltback transmitter, 250mW UT200 synthesized UHF handheld transmitter	UDR200B studio diversity receiver - freq. synthesized UCR205D compact diversity receiver - freq. synthesized UCR210D compact diversity receiver - battery or external DC power	\$3,190.00- \$5,290.00
195	U-UHF	Yes	195 Series Crystal Controlled UHF UH195 plug on transmitter - fixed freq., 70mW UM 195B beltback transmitter - fixed freq., 70mW UM195VM VanMic transmitter - fixed freq., 70mW	UCR195 compact receiver - single antenna UCR195D compact receiver - diversity system	\$2,470.00- \$3,125.00
190	U-UHF	Yes	190 Series Crystal Controlled Narrowband UHF UH190 plug on transmitter - fixed freq., 70mW UH190B beltback transmitter - fixed freq., 70mW	UCR190 UHF crystal controlled receiver - single antenna	\$1,995.00- \$2,035.00
187	VHF	No	187 Series Crystal Controlled Narrowband VHF H187 VHF plug on transmitter, 50mW M187 VHF beltback transmitter, 50mW	CR187 high performance VHF compact receiver, single antenna	\$1,360.00- \$2,070.00
175	VHF	No	175 Series Crystal Controlled Wideband VHF M175 VHF beltback transmitter, 50mW	CR175 VHF compact receiver, single antenna	\$830.00- \$1,255.00



Lectrosonics
CR187FV



Lectrosonics
DR175FV



Nady UHF 760



Nady XR 71/72



◀ Nady UHF 760



Nady 441/442



◀ Samson Synth 32



Nady 950GS

Nady	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
XR-81/82	UHF	Yes	XR-81/82 PRO UHF Series HT-5 two freq. handheld microphone SX-5 two freq. bodypack for lavalier or headmic GT-5 two freq. bodypack for instrument pickup	XR-81 two freq. w/single receiver and DigiTRU diversity XR-82 two freq. w/dual receiver and DigiTRU diversity	\$699.95- \$1,599.95
950GS	UHF	Yes	950GS UHF Frequency Agile - 160 Channel System HT-60 handheld microphone GT-60 bodypack for instrument pickup ENG-12 "snap-on" for XLR microphones	950GS frequency agile receiver w/true diversity	\$2,049.95- \$2,229.95
760	UHF	Yes	760 UHF Frequency Agile - 160 Channel System HT-60 handheld microphone LT-60 bodypack for lavalier or headmic GT-60 bodypack for instrument pickup ENG-12 "snap-on" for XLR microphones	760 frequency agile receiver and DigiTRU diversity	\$995.99- \$1,169.95
XS-61/62	VHF	Yes	XR-61/62 PRO VHF Series - Diversity HT-3 handheld vocal mic, 50mW SX-3 bodypack transmitter for lavalier or headmic GT-3 instrument transmitter	XR-61 fixed single channel w/single receiver XR-62 fixed single channel w/dual receiver	\$499.95- \$1,279.95
XR-71/72	VHF	Yes	XR-71/72 PRO VHF Series - Diversity HT-3 handheld vocal mic, 50mW SX-3 bodypack transmitter for lavalier or headmic GT-3 instrument transmitter	XR-71 fixed single channel w/single receiver XR-72 fixed single channel w/dual receiver	\$649.95- \$1,249.95
331/332	VHF	Yes	331/332 Silver Series HT-3 handheld microphone transmitter, 50mW LT-3 lavalier bodypack transmitter, 50mW GT-3 instrument bodypack transmitter, 50mW "The Link" "snap-on" microphone transmitter, 50mW	331 fixed channel w/singel antenna receiver 332 fixed channel w/DigiTRU diversity receiver	\$199.95- \$479.95
441/442	VHF	Yes	441/442 Gold Series HT-4 four channel handheld microphone transmitter LT-4 four channel lavalier transmitter GT-4 four channel instrument transmitter	441 four channel w/single antenna receiver 442 four channel w/DigiTRU diversity	\$319.95- \$469.95



Samson VHFTD

Samson	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
Series One	H-UHF	Yes	Series One - Fixed Frequency UHF Wireless System UT1L beltback transmitter for lavalier or headmic UT1G beltback transmitter for instrument pickup UH1 handheld microphone transmitter	UR1 fixed freq. receiver w/true diversity	\$419.99- \$999.99
Synth 32	H-UHF	Yes	Synth 32 - Frequency Agile - 32 Channels T32 beltback transmitter for lavalier, headmic, or instrument pickup H32 handheld microphone transmitter	R32 thirty-two channel, freq. agile receiver, w/true diversity	\$549.99- \$1,189.99
Micro 32	H-UHF	Yes	Micro 32 for camera mounted ENG/Field Applications T32 beltback transmitter for lavalier, headmic, or instrument pickup H32 handheld microphone transmitter	UM1 thirty-two channel, freq. agile diversity receiver	\$699.99- \$1,189.99
VHF TD	VHF	Yes	VHF-TD Series with True Diversity Reception VT3L beltback transmitter for lavalier mic or headmic VT3 beltback transmitter for instrument pickup VH3 handheld microphone	VR3TO fixed freq. receiver w/true diversity	\$399.99- \$469.99
Concert IV	VHF	Yes	Concert IV - VHF Series CT4L beltback transmitter for lavalier mic or headmic HT4 handheld microphone CT4G beltback transmitter for instrument pickup	Concert IV CR4 fixed freq. receiver w/true diversity	\$629.99- \$999.99



Samson Concert 4

Microphones • Wireless

Sennheiser	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
EW-100	H-UHF	Yes	Evolution 100 Series SKM-100 handheld microphone w/4 freq. SK-100 bodypack w/4 freq. SKP-100 plug on w/4 freq.	EM-100 rackmount receiver w/4 switchable freq. and true diversity operation. EK-100 bodypack receiver w/4 switchable freq. and true diversity operation	\$767.00- \$835.00
			Evolution 300 Series SKM-300 handheld microphone w/8 freq. SK-300 bodypack w/8 freq.	EM-300 rackmount receiver w/8 switchable freq. and true diversity operation.	\$1,235.00- \$1,300.00
			Evolution 500 Series SKM-500 handheld microphone w/16 freq. SK-500 bodypack w/16 freq. SKP-500 plug on w/16 freq.	EM-500 rackmount receiver w/16 switchable freq. and true diversity operation. EK-500 bodypack receiver w/16 switchable freq. and true diversity operation	\$1,635.00- \$1,776.00

Sennheiser SKM 3072



Sennheiser EM1046GR



Sennheiser SK50 UHF



Shure	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
UC Series	H-UHF	Yes	UC1 bodypack transmitter for lavalier, instrument pickup, or headmic, 50mW UC2 handheld microphone, allows for interchangeable microphone heads, 50mW	UC4 receiver, 100 channel frequency agile w/diversity system	\$1,309.00- \$1,958.00
			UHF Series	U1 bodypack transmitter for lavalier, instrument pickup, or headmic, 50mW U2 handheld microphone, allows for interchangeable microphone heads, 50mW	U4S single receiver, 191 channel freq. agile w/diversity system U4D dual receiver, 191 channel freq. agile w/diversity system	$3,878.00- $5,356.00
UT Series	H-UHF	Yes	UT1 bodypack transmitter for lavalier, instrument pickup, or headmic, 15mW UT2 handheld microphone, allows for interchangeable microphone heads, 15mW	UT4 single receiver w/diversity	\$625.00- \$787.00
LX Series	VHF	Yes	LX1 bodypack transmitter for lavalier, instrument pickup, or headmic, 50mW LX2 handheld microphone, 50mW	LX-3 receiver, w/single antenna LX4 receiver w/diversity system	\$518.00- \$1,002.00
SC Series	VHF	Yes	SC1 bodypack transmitter for lavalier, instrument pickup, or headmic, 8 selectable freq., 50mW SC2 handheld microphone, 8 selectable freq., 50mW	SC4 receiver, freq. agile w/diversity system	\$864.00- \$1,330.00
T Series	VHF	Yes	T1, T1G bodypack transmitter, 50mW T2 handheld microphone, 50mW	T3 receiver w/single antenna T4N receiver w/micro-processor controlled predictive diversity	\$360.00- \$690.00

Sony	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
800 Series	H-UHF	Yes	WRT-800A Synthesized handheld microphone, 5mW WRT-810A Synthesized handheld microphone, selectable 2.5mW or 10mW operation. WRT-830A Synthesized handheld microphone, selectable 2.5mW or 10mW operation. WRT-85A Synthesized bodypack transmitter, 10mW WRT-820A Synthesized bodypack transmitter, 10mW	WRR-800A frequency synthesized 94 channels w/diversity WRR-801A frequency synthesized 94 channels w/diversity, rackmount, modular design, supplied with one WRU-801A receiver, room for 6 receivers total WRR-820A frequency synthesized 94 channels w/diversity, rackmount, single tuner version WRR-840A frequency synthesized 94 channels w/diversity, rackmount, dual tuner version	\$1,390.00- \$4,800.00

Sony WRR840a



Telex	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
UR700	H-UHF	Yes	HT-700 handheld microphone, 10mW WT-700 bodypack transmitter for lavalier, headmic, or instrument pickup, 10mW	UR-700 fixed frequency receiver w/diversity	\$635.00- \$695.00
USR100	H-UHF	Yes	LT-100 bodypack transmitter for lavalier, headmic, or instrument pickup, 1.0mW or 10mW operation SH-100 handheld microphone, 1.0mW or 10mW	USR-100 one-hundred channel, frequency agile, portable diversity receiver for camera mount	\$1,025.00- \$1,590.00
Pro Star	H-UHF	Yes	UT-12 universal plug on mic transmitter, 10 to 15mW UH-12 handheld microphone, 15mW UB-12 bodypack transmitter w/TA4M connector, 15mW UG-12 bodypack guitar transmitter with plug & cable, 15mW	UR-12 fixed frequency receiver w/diversity	\$350.00- \$630.00
ENG 100		Yes	LT-100 bodypack transmitter for lavalier, headmic, or instrument pickup, 1.0mW or 10mW operation SH-100 handheld microphone, 1.0mW or 10mW operation	ENG-100 one-hundred channel, freq. agile, portable diversity receiver for camera mount	\$525.00- \$995.00
FMS-70	VHF	Yes	HT-200 handheld microphone, 45mW WT-55 bodypack transmitter for lavalier or headmic, 55mW WT-60 Micro pack transmitter for lavalier or headmic, 55mW	FMR-70 single frequency w/diversity system	\$635.00- \$740.00
ENG 1	VHF	Yes	-----	ENG-1 portable receiver, single antenna unit for camera mount	\$300.00- \$385.00

Sony WRR820a

Vega	Band	Diversity	Transmitter Model & Features	Receiver Model & Features	Price Range
R672	U-UHF	Yes	T-772 bodypack for lavalier or headmic, 50mW T-690 series handheld microphone, 50mW	R-672 frequency agile, 16 channel, true diversity receiver	\$3,597.00
R622A	U-UHF	Yes	T-680 handheld mic, selectable 50 or 150mW T-677 bodypack for lavalier or headmic, 150mW	R662A crystal controlled, 4 channel, true diversity receiver, comes loaded w/one frequency, additional freq. optional	\$3,525.00
U2020	U-UHF	Yes	Hi-2020 handheld microphone, 50mW BT-2020 bodypack for lavalier or headmic, 150mW	R-2020 frequency agile, 100 channel, true diversity receiver	\$913.00- \$1,588.00
AX-20		Yes	T-25 bodypack for lavalier or headmic, 45-50mW T-24 handheld mic w/EV N/D757B element, 45-50mW T-28 handheld mic w/EV BK1 element, 45-50mW T-29 handheld mic w/Vega K4 element, 45-50mW	R-22 single frequency receiver w/diversity system	\$1,422.00- \$1,643.00
VX-20		Yes	T-25 bodypack for lavalier or headmic, 45-50mW T-28 handheld mic w/EV BK1 element, 45-50mW T-29 handheld mic w/Vega K4 element, 45-50mW	R-27 camera mountable, single antenna receiver	\$1,472.00- \$1,692.00



Mixers/Consoles • Microphone

Audio-Technica AT-MX341 4-Channel SmartMixer

Audio-Technica AT-MX341a is a four-channel SmartMixer[®] that offers automatic input mixing with unique digital microprocessor control. Choose one channel at a



time or any mix of moderator override, (a switchable manual mode overrides automatic functions). It has single threshold settings for all channels with individual gain controls for each channel. Any number of SmartMixers can be daisy-chained to control large conferences. The output and inputs are individually switchable between mic and line-level, and the last mic on stays on so that ambient sound is never muted. It comes with rack mount adapter, and two can be mounted side-by-side in a single RU with an accessory joining plate.

- AT-MX341a \$699.00
- AT-MX351 Four automatic mic/line/inputs, plus aux in \$799.00
- AT8628 Double rack mount joining plate \$30.00

Eddor Q4100 & Q8100 Microphone Mixers



The Eddor Q4100 & Q8100 microphone mixers have 4 or 8 balanced XLR female microphone inputs with phantom power. There are also 2 RCA auxil-

iary inputs with a single volume control bringing the units to 6 or 10 channel mixers. Each microphone input has individual volume control. Outputs are balanced XLR male connectors with 600Ω line level and the auxiliary level output is unbalanced RCA type connectors with maximum output of 8 VRMS into 10,000 Ω's.

- Q4100 4 mic, 2 aux mixer \$245.95
- Q4200 4 mic, 2 aux mixer w/tone controls \$251.00
- Q4000RM Rackmount kit for Q4100 \$19.00
- Q8100 8 mic, 2 aux mixer \$399.00
- Q8200 8 mic, 2 aux mixer w/tone controls \$401.00

Intelix VC Series Microphone Mixers

All Intelix VC Series microphone mixers combine superior audio quality with simple DC control, computer control



and on-board automation. All use VCAs to ramp the audio inputs and outputs independently. The Basic features include: Low cut input filter • Duck - manual (mute) • Remote control level & mute • and Stereo line level input (one channel). The Enhanced features include the Basic features plus: Input clip LED • Signal present input LED • Bargraph output meter • Aphex™ Aural Exciter • Limiter • Duck - Automatic (mute) • and is AMIX compatible.

- 4001/VC 4 input by 1 output - Basic Features \$569.00
- 4001/VCX 4 input by 1 output - Enhanced Features \$789.00
- 8001/VC 8 input by 1 output - Basic Features \$889.00
- 8001/VCX 8 input by 1 output - Enhanced Features \$1,049.00

Please call for information and pricing on other connection devices.

Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com

Intelix MC Series



The Intelix MC Series, mic/line mixers feature: compressor/limiter • low cut filter • headphone out • phantom power • dual bus switching per channel • variable LED metering • and AC/DC power.



- 8002MCB 8x2 mic/line mixer \$649.00
- 8002MCB-FP 8x2 mic/line mixer w/all controls on front panel \$799.00

Intelix AMIX Series

Automatic Microphone & Line Mixers

The Intelix AMIX Series, Automatic microphone & line mixers feature: remote DC, ReO, or RS232 control • N.O.M. mixing 3 gating modes, low cut filter, phantom power • and N.O.M. mode selection on a channel by channel basis.



- AMIX4 4x1 automatic mic/line mixer \$1,109.00
- AMIX8 8x1 automatic mic/line mixer \$1,478.00

Lectrosonics LECNET™ Automatic Mixer

The Lectrosonics AM8 Automatic Mixer is microprocessor controlled and has adaptive gain



proportional algorithm that controls feedback which improves intelligibility and reduces background noise. LecNet™ components will operate as stand-alone devices, or interconnect to provide a multitude of functions in simple to use, cost effective, rack mounted assemblies. Features include: Eight balanced inputs • Single control knob for input gain and output level • Built-in compressor/leveller with adjustable threshold • Serial port for computer interface • Remote level control • supplied with MS-DOS® software on 3.5" disc and serial patch cable for monitoring internal activity via a computer.

- AM8 Basic Version \$1,350.00
- AM8-TC W/ tone control \$1,525.00
- AM16 1x12 Programmable Matrix Mixer, 2U \$3,750.00

Optional Equipment:

- AV62 2-channel mic mixer w/6-channel stereo line mixer \$1,380.00
- EQ1 27 Band, 1/3 octave, constant-Q, has LCD display \$1,197.00
- EQ2 As above, without display or pushbuttons, computer control only \$1,065.00
- TH3 Telephone Interface w/built in LecNet™ interface \$1,425.00
- MM8 Matrix Mixer, 12 input, 8 output w/LecNet™ interface \$1,480.00
- PA8 Multi-channel power amp for mix-minus reinforcement, 1U \$1,275.00
- TA1 Line level adapter, connects any device to the AM8 mixer \$385.00
- VI24 Logic interface, provides logic out signals from up to 3 AM8 mixers \$425.00

Mixers/Consoles • Microphone

Shure SCM810

8-Channel Automatic Mixer



The Shure SCM810 is an eight-channel mixer with removable header-type I/O connectors that provide fast and simple microphone connection. It includes adjustable EQ per channel, 48V phantom power selectable for each channel, superior RF resistant chassis and circuitry, LED indication and LED output meter, peak-responding output limiter with selectable thresholds and LED indicator, and linking capability for up to 32 microphones. 120/230 Vac power.

SCM810	8 Channel Automatic Mixer	\$1,683.00
RKC800	XLR connector kit	\$229.50

Mixers/Consoles • On-Air

Arrakis 1200 Series Console

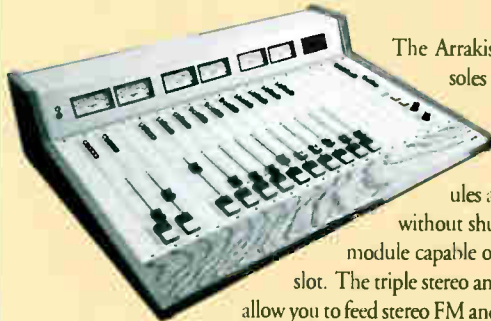
The Arrakis 1200 Series Consoles are ideal for On Air, Production and News applications where ease of use and rugged reliability are the requirement. Features include: full VCA mixing • DC switching of audio • both stereo and mono outputs so you can feed stereo FM and mono AM the same program • P&G faders • ITT long life switches • gas tight - low noise connectors • Auto-cue © monitoring system, so jocks don't have to fiddle with monitor and cue controls (works in headphones and speakers) • includes talkback support for easy intercom between operator and other studios • telephone hybrid hook ups • source selector expander • remote start relays • two external monitor selector inputs so you can hear the audio out of the



board, after processing and off air (great to help isolate system trouble) • and installation tool. Options include: digital channels option to add AES inputs with auto sample rate conversion • personalized channel-on buttons, labeled to fit your station • and customized fader knob color for easy identification of the fader's function. One mic channel comes standard, please specify the number of mic channels when ordering. 2 Year Warranty

1200-5S ..	5 Channel, 10 Inputs, stereo output	\$2,295.00
1200-10S	10 Channel, 20 Inputs, dual stereo output	\$3,495.00
1200-15S	15 Channel, 25 Inputs	\$4,495.00

Arrakis 12000 Series Consoles



The Arrakis 12000 Series Consoles are available in 8, 18, and 28 channel mainframes. Fully Hot-Pluggable Modules allow hurry up repairs without shutting down with any module capable of being placed in any slot. The triple stereo and dual mono outputs allow you to feed stereo FM and mono AM the same high quality program audio for air, recording and telephone feed. A patch panel allows swapping the audio source to other mixers without shutting down the console power. Direct outs separate mixer outputs for skimming talent or feeds to other needs like Internet broadcasting, cue line,

music on hold, etc. Mixer patch points permit easy and quick installation of EQ's, reverb and other audio sweeteners. Module on/off remote control lets the announce booth or news desk turn their own audio mixer channel on and off. Other features include: full VCA mixing • dual telephone hybrid hook ups • real VU meters • P&G faders • ITT long life switches • gas-tight, low noise connectors • crowbar power supply • Auto-cue © monitoring system, so talent will not have to fiddle with monitor and cue controls (works in headphones and speakers) • includes dual talkback support for easy intercom between operator and other studios • two external monitor selector inputs • remote start relays • table top or through table mount • and installation tool. Some of the options include: digital channels • Gemini Command Center Mounting for direct control of your DigiLink • 2nd studio monitor • expanded telephone features • source selector expander • personalized channel-on buttons • and customized fader knob colors. 2 Year Warranty

12K8-6	8 Channel MF, 1 Mic, 7 Line Modules	\$4,350.00
12K18-12	18 Channel MF, 2 Mic, 10 Line Modules	\$7,075.00
12K18018	18 Channel, 2 Mic, 16 Lin3 Modules	\$8,755.00

Please call for custom configurations and pricing.

Arrakis Revolution Series Digital Consoles



Arrakis Revolution Series Digital Consoles feature: THE DIGITAL ENGINE- which is rack mounted (3RU) and remote controlled from a Windows PC computer or Arrakis control console. The basic console engine features 12 stereo channels, 3 stereo output buses, 2 telephone mix minus buses, and stereo Monitor, Earphone, & Cue system. Each channel has A/B input select with (A) Stereo Analog input, (B) Stereo AES-EBU digital input. 5 Mic preamps are included. For 18+ channels, a 2nd engine is added to the

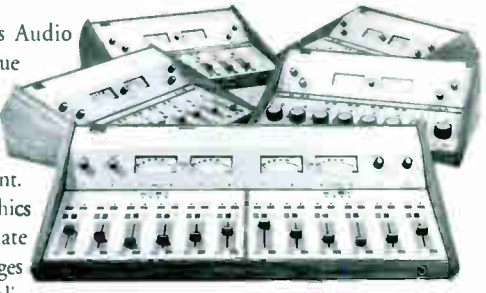
system. b) ARRAKIS CONSOLE CONTROL OF THE DIGITAL ENGINE- This is a 12000 series, 18 channel, mainframe configured for RS232 control of the Digital Engine. It is available in a 12 channel or 18 channel version. c) PC CONTROL OF THE DIGITAL ENGINE- The PC computer is user supplied and must be Windows 95/98/NT compatible, a minimum 166MHz Pentium, 32MB ram, 20MB hard disk space, floppy drive, and RS232 serial port. Two serial ports may be required with a touchscreen. If PC control is used, an optional 8 channel control surface with channel faders and on/off switches is available from JL Cooper.

REV-12P	12 Channel Digital Engine, PC Controlled (PC not included)	\$3,995.00
REV-12-C	12 Channel Console, (Engine & 12000 frame)	\$7,995.00
REV-18-C	18 Channel Console, (Engine & 12000 frame)	\$12,995.00

Mixers/Consoles • On-Air

ATI Vanguard Series Audio Broadcast Consoles

The ATI Vanguard Series Audio Broadcast Consoles are unique because most functions are controlled with raised, silent membrane switches for input selection and buss assignment. The legends are color graphics behind a tough polycarbonate overlay. The front panel hinges for access to the plug-in amplifier modules and punch block audio connections. Each console includes dual stereo program outputs, each with a mono mix dual VU meters which are switchable between program outputs. The 12 channel model includes four VU meters which monitor program 1 (L+R) and 2 (L+R) simultaneously. Other features include: four input headphone amps • cue amp and speaker • balanced, bridging inputs • four input monitor drivers • two mic preamps • active balanced outputs • external power module • and effective RF protection. Options include: input expander • mix-minus • stop/start switches • additional mic inputs • and dual mix-minus adapter.



- BC6DSL..... 6 Linear Faders, 10 Stereo Inputs \$3,399.00
- BC6DSR 6 Rotary Faders, 10 Stereo Inputs \$3,399.00
- BC8DSL..... 8 Linear Faders, 12 Stereo Inputs \$3,899.00
- BC12DSI..... 12 Linear Faders, 24 Stereo Inputs \$5,499.00

Audioarts R60 Radio On Air Console



The AudioArts R-60 Radio Console is designed for on-air applications. The console comes supplied with two stereo (program and audition) and one mono output buss. The mainframe comes supplied with 8, 12 or 18 input modules (IN-60), a dual mono microphone preamplifier (DMP-60) assignable to any input module, a control room module (CR-60), a studio control module (SC-60), and 2 accessory/expansion positions. All module switching is LED illuminated. The console meter bridge houses 4 VU meters, a six switch preselector band (LS-60), digital timer and an internal cue speaker. The 18 frame version also contains a clock and can accommodate a second (optional) preselector bank. A rackmount power supply, technical manual, connector kit and connector tools are included. R-60-18 measures: 7-3/16"H x 21-1/2"D x 36-3/4"W. The R-60-12 measures 27-3/4"W.

- R-60/18-18..... Has 2 blanks for inputs or accessories \$10,743.00
- R-60/18-12..... Has 8 blanks for inputs or accessories \$7,966.00
- R-60/12-12..... Has 2 blanks for inputs or accessories \$7,850.00
- R-60/12-8..... Has 6 blanks for inputs or accessories \$5,535.00
- IN-60 Input Module \$585.00
- SP-60 Simple-Phone™ Input module (only 1/console) \$690.00
- CP60 Copy Stand, Please specify frame size 18 or 12 \$360.00
- OM-60 Spare Master Output Module \$690.00
- CR-60 Spare Control Room Module \$690.00
- SC-60 Spare Studio Output Module \$690.00
- DMP-60 Dual Mic Preamp Card (for 2 mics) \$319.00
- LS-60 Six Stereo Source Line Selector \$319.00
- PK-60 Spare Parts Kit \$139.00

Audioarts R-17 Radio On-Air/Production Console



The AudioArts R-17 Console is designed for Radio on-air/production applications. The console will accept ten input modules and comes equipped with two stereo outputs (program and audition). Input modules may be of two types: mono (mic) and stereo (line). These may be plugged into almost any combination within the ten input positions of the mainframe. Stereo line inputs have an automatic cue circuit that sends the module's signal to the

console's cue buss and headphone outputs whenever activated. The console includes two VU meters (switchable between PGM and AUD), a built in cue speaker and a headphone amplifier. An output module contains the console's cue, control room and headphone outputs as well as a monitor source selector switchbank (PGM, AUD and external line in). The console's I/O connections are via 12-pin connectors which are supplied with the unit. R-17 measures: 21.2"W x 7"H x 16.8"D.

- R-17 10 Inputs \$4,355.00
- R-17 6 Inputs \$3,044.00
- SL-17..... Spare Stereo Line Module \$436.00
- FF-1 Full Function Tape Remote \$213.00
- SS-3 Start/Stop Tape Remote \$213.00
- MM-17 Spare Mic Input Module \$436.00
- LS-17..... Stereo Line Selector \$301.00
- PK-17 Spare Parts Kit# 052175 \$173.70

Please call for a complete list of accessories and prices!

Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com

Audioarts R-5 On-Air & Production Audio Console

The AudioArts R-5 Audio Console is designed for on-air and production applications. The console comes supplied with two stereo outputs (program and audition) and one mono output. The mainframe comes fitted with two mono microphone channels and ten stereo line input channels. Both channel types have A/B source select. Also included: simple phone channel, full function tape remote, a six-switch preselector bank and a "count up" digital timer. All switching is electronic and LED illuminated. The console meter bridge houses four VU meters, an internal cue speaker and all console input and output connections. A rackmount power supply, technical manual, connector kit and connector tools are included. R-5 measures 31.5"W x 7.75"H x 21.2"D.



- R-5 13 Inputs \$5,095.00
- PG-5 P&G replacement faders \$79.00/ea.
- CF-5 Color Fader Knobs \$5.95/ea.
- PK-5 Spare Parts Kit# 052575 \$194.28

Audioarts RD-12/20 Digital Audio Console



The AudioArts RD-12/20 Digital Audio Console is the control center for your digital studio. This deceptively simple looking console has the power of 32-bit, floating point DSP processors to handle the incredibly complex tasks that it performs. It can accept both analog and digital input signals, process them in the digital domain and then provide output signals from the console in both digital and analog formats. Your present analog equipment is not made obsolete, and the RD-12/20 can easily accommodate future digital equipment as it's acquired, so, your transition to digital can be orderly and painless. The control surface will be totally familiar to your talent, so you can avoid disastrous QWERTY keyboard "accidents". The RD-12/20 has three stereo program busses, input source selection, individual channel faders (digital level control) and, of course, channel/machine on/off switches. Audiarts innovated new technology for your talk segments, too; they've applied the power of microcontrollers and DSP's to this vital broadcast need. The RD-12/20 automatically generates a digital, error-free mix-minus signal from your selected buss and feeds it to up to four telephone callers. This console can simultaneously accept signals from several different data rates (48, 44.1, and 32kHz) and mix them without the dropout, noise bursts, or sonic malfunctions that threaten lesser technologies. The console can be set to output at any one of these standards and generate a sync output that can become your house sync... an important requirement in designing a digital system

RD-12-8	Digital Audio Console	\$10,420.00
RD12-12	Digital Audio Console	\$12,600.00
RD-20-16	Digital Audio Console	\$16,100.00
RD-20-20	Digital Audio Console	\$18,280.00
MMD-5	Mono mic input	\$800.00
SLD-5	Stereo line input, digital	\$800.00
SLA-5	Stereo line input, analog	\$800.00
SPD-5	Dual fader super phone input	\$1,250.00
SCD-5	Studio monitor module	\$650.00
LSA-5	Line selector, 7 stereo analog sources	\$700.00
LSD-5	Line selector, 8 stereo digital sources	\$1,895.00
TRD-5/FF	Tape remote module (2 sets of 6 functions)	\$495.00
TRD-5/SS	Tape remote module (6 pairs of start/stop)	\$495.00
ICMD-5	Intercom module	\$925.00
BKD-5	Blank Panel	\$40.00
EGD-5	Custom engraved off buttons, 2 lines 5 charc/max	\$20.00
CF-5	Blue or gray color coded fader knobs	\$6.00

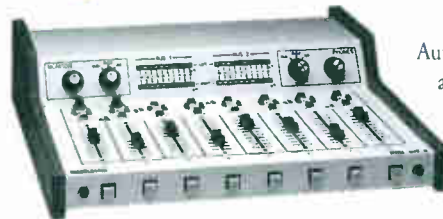
Audioarts D-70 Digital Radio Console



The new Audioarts D-70 Digital Radio Console not only utilizes the latest in digital technology and chip sets, it comes standard with a serial interface that lets it integrate with automation and station routers - as well as the exclusive Wheatstone VDIP™ software system which lets you handle setups onscreen with an external PC (no logic jumpers or dip-switches). Once configured the console runs stand-alone. Plug-in modules let you have any combination of mic, analog or digital line inputs, and the four stereo busses give you plenty of flexibility (each has both digital and analog outs). With sample rate conversion on all digital inputs and selectable console clock rates of 32, 44.1 or 48KHz the D-70 fits right in with all your facility's present equipment. The modular rear connector system and compact, tabletop mount footprint make installation fast and easy. On the functional side, fullscale digital peak plus VU or PPM metering, LED illumination everywhere, built-in machine interface, automatic timer and clock (stand-alone or ESE slave) all come standard, along with separate source selection for control room and studio and built-in talk-back. You can even order the D-70 with a Super-phone module to support two callers, and both digital and analog line selector panels are available.

D-70 12-12	Digital Radio Console	\$8,369.00
D70 20-20	Digital Radio Console	\$10,469.00
SPD-70	Dual Fader Phone Module w/Mix-Minus	\$470.00
Analog Line Select .....	.....	\$399.00
Digital Line Select .....	.....	\$399.00

Autogram's MiniMix 8A Audio Console



Autogram's MiniMix 8A professional audio console features: • Aluminum case w/oak endbells • 2 stereo output busses • mono output • 8 slide plug-in pots • 2 dedicated mic slide pots • 12 stereo inputs, 6 unbalanced stereo • 6 high level balanced pro-stereo inputs • all VCA operated • cue amplifier/speaker • Made in the USA

MiniMix 8A	Dimensions 19"x15"x5"	\$2,499.00
MiniMix 12A	Dimensions 27"x15"x5"	\$3,499.00



Broadcasters General Store
1-352-622-7700



Autogram Pacemaker Audio Console



The Autogram Pacemaker consoles feature: machine control for all inputs • legend strip for each input • VCA level control • electronic switching • no audio transformers • P&G linear conductive plastic pots • Shallco selector switches • engraved front panel • pluggable miniature terminal strips • up to eight patchable mic preamplifiers • easy input level selection • and optional Autoclock.

618	6 Pots, 5 dual and 1 with 8 inputs	\$5,221.00
648	6 Pots with 8 inputs each	\$6,790.00
828	8 Pots, 6 Dual and 2 with 8 inputs each	\$6,515.00
1032	10 Pots, 8 Dual and 2 with 8 inputs each	\$7,727.00

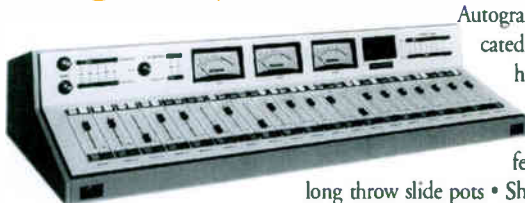
Autogram Pacemaker II

The new Autogram Pacemaker II has modern styling and color with wood end bells. Some of the features include: exclusive bi-modular concept • all DC control- easy replacement of front panel modules with no clicks or pops • screw-type plug-in connectors • P&G Pots • all LED illumination • self-resetting "poly-fuses" protect individual circuit boards • lighted meters • built-in cue speaker • and Autoclock.



Pacemaker 218	Mainframe, holds up to 14 modules/ up to 40 stereo inputs	\$6,620.00-\$8,796.00
Pacemaker 228	Mainframe, holds up to 24 modules/ up to 60 stereo inputs	\$8,649.00-\$12,457.00
DIM	Dual Input Module, 1 dual front panel & dual amp/control bd.	\$300.00
8LM	8-Line Module, one 8-line front panel, 8-line audio bd. & 8 line control bd.	\$500.00
BFP	Blank Front Panel	\$28.00

Autogram R/TV-12 Televison Console



Autogram R/TV-12 has 8 dedicated pots and the R/TV-20 has 18 dedicated pots. These consoles have the following standard features: Penny & Giles long throw slide pots • Shadow selector switches • true API w/meters • screw-type pluggable connectors • optional live assist interface card & control box • up to 8 patchable mic preamps (quad mic preamp card) • electronic switching & VCA level control • two mix-minus busses • all inputs have adjustable inputs • two watt, 8Ω cue amp • two watt, 8Ω headphone with selectable inputs. The R/TV Live Assist Package allows complete random sequencing of all console channels plus remote control.

R/TV-12	12 Pots - 28 Stereo Inputs	\$11,353.00
R/TV-20	20 Pots - 34 Stereo Inputs	\$13,651.00
R/TV/LAP	Live Assist Package	\$1,423.00
LAPO	Live Assist Panel Only to add another operating position	\$638.00
SPK	All spare R/TV circuit cards	\$230.00

Dixon SP16 Modular Console



The Dixon SP16 is a fully modular console with all inputs and outputs at the front of the console. Features include: line and mic inputs with insert points in each module • fully

balanced stereo program and audition busses • built in talkback system with send to four locations • mono mix-minus buss (to phone system) • phantom power for condenser mics built-in • conductive plastic faders • versatile remote control (all solid state) • isolated start/stop switches • count up timer built in • third stereo master output for mix-minus sends (i.e. ISDN back-feeds) • 2U heavy duty power supply • cue amp and speaker.

SUB16-A	Console Mainframe	\$1,406.00
MOM-01	Master Output Module	\$213.00
MON-01	Monitor Module	\$248.00
TBC-01	Talkback/Cue Module	\$241.00
LIM-01	Line Input Module	\$316.00
MIM-01	Microphone Input Module	\$316.00
PS16	Power Supply	\$406.00

Also see the CT-22 Studio Turret on previous page.

Dixon NM-250 Newsroom/Workstation Console



Dixon NM-250 was designed specifically for newsroom/workstation operation. Features include: 2 mic inputs with on/off

switch • 48V phantom power • mono line input for telephone hybrid return • built in mix-minus buss for feeding telephone hybrid • I/O for computer sound card, -10dBV Unbalanced RCAs • front panel jack input for unbalanced DAT or cassette • 2 balanced +4dBm line inputs • talkback system- 2 sends & receives • cue system with dimming • LED VU meter display • monitor select- mixer or off-air • and built in headphone amp.

NM-250	Newsroom/Workstation Console	\$1,195.00
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Dixon CT-22 Studio Turret (for any console)



The Dixon CT-22 Turret was designed to work with virtually any console. It controls two microphones, includes two stereo headphone amplifiers with their own volume control and has an input for talkback receive. All you need is +24Vdc from your console and all controls are ground start. Connection via D-25 connector.

CT-22	Studio Turret	\$358.00
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LPB/Fidelipac MXA Series



The LPB/ Fidelipac Dynamax MXA Series has a true modular design with ultra-reliable motherboard construction. Features include: active balanced line inputs • active balanced main and monitor inputs • full monitoring/cueing facilities with VCA level control • built-in cue amp with speaker and amplified stereo 8Ω headphone output • independent level controls for each "A" and "B" input • independent remote start for each "A" and "B" input • opto-isolated remote module on/off • two inputs per module, mic/line or line/line inputs may be mono or stereo • four assignable outputs, two stereo plus two mono • sturdy all-steel construction • durable Lexan overlay control surface.....From \$2,595.00.

LPB/Fidelipac Dynamax MX Series

Modular Consoles



LPB/Fidelipac's Dynamax MX Series is a full line of modular consoles with all the active circuitry on the modules, not the motherboard. Stereo program and audition outputs are assignable from the front panel and two programmable mono outputs are provided for mix minus and cue feed. Each input module features external logic switching for starting source equipment and has two inputs selectable between mono or stereo, balanced, unbalanced, or mic. Dynamax MX consoles include a built-in cue amplifier, speaker and simplified headphone output that can be jumpered for a variety of monitor mute/dim configurations. Two mic preamps (installed) and one technical manual are supplied with the console.

- MX8L 8 channels, 16 inputs, 26" base \$4,295.00
- MX8R 8 channels, 16 inputs, 26" base, rotary faders \$4,695.00
- MX12E 12 narrow channels, 24 inputs, 26" base \$5,495.00
- MX12LW 12 channels, 24 inputs, 38" base \$5,595.00
- MX12EW 12 narrow channels, 24 inputs, 6 open slots, 38" base ... \$6,195.00
- MX18EW 18 narrow channels, 36 inputs, 38" base \$7,395.00

(the above represents just a sample of the full Dynamax MX line)

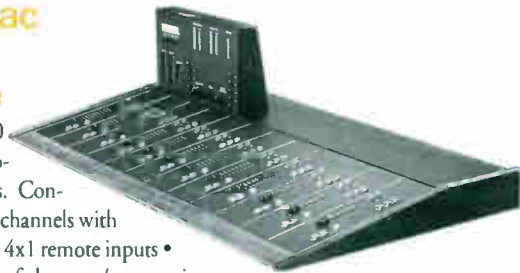
LPB/Fidelipac MX/D Digital On-Air console



The LPB/Fidelipac MX/D Digital On-Air console is equipped with up to eight interchangeable input board modules, each providing two channels with XLR inputs. Input boards are analog or digital and may be selected in any combination at the time of purchase. Analog modules have onboard A/D and digital modules have onboard SRC to convert all signals to the DSP sample rate. Three digital plus three analog channels are available for the MX/D output. Simultaneous analog and digital outputs support two stereo and one mono buss. Digital output is jumper selectable to either 48kHz or 32kHz. Future flexibility is permitted through the interchangeable input modules which can be augmented and reconfigured with relative ease.....From \$7,995.00.

LPB/Fidelipac BA1230

Digital On-Air Console



LPB/Fidelipac's BA1230 has 12 channels with a total of 30 available inputs. Control surface includes: 12 channels with "A" and "B" inputs • two 4x1 remote inputs • two separate air inputs • fader start/stop option • full output metering • two stereo and one mono output buss • time of day/event timer combination • phone and monitor source select and level controls • left, right or low profile meter bridges optional. Digital inputs feature: XLR connection • AES/EBU and S/PDIF formats • accepts sample frequencies from 24kHz to 50kHz • sample rate converter on each digital input. Analog inputs feature: individual analog level adjust for both "A" and "B" inputs • 18-bit A/D converters • XLR connection • mic line jumper option.....From \$11,995.00.

LPB 7000 On-Air Consoles



LPB's 7000 Series consoles incorporate stereo slide-faders and plug-in electronics behind a fixed front panel with gold contacts throughout. It features: 2 inputs per channel • 3 stereo output busses • 3 mono outputs for mono-mixdown or mix-minus • 3 stereo tape outputs • and 3 mono tape outputs. The 7000 Series has remote starts for all inputs with blinking ready lights and programmable muting for cue plus 4 sets of monitor speakers. Channel stop and start can be controlled remotely and the timer can follow channel activation for either cumulative or event timing. Also included are headphone and cue amps, cue speaker, monitor driver and a rack mount power supply.

- 7012 12 channel stereo \$6,995.00
- 7018 18 channel stereo \$9,295.00
- MINUS-1 Mix-minus plug-in card for single buss \$125.00
- MM-1 Mono-mixdown plug-in card for single buss \$150.00

LPB Blue 5c On-Air Console



An industry first in RJ-45 connectivity, LPB's new Blue 5c console is ideal for remotes, LPFM and Webcasters. It comes with 5 stereo channels, 10 stereo inputs, stereo program buss, stereo cue buss, mono telephone buss,

\$1,295

Blue 5c

remote starts, muting and transformer balancing for RF immunity. Other features include: 2 independent headphone amplifiers • heavy duty mil-spec switches • input follow muting • and input follow remote starts.....\$1,295.00.

Don't Forget RDL!



BALANCING ACT x 6

This product features six identical channels, making it ideally suited to converting six channels of consumer sound into the professional audio format. All packaged in RDL's new Flat-Pak™ Series chassis. Each input channel is unbalanced, connected through a gold plated phono jack. Each output is balanced, connected through an XLR jack. A gain trim potentiometer is provided for each channel. Cost per channel, what you would expect from RDL!



Toll free (800) 281-2683
Local (805) 684-5415
Document Server (800) 391-0017
Europe (+31) 20-6238 983
Web Page www.rdl.net

The Ideal Mixer for the Less Than Ideal World!



Not every application calls for a large mixer with lots of options. Sometimes you need a small, high quality mixer that is very user friendly and can be placed right where you need it. At 1.7 inches high by 5.6 inches wide, the RU-MXS can fit on the bill. Four of the inputs can accept either mic or line levels. The fifth input is for line level sources. Mic inputs accept either high or low impedance, balanced or unbalanced mics and provide for individually assignable 24v phantom power. The fifth output is available at both line and mic levels, plus metering as provided by the LED indicators. When you need additional, convenient, high quality mixing, the RU-MXS from the Specialists in Practical Precision Engineering™.



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NEW series from RDL is the hit of the show! 7 new Flat-Paks™ from Radio Design Labs



New FP-VDA4, 4x Composite Video DA

- FP-VDA4 Video Distribution Amplifier
- FP-SVDA4 S-Video Distribution Amplifier
- FP-AVDA4 Audio Video Distribution Amplifier
- FP-UBC2 2-Channel Unbal. to Bal. Converter
- FP-UBC6 6-Channel Unbal. to Bal. Converter
- FP-DFC1 SPDIF to AES/EBU Format Converter
- FP-DC1 12 to 24 DC / DC Converter



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The Monitor Panel that listens to just about anything!



RM-MP12 Monitor Panel

- ✓ Twelve Selectable Audio Inputs; Line Level, 8 W Speaker, 25v - 100v Speaker
- ✓ LED Above Each Button to Show Selected Source
- ✓ YU Ballistic LED Above the Button for Each Audio Input
- ✓ Calibrated Front-panel Meter Display
- ✓ Front-Panel Speaker and Headphone Jack plus Rear Panel Line Outputs
- ✓ Digital Attenuator for Headphone & Speaker Control
- ✓ Internal 4.5 W RMS Power Amplifier with Additional Rear Panel Output



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Now RDL makes your Digital life a lot simpler with 8 New Products featuring SURE-LOK™



New Flat-Pak™ Series

For format conversion, switching and distribution, RDL has a digital product for you. Each featuring Sure-Lok. The auto-recovery circuitry that monitors the most frequent causes of latch-up and reintroduces digital signal lock, bringing a higher level of stability in a variety of professional environments.



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RDL

Radio Design Labs

Digital Audio Routing and Mixing Made Simple




Logitek takes the guesswork out of going digital. We start with the Logitek Digital Audio Engine, a centralized point for all audio inputs and outputs at your facility (analog and digital). The Audio Engine performs routing, mixing and equipment control functions. Multiple engines may be networked for maximum flexibility.



Next, you have your choice of several versatile console control surfaces. The ROC-10 (shown here) gives you ten fully assignable faders.

Other choices include the modular Numix, with a range of 6 to 24 faders, the compact ROC-5 (five faders, ideal for a newsroom or announce booth), or you can go "virtual" with our Vmix PC-based control surface. Up to three control surfaces may be run from one Audio Engine. Only one cable is needed for connection of a surface to the Audio Engine.

With Logitek, you'll enjoy the benefits of great sounding audio, near-instant reconfiguration, and easy wiring. Join the worldwide group of Logitek Digital Console users today! Call your Broadcasters General Store representative for more information.



Logitek

Digital With a Better Difference

Logitek Digital Audio Console System

Logitek's Digital Audio Console System is based on a digital router mainframe, the AE32 Digital Audio Engine, which can hold up to eight, 8x8 mono/4x4 stereo analog or digital I/O cards two DSP audio processor cards, and up to two power supplies. The mic pre-amp unit is housed externally and offers four independent pre-amps with balanced I/O on XLR connectors. One mainframe can normally support two separate studio consoles and multiple mainframes can be interconnected to share audio sources. Any input to the Engine mainframe can be assigned to any fader on any console in the system. The Digital I/O card accepts AES/EBU or SPDIF digital formats and automatically adapts to the input sample rate. The analog I/O card converts to/from the digital domain via 20-bit A/D/A converters. The DSP processor card comes standard with one Analog Devices SHARC DSP, which can be upgraded to the Full House multi-DSP card. The master sample rate for the Engine is selectable (32/44.1/48kHz or an external clock). The Full House DSP card can also hold a standard DIMM memory card (available at your local computer store) for integrated audio profanity delay. The communications card has four serial ports and configurable banks of 16 relays and 16 switch inputs for machine control. The mainframe can house up to two hot-swap power supplies. The mainframe is addressed by a PC/RS232 port for automation control or modem interfacing. The 9-pin RS485 ports allow connection of any of several Logitek Console control surfaces. The ROC-10 has ten faders, looks feels and sounds like a standard air console and its smaller sibling, the ROC-5, has 5 faders.

The ergonomic Numix console can feature from 6 to 42 faders and include profanity delay control and other audio processing functions and full computer automation interfacing via its large LCD displays.

Radio System RS Millenium Consoles

Radio System RS Millenium Consoles all feature 3 output busses, complete remote control and metering, a comprehensive monitor section with standard eight position selector and a clock/timer. Models differ only in their channel count and meter overbridge. Other features include: soft touch rubber keypads • VCA technology and electronic switching • every remote, timer, muting, channel and remote control function is available and programmable by input via internal jumper straps with most being activated by console channel on/off switches • remote control is accessible on a 15-pin D connector for every channel, each selectable by A/B input • 8-position selector/switcher provides control to any external device • inputs are fully level agile • mic cough button • selectable cue logic • and an external rack mount power supply.

RS-6A	6 Channel stereo console	\$4,495.00
RS-12A	12 Channel stereo console	\$5,995.00
RS-18A	18 Channel stereo console	\$8,495.00
RS-24A	24 Channel stereo console	\$12,995.00

Logitek



NUMIX Control Surfaces

- NW-F Fader Wedge \$3,150.00
6 fully assignable P&G faders per wedge • Hall effect on/off pushbuttons • all LED illumination • up to 4 fader wedges per console (SharAttack required for more than 3 wedges)
- NW-S Selector Wedge \$4,180.00
Monitor & Cue • 2 talkback switches • input select & bus assign • 3 monitor sections • 2 stereo VU & peak LED meters (1 Selector Wedge required per console)



AE32



ROC-5

- AE32 Mainframe w/1 DSP, 1 I/O card, mic pre & PS \$2,850.00
- IO20A 20-bit analog I/O card \$950.00
- IO4D Digital I/O card \$950.00
- IO8D Digital I/O card \$1,499.00
- AE-NETA 500 ch. network card, uses 1 I/O slot ... \$2,200.00
- LS-DSP Additional DSP card w/ single DSP 1 req'd for 1 control surface/2 for more than 1 surface (max 2 per engine) \$950.00
- SA-DSP Additional DSP for audio processing \$3,000.00
- AE-C2 Redundant COMM/Control Card \$950.00
- AE-PS Redundant Power Supply \$399.00
- ROC-5 5 Fader Control Surface \$2,699.00
- R5P&G P&G Fader Option for ROC5 \$295.00
- ROC-10 Ten Fader Control Surface \$4,699.00
- R10P&G P&G Fader Option for ROC10 \$590.00
- Wood Frame kit for Roc Consoles \$105.00

Ward Beck R2K Radio Console Series



The Ward Beck R2K Radio Console Series features: lightweight, modular, all metal construction • RS422 serial port for turret or automation control • all connections via Phoenix pluggable screw terminals • A/B input select on all modules • 4 stereo program outputs standard • 2 assignable mono mix busses • 6 telephone clean-feeds • balanced inserts and direct outputs from each module • full featured control room and studio monitoring • digital shaft encoder control room monitor level control • timer and clock (all time code standards supported) • and rackmount power supply frame offers dual redundancy.

- R2K/8 Rack Mt. Console w/6 R201 input modules, 1 R202 program output module, 1 R203 CRM module, 1 R206 utility module & 3 BP \$4,700.00
- R2K/12 ... 12 R201 input modules, 1 R202 program output module, 1 R203 CRM module, 1 R204 studio monitor module, 1 R206 utility module, 1 MF251 pwr. supply mounting frame, & 1 M8246 pwr. supply \$10,515.00
- RSK/20 ... 16 R201 input modules, 1 R202 program output module, 1 R203 CRM module, 1 R204 studio monitor module, 1 R205 8x2 stereo line selector 1 R206 utility module, 1 R209 clean feed module, 1 R2KBP blank panel, 1 MF251 pwr. supply mounting frame, & 1 M8246 pwr. supply \$14,015.00
- RSK/28 ... 20 R201 input modules, 1 R202 program output module, 1 R203 CRM module, 1 R204 studio monitor module, 1 R205 8x2 stereo line selector, 1 R206 utility module, 1 R209 clean feed module, 6 R2KBP blank panels, 1 MF251 pwr. supply mounting fram, & 1 M8246 pwr. supply \$16,580.00

Mixers/Consoles • Powered

Electro-Voice PSX Series Stereo Powered Mixers



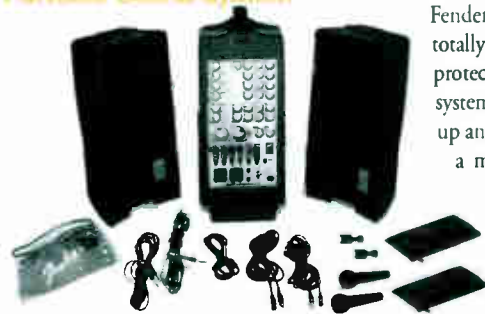
The new EV family of PSX powered mixers was designed to provide double the power and double the effects processors, for professional-level performance and flexibility in a portable, easy-to-set-up system. Using technology derived from EV Precision Series™

amplifiers, the PSX powered mixers deliver more watts per channel (all the way from the 2 x 300W PSX600 to the 2 x 700W PSX2200 (at 4Ω's). In addition, the amplifiers have limiters that prevent them from going into destructive clipping, and protect against damage from short circuits and thermal overload. All the PSX models come equipped with two separate 18-bit digital effects processors. Each processor is designed with 100 presets including reverb, echo, plate, delay, chorus, and flange effects. Operated by up/down keys and a large LED display. There are separate sends on each channel so that the effects can be routed to the monitor mix. Other extras include: stereo 7-band equalizer • vocal voicing filter on mono channels for increased vocal intelligibility • switchable, 80Hz, low-cut filter reduces handling and stage noise • and locking metal cover and recessed handles make transportation easy and safe.

PSX600	2x300W @4Ω's, 6 mic & 2 stereo line inputs, 42lbs....	\$1,698.00
PSX1000	2x500W @4Ω's, 10 mic & 4 stereo line inputs, 42lbs....	\$2,398.00
PSX1600	2x500W @4Ω's, 16 mic & 4 stereo line inputs, 42lbs....	\$2,998.00

Fender P-250 Passport

Portable Sound System



Fender P-250 Passport is a totally self-contained, self-protected portable sound system. It can be picked up and carried as easily as a medium-sized suitcase, set up in minutes and operated by anyone. Some of the features include: 250 watts

(2x125w), 2 stand or wall mountable speaker enclosures each with 4 full range, high efficiency drivers • 4 balanced XLR/phone jack inputs for microphones, instruments or other devices plus 2 stereo/mono line inputs for cassette, CD, computer audio, etc. • 2 additional speaker jacks for extension and line outputs for Passport Powered Expander System • digital reverb, stereo record (RCA) outputs, effects send and return jacks, priority/ducking feature on channel 1 • switchable stereo (left/right) or mono (main/monitor) operation • switchable line voltage for worldwide AC operation • operates on 12V battery with optional DC-DC Converter • and covered by a 5 Year Warranty. Complete package includes: 250W (stereo 2x125W), 4 mic/line inputs plus two stereo input channels; 2 Fender P-51 microphones, clips, cables and pouches; 2 speaker cables; power cable and a clear protective cover.

P-250.....	Passport Portable Sound System	\$949.99
P-150.....	150W (stereo 2x75W), 3 mic/line plus one stereo input channel, 2 speaker enclosures, 1 mic and cable	\$699.99

JBL EON 15PAK P.A. System



JBL EON 15PAK has an exclusive titanium compression driver instead of a piezo HF transducer. It delivers the most accurate high frequency response available. The EON 15PAK weighs in at just 40 pounds, the lightest in its class. The woofer has neodymium magnets that are more than ten times lighter than conventional magnet structures and much more powerful. The JBL EON 15PAK has an exclusive internal bi-amplification- a discrete 130 watt low frequency amplifier that works in conjunction with a 50 watt high frequency amplifier. Together, they give you the most accurate reproduction of every frequency in the spectrum. maximum performance, better reliability and greatly reduced distortion at high levels. It also includes 4-band equalization to help you avoid the midrange difficulties often encountered with standard bass and treble controls, and JBL's Thermomaster® Total Thermal Management System® to keep the amps cool no matter how hard you drive them (the louder you play them - the more they dissipate the heat). These monitors can be placed in the upright and monitor position without extra hardware. A built-in submixer eliminates the need for additional components. And you'll find two 1/4" line-level inputs with individual and master volume controls, one switchable XLR input, an effects loop and line-level output for direct connection to the console and a headphone jack.

EON15PAKBK	Compact Black P.A. System	\$899.00
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Mackie PFM™ Series Professional Powered Mixers



Mackie PFM™ Series Professional Powered Mixers feature: Amps switchable as mains or main + monitor • 8 mic/line channels with master phantom power (6 channels on 406M) dual line inputs on channels 7&8 (stereo on 408S and 808S) • input gain control with innovative level-set LED on each channel • active 3-band EQ on all channels and insert jack on channels 1-6 • separate 9-band graphic EQs on mains & monitor • 32-bit custom EMAC™ digital effects processor, 16 effects, 2 parameter controls • special EFX SIDE switch enhances reverb, chorus and flange effects • pan controls and main stereo graphic EQ on 408S and 808S stereo models • BREAK SWITCH mutes channels 1-6 during breaks • Compressor with special design circuit kills any distortion when amp is driven to extremes without affecting overall sound levels • custom-cast heat sink for maximum heat dissipation while black coating improves thermal efficiency by 15% • and rugged injection molded case.

406M	6 mic/line channels, 500W/2Ω Mono Powered Mixer	\$699.00
408M	8 mic/line channels, 500W/2Ω Mono Powered Mixer	\$799.00
808M	8 mic/line channels, 1200W/2Ω Mono Powered Mixer	\$899.00
408S	8 mic/line channels, 500W/2Ω Stereo Powered Mixer	\$899.00
808S	8 mic/line channels, 1200W/4Ω Stereo Powered Mixer	\$999.00

Mixers/Consoles • Powered

Samson S62 6-Channel Powered Mixer

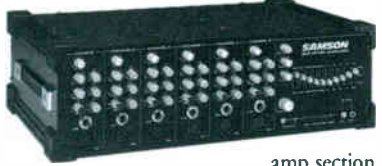


The Samson S62 6-channel powered mixer has a portable design with tough reinforced corners and a carry handle with supplied rack ears. Features include:

- 6 balanced XLR mic/line inputs
- power amp section produces 150 watts into 4Ω
- internal 3-spring reverb
- 1 aux/ reverb send
- 1 aux and 1 reverb return, each with front panel level controls
- 5-band master graphic EQ
- 2-band EQ on each channel
- 48V phantom power for mic input connectors
- master main level control
- master protection, peak and power LEDs
- and 2 speaker outputs. 2U & 17.6lbs.

S62 6-Channel Powered Mixer 419.99

Samson S63 6-Channel Powered Mixer

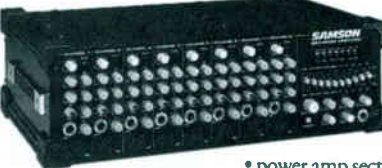


The Samson S63 6-channel powered mixer has a portable design with tough reinforced corners and a carry handle with supplied rack ears. Features include:

- 6 balanced XLR mic/line inputs
- power amp section produces 200 watts into 4Ω
- on-board reverb
- 2 aux sends per channel
- 2 stereo returns with dedicated level controls for outboard effects
- 3-band EQ on each channel
- 10-band master graphic EQ on the main output
- selectable 48V phantom power
- input trim control on each channel
- master monitor and reverb level controls
- protection relay circuit
- rear panel amplifier input and preamp output. 4U & 34.8lbs.

S63 6-Channel Powered Mixer \$479.99

Samson S83 8-Channel Powered Mixer

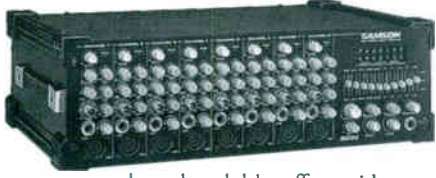


The Samson S83 8-channel powered mixer has a portable design with tough reinforced corners and a carry handle with supplied rack ears. Features include:

- 8 balanced XLR mic/line inputs
- power amp section produces 300 watts into 4Ω
- 3-spring reverb
- 2 aux sends per channel
- 4 effects returns for outboard processing
- mic input control on each channel
- master monitor and reverb level controls
- headphone amp with 1/4" stereo TRS connector with level control
- front panel output level meter
- 4-band EQ on each channel
- 10-band master graphic EQ on main output
- selectable 48V phantom power
- protection relay circuitry
- rear panel amplifier input and preamp output. 4U & 31lbs.

S83 8-Channel Powered Mixer 599.99

Samson SD8 8-Channel Stereo Mixer



The Samson SD8 8-channel stereo powered mixer has a portable design with tough reinforced corners and a carry handle with supplied rack ears. Features include:

- up to 256 variations of Zoom digital reverb and delay effects with separate DSP level control
- 8 balanced XLR mic/line inputs
- power amp produces 250 watts a side into 4Ω
- 3-band EQ on each channel
- master 10-band graphic EQ on the main output
- master monitor and DSP effects level controls
- 2 external aux sends and one internal aux send per channel
- 2 stereo effects returns with front panel level controls
- stereo headphone amp output with level control for isolated monitoring
- global 48V phantom power
- mic input trim control on each channel
- protection relay "muting" circuitry
- and front panel output signal level meter. 4U & 34.8lbs.

SD8 8-Channel Stereo Powered Mixer \$929.99

Samson TM300 & TM500 Powered Mixers

Samson's TM300 and TM500 powered mixers are easy-to-use table top or rack mountable mixers. Features include:

- dual 7-band graphic EQ
- 3-band EQ on mono channels
- 2-band EQ on stereo channels
- 2 aux sends per channel
- 2 aux returns
- and fan cooled bipolar design.



The TM300 has 3 preset DSP effects; 6 mono mic/line channels; and the stereo power amp produces 150 watts per side into 4Ωs. The TM500 has a built-in DSP section with up to 256 effects variations; 8 mono mic/line channels; and the stereo power amp produces 250 watts per side into 4Ωs.

TM300 Powered Mixer, 8U & 29.7lbs. \$599.99

TM500 Powered Mixer, 8U & 36lbs. \$839.99

Spirit PowerStation Powered Mixer



Spirit PowerStation combines studio quality mixing and digital effects with an audiophile power amp... everything you need between stage and speakers in a single rugged package. A few of the main features include:

- 8 or 16 mono and 2 stereo input channels
- 24 inputs, including tape and effects returns
- UltraMic™ pre-amp
- 2x300W or 2x600W @ 4Ω
- built in Lexicon® effects processor
- PFL solo on all channels
- 3-band EQ, with swept mid frequency on mono channels
- 3 auxiliaries for effects and foldback
- 2 x 7-band dual graphic EQ w/EQ bypass
- high pass filter on input channels
- 40Hz sub-sonic filter on outputs to protect speaker cabinets
- stereo return
- 48V phantom power
- inserts on mono channels and mix outs
- separate power amp input to amplify external sources
- dedicated record outs and tape returns
- dedicated mono output
- integral patchbay
- and rugged steel chassis.

PowerStation 600 8 balanced mono mic/line inputs & 2 stereo ch. \$1,649.95

PowerStation 1200 ... 16 balanced monomic/line inputs & 2 stereo ch. \$1,999.95

RW5518 Rack Kit for PowerStation 600 \$39.95



Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com

Mixers/Consoles • Powered

Yamaha EMX620/660 & EMX860ST Powered Mixers



The Yamaha EMX620 and EMX660 powered mixers has 4 & 6 input channels that accept either XLR or 1/4" inputs. 2 inputs that accept Super Hi-Z inputs, and an RCA plug. Both units include a built-in graphic equalizer. The main output on the EMX620 has a 7-band graphic EQ, while both the

main and monitor outputs provide 7-band EQ on the EMX660. The amplifiers in both units are protected from damage by built-in limiters that will also protect connected speakers.

EMX620 6 Inputs, 3 Effects, 200W (x1) @ 4Ω, 28 lbs. \$499.00
 EMX660 10 Inputs, 8 Effects, 300W (x2) @4Ω, 35 lbs. \$649.00

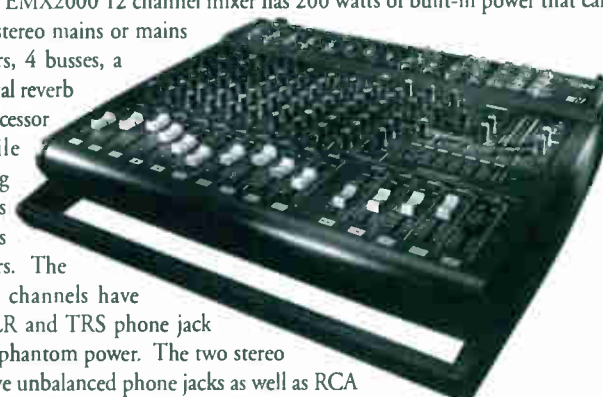
The Yamaha EMX860ST powered mixer has 8 input channels; 1-6 with balanced XLR and TRS phone jack inputs; 7-8 with balanced XLR and unbalanced phone jack inputs. Features include: internal DSP provides a choice of three reverb effects • three internal 200 watt power amplifiers for stereo main and monitor speakers incorporating Yamaha's EEEngine technology for efficient operation • 48V phantom power • 7-band graphic EQ • and 5 point LED meters.

EMX860ST 10 Inputs, 3 Effects, 200Wx3 @ 4Ω, 37 lbs. \$899.95

Yamaha EMX2000

12 Channel Stereo Powered Mixer

The Yamaha EMX2000 12 channel mixer has 200 watts of built-in power that can be used for stereo mains or mains and monitors, 4 busses, a built-in digital reverb and echo processor and versatile signal routing capabilities for effects and monitors. The eight mono channels have balanced XLR and TRS phone jack inputs with phantom power. The two stereo channels have unbalanced phone jacks as well as RCA pin jacks. Built-in are 16 digital effects, 7-band graphic equalizer and loaded with features for dozens of applications. 30.86lbs.



EMX2000 Stereo Powered Mixer with DSP, 200Wx2 @4Ω \$999.95

Mixers/Consoles • Production

Alesis Studio 12R

Mixer/Microphone Pre-amplifier



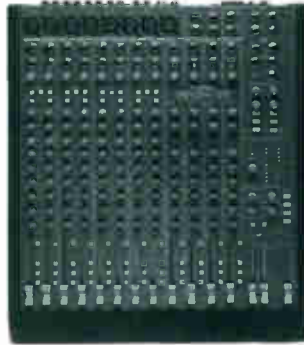
The Alesis Studio 12R combines excellent audio quality, signal flow versatility and a space-saving compact design. Features: 12 channel rackmount design • eight hybrid/discrete mic preamps with low noise and high output • 2-band shelving EQ at 12kHz and 80Hz • 2 aux sends (pre and post fader) for monitor returns and effects • 8 balanced XLR mic inputs • line inputs, aux sends and insert points on each channel • headphone jack in front • long-throw faders • 48V phantom power • and versatile routing and interfacing. 3U & 8lbs.



Studio 12R Mixer/Microphone Pre-amplifier \$449.00

Alesis Studio 24

Recording Console w/Inline Monitor



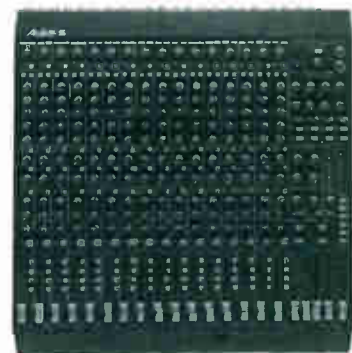
The Alesis Studio 24 offers eight input channels for mono audio sources, four stereo input channels for dual channel devices and two stereo aux returns for effects processors. Other features include: record and mix eight tracks without re-patching • 3 band EQ at 12kHz and 80Hz with sweepable midrange • two stereo groups for submixes • pan control, solo switch and peak indicator on each channel. The Studio 24's eight hybrid/discrete phantom powered mic preamplifiers are designed to meet the challenges of 20-bit digital recording, and it provides eight individual XLR inputs, making it perfect for applications that require you to route multiple audio sources simultaneously. 14lbs.



Studio 24 \$799.00

Alesis Studio 32

Recording Console w/Inline Monitor



The Alesis Studio 32 is a 16 channel, 4 group, inline monitor recording console which offers sonic quality and routing versatility that goes far beyond the capabilities of any mixer in its price range. The Studio 32 lets you send up to 24 audio signals to a recorder and monitor 16 channels coming back from tape at once, without re-patching. Its 16 hybrid/discrete phantom powered mic preamplifiers offer excellent sonic quality, low noise and high headroom with more than 60dB of gain. In addition to its low and high shelving EQ controls, the Studio 32 features a powerful, fully parametric mid frequency EQ with frequency sweep, gain and bandwidth (Q) controls. Other features include: six aux send (4 post fader, 2 pre fader), four stereo aux returns • pan control, mute and solo switches, peak and signal indicators on each channel • all audio connections on rear panel • 16 individual XLR inputs • and 40 input sources at mixdown. 20lbs.



Studio 32 \$1,149.00



1-352-622-7700

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World Radio History

Mixers/Consoles • Production

Allen & Heath MixWizard

WZ12:2DX

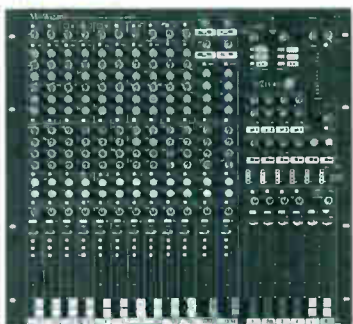


Allen & Heath's MixWizard WZ12:2DX, WZ16:2DX and WZ14:4:2+ feature: 4 band EQ with 2 sweepable mids • 100Hz low cut filters • balanced mic/line inputs • 6 auxes on individual pots • 100mm dust protected smooth travel fader • QCC connectors for easy rack or desktop mounting • MSP- Minimum Signal Path design

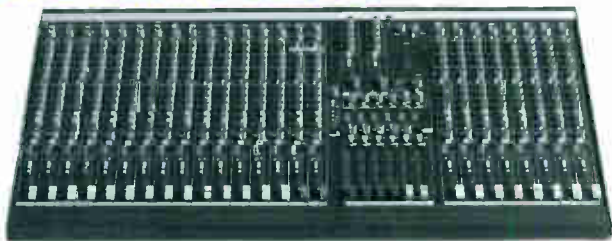
electronics • 12 segment bargraph metering • 70dB input ranges • channel-on switches and LEDs • +48V switchable phantom power • AFL/PFL monitoring • and metal jack sockets. The WZ14:4:2+ has a pink noise generator while the other models have onboard FX. 10U.

- WZ12:2DX \$1,099.00
- WZ16:2DX \$1,299.00
- WZ14:4:2+ \$1,499.00

WZ14:4:2+



Allen & Heath's GL2200



Allen & Heath's GL2200 has four frame sizes, 12, 16, 24 or 32 channels, including two full-feature stereo channels and two further stereo returns. Further expansion is available through the Sys-Link™ buss interconnection system. Features include: FOH/stage monitor dual functionality • 4 groups, 6 auxes • groups, auxes and L, R and M outs • 2 stereo line channels with mic capability • 2 stereo returns with faders, EQ and aux sends • channel direct outs • 2-track send and return • 4-band EQ with swept mids and I/O switch • input metering on each channel • phantom 48V, switchable on each channel • inserts on all mono inputs • inserts groups (auxes) and L-R outs • comprehensive AFL/PFL monitoring • pink noise generator for speaker setup • oscillator for equipment line up • talkback facility • internal power supply • built-in combiner for external power supply • and console lamp connector.

- GL2200-412 1,899.00
- GL2200-416 2,299.00
- GL2200-424 2,999.00
- GL2200-432 3,499.00
- GL22SYS-Link 349.00

AudioArts® MR-40 Audio Console



The AudioArts® MR-40 audio console is designed for 4-track radio production applications. It provides a unique combination of powerful production features and important broadcast logic functions all in a compact modular system, easy to install or interface.

Features include 4-track buss assign for multitrack recording and program assign for 2 direct-transfer or on-air use. Machine start/stop functions are included, as well as 3-band input EQ and a stereo effects send buss that follows stereo channel balance controls. Mono modules have both mic and line input (for both recording and track playback). The console's four subgroups provide fader control for record levels and also have a second track for playback path for quick session work. A complete on-air type monitor section provides control room, headphone, and studio outputs plus muting and tally functions. The console comes supplied with a cue function, complete with a built-in cue speaker and power amp. Exceptional performance characteristics make the MR-40 ideally suited for 4-track analog and digital work stations and allow it to double as a back-up on-air board. The standard console comes supplied with 4 mono mic/line inputs, 8 stereo line inputs, 2 sub-master modules (housing four sub-master channels), a stereo master output module and a control room monitor module. Two accessory module positions are located at the right hand end of the mainframe. These can house stereo line selector and/or tape remote control panels. A meterbridge houses the four subgroup VUs, left and right program master VU meters, and the built-in cue speaker. A separate rackmount power supply completes the system. MR-40 measures 26.9"W x 7.7"H x 22.2"D.

- MR-40 4 mono mic/line modules and 8 stereo line modules \$9,235.00
- ML-40 Spare Mono Mic/Line Module \$487.00
- SL-40 Spare Stereo Line Module \$487.00
- LS-40 Stereo source selector (1x5) \$317.00
- TR40FF Tape remote, 1 set full-function \$289.00
- TR40SS Tape remote, 3 pair start/stop \$289.00

Please call for other options and prices!



Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com



Behringer MX802A

Behringer's MX802A has 4 mono channels with Peak LEDs/2 stereo channels for effects • 2 aux sends/2 stereo returns • 3 band EQ (fixed) • and low cut filter.



MX802A 179.00

Behringer MX1602A

Behringer's MX1602A has 4 mono channels/4 stereo channels (all with faders) • 2 aux sends (1 pre/post switching) • 3 band EQ (fixed) • and solo in place/PFL.



MX1602A 119.00

Behringer MX1804X

Behringer's MX1804X has 6 mono, 4 stereo channels, 2+2 buss • 2 aux sends • 7-band graphic EQ • 3-band EQ (swept mid) mono channels /4-band stereo channels • and internal 24-bit DSP.



MX1804X \$499.00

Behringer MX2642

Behringer's MX2642A has 8 mono channels/4 stereo channels (all with faders) • 3-band EQ with mid sweep on mono channels • 4 assignable buss outs • and 6 aux sends/4 stereo returns. 8U



MX2642A \$499.00

Behringer MX9000



Behringer's MX9000 is a 24 channel, inline, 8 buss recording console • 24 tape monitor inputs with dedicated EQ & mutes • expander port for linking consoles • comprehensive monitoring facilities • and integrated meterbridge.

MX9000 \$2,599.00

Fostex VM04

4-Channel Digital Mixer



Fostex's VM04 is a 4 channel digital mixer with DSP effects. With 24-bit data processing the 4 input mixer (2 mic/line, 2 line) features level, pan, 2-band shelving EQ, internal effects send: pre & post effect type and parameter for each effect on each channel, with all settings being automated by means of the 20-mix scene memory. Both stereo analog and digital (S/P-DIF) outputs are available with a headphone output for monitoring. Mix and effects information is clearly displayed on the custom designed LCD display.



VM04 Digital Mini Mixer \$299.00

Fostex VM200

Digital Recording Mixing Console



Fostex's VM200 is a 20x8 direct buss plus 8 flexible buss digital mixer. It offers 32-bit processing and mixing, digital effects with incredibly high audio specs. Each channel has a dedicated rotary pan control while a channel's entire EQ can be accessed via 12 rotary controls with interactive graphic on-screen representation of EQ patterns. Features such as analog input level, ADAT in, effects return, effect send, aux send, etc. can all be recalled on 60mm moving faders. The VM200 can be totally controlled via MIDI, while the Auto indicate facility and self illuminating switches allow you to see the whole mixer at a glance... and the 100 mix scene memories and 50 EQ preset library mean that a great mix is just a button push away.



VM200 Digital Recording Mixing Console ... \$1,499.00

Graham Patten DMIX-41

4-Channel Digital Audio Mixer



The Graham Patten DMIX-41 combines up to four AES inputs

transparently and cost-effectively onto a single AES output. Inputs may be individually enabled or disabled remotely. When equipped with optional sample rate converters, the DMIX-41 can combine AES inputs with different sample rates. Use the DMIX-41 to preselect and/or combine sources to expand the input capability of any digital audio console or recorder.



Back

DMIX-41/A0 \$899.00
 DMIX-41/A2 ... with 2 SRC inputs \$1,099.00
 DMIX-41/A4 ... with 4 SRC inputs \$1,299.00

Also available with BNC connectors - substitute A with B; ie. DMIX-41/B0



1-352-622-7700

Visit Us @ www.bgsfl.com

World Radio History

Mackie 1604VLZ PRO

Mackie 1604VLZ PRO features include: ultra-low noise • 16 XDR™ extended dynamic range premium studio grade mic preamps with: ultra wide 0-60dB gain range, 130dB dynamic range, +22dBu line input handling and distortion under 0.0007% (20Hz-20kHz) • advanced DC pulse transformer RF rejection • 4 subgroups with left & right assigns and direct outs • 16 high headroom line inputs, 16 channel inserts • 60mm logarithmic taper faders • constant loudness pan controls • 6 aux sends per channel with 15dB gain above unity • aux 1 & 2 pre/post • aux send 1-2 master section with level controls, solo switches and



solo LEDs • level, pan; -20, solo & OL LEDs on each channel • RUDE solo light doubles as a mini tanning booth • 4 stereo aux returns, 8 direct outs • 3-band active EQ with sweepable midrange • 18dB/oct. 75Hz low cut filter on each channel • control room/phones multi-input source matrix • RCA tape I/Os • tape input level control and tape-to-main mix switch • balanced 1/4" I/Os (except inserts) • switchable phantom power for condenser mics • 5 physical configurations via rotating I/O pod • built-in power supply and 11U rack mount included.

1604VLZ PRO
16x4x2 • 16 XDR Mic Preamps \$1,249.00



Mackie 1642VLZ PRO

The new Mackie 1642-VLZ PRO is perfect for those that need a little more flexibility than the 1202/1402 but does not need as much as the 1604-VLZ PRO. Feature set includes ten XDR™ preamps • Mackie 3-band EQ with sweepable midrange on mono channels (4-band EQ on stereo channels) • four aux sends • 60mm log-taper faders • control room and phones multi-input source matrix • and expanded control room section.



1642-VLZ PRO \$999.00

Broadcast Tools Console Controller IIA



Broadcast Tools' Console Controller IIA provides the solution for interfacing non-broadcast consoles or digital workstations to the broadcast studio. It offers three channels of insert switching to turn on or off console input channels or other source equipment as indicated by a bright red LED on each switch. Additionally, the CCIIA offers monitor amplifier mute control, front panel monitor level control and

the ability to switch between internal or external (program/off-air) monitor input sources. Audio connectors are TRS 1/4" jacks; front panel switches are SPST momentary with LED, and includes a DB-9 male remote control. Cascade multiple CCIIAs for more than three channel inserts.



CCIIA \$299.00

Mackie 1202-VLZ PRO and 1402-VLZ PRO

The Mackie 1202-VLZ PRO and 1402-VLZ PRO features include: ultra-low noise • XDR™ extended dynamic range premium studio grade mic preamps with: ultra wide 0-60dB gain range, 130dB dynamic range, +22dBu line input handling and distortion under 0.0007% (20Hz-20kHz) • advanced DC pulse transformer RF rejection • high headroom line inputs (1202 has 6/1402 has 8) • separate RCA-type tape/CD inputs and tape outputs • 2 aux sends with 15dB of extra gain above unity • constant loudness pan pots • PFL stereo in place solo on each channel • 2 stereo aux returns w/EFX to monitor • aux 1 master w/monitor/post assign • 3 band active EQ (80Hz, 2.5kHz, 12kHz) • 18dB/oct. 75Hz low cut filter eliminates stage rumble, wind noise, P-pops and low frequency recording studio room resonance • extra ALT 3-4 stereo buss for submixes, separate recording, monitor and "mix minus" feeds • control room/phones multi-input source matrix • 48V phantom power • and built-in power supply. The 1402-VLZ also includes AFL/PFL switching.



Mackie 1202-VLZ



Mackie 1402-VLZ

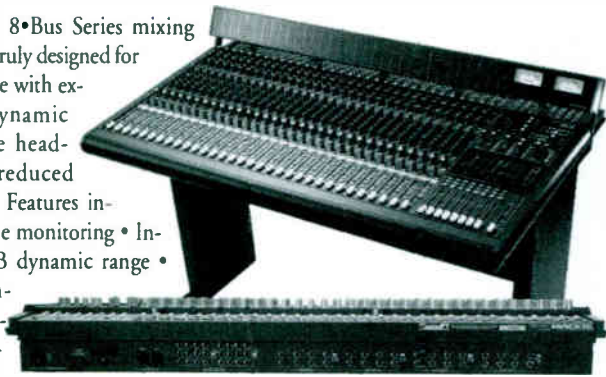
1202-VLZPRO 12x2x1 • 4 XDR Mic Preamps \$459.00
RM1202 7U rack mount for 1202-VLZ \$12.00
1402-VLZPRO 14x2x1 • 6 XDR Mic Preamps \$629.00
RM1402 8U rackmount for 1402-VLZ \$12.00

Mixers/Consoles • Production

Mackie 8•Bus Series Mixing Consoles

The Mackie 8•Bus Series mixing consoles are truly designed for the digital age with extended dynamic range, more headroom and reduced noise floor. Features include: In-line monitoring • Internal 116dB dynamic range •

Two completely assignable head-phone monitoring systems • Studio quality, discrete low noise, high headroom mic preamps on all channels (each providing +48V phantom power) • EQ includes true parametric HI-MID with separate band center and "Q" controls, swept LO-MID, shelving HF and LF plus 18dB/octave high-pass filter at 75Hz • second (MIX-B) monitor/AUX section w/pan, level and source buttons • 6 stereo, 6 assignable AUX returns • Assignable control room/studio functions • Built-in talk back system with microphone • Balanced XLR main L/R outputs.

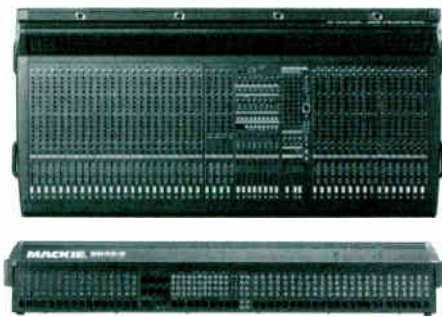


32•8	32x8x2	\$4,249.00
24•8	24x8x2	\$3,399.00
16•8	16x8x2	\$2,719.00
24•E	24-Ch. Expansion Console for 32•8 & 24•8	\$2,549.00

Meter Bridges feature ladder LED's for each input channel. The 32•8, 24•8 & 16•8 have VU meters for main outputs. The Bridge attaches to machined recesses in the side panels of the console and may be tilted at any angle from 0° to 90°

MB•32	\$899.00
MB•24	\$799.00
MB•16	\$699.00
MB•E	\$699.00

Mackie SR40•8 Sound Reinforcement Mixing Console

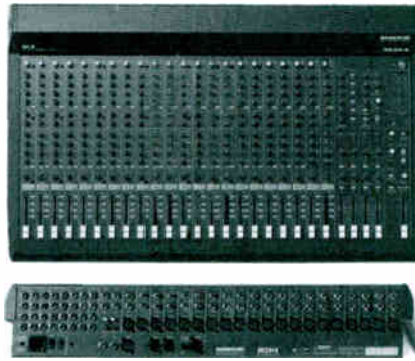


The Mackie SR40•8 is a large format sound reinforcement mixing console. Features include: center master section • built-in meter bridge • 8 subgroups • 4-band EQ with swept mids • UltraMute™ computerized system for group & snapshot muting • 12x4 matrix mixer w/full complement of controls • 8 aux sends • 4 stereo main aux

return channels • 4 additional "B" aux returns • left, right & center master faders • fader link for L/R master faders • PFL/AFL choice for inputs & outputs (global) • low cut filter with in/out switch (12dB/oct., variable 30-800Hz on mono chs.; 18dB/oct. fixed at 150Hz on stereo chs.) • ClearCom™ compatible communications interface • 400kHz tone oscillator & pink noise generator • and Mackie's famous mic preamps. Rear panel includes: channel inserts with separate send and return • balanced XLR outputs for I-R & C. masters, plus 8 subgroups and 4 matrices • submix inserts with separate send and return.

SR40•8	Large-format Sound Reinforcement Mixing Console	\$9,995.00
SR56•8	56 Channel version of the SR40• with identical feature set ..	\$13,595.00

Mackie 24•4-VLZ PRO 24x4x2x1 Audio Mixer



The Mackie SR24•4 is a 24 channel sound reinforcement console. Features include: 20 mic/line channels with 3-band EQ (sweepable mid) and 2 stereo/line channels (4-band fixed EQ) • 4 submix buses • Mackie's high headroom/low noise mic preamps on all mono channels • 6 aux sends • 4 stereo aux returns • PFL/AFL (SIP), signal present and overload LEDs on every channel • low cut filter on mono channels (75Hz @ 18dB/octave) •

double bussed sub outs for digital multitrack recording • very low impedance (VLZ) architecture for super low noise operation • balanced inputs and outputs (except RCA's, phones and inserts) • and 3 Year Warranty.

24•4-VLZ PRO	24x4x2x1 Audio Mixer	\$1,599.00
32•4-VLZ PRO	32x4x2x1 Audio Mixer	\$1,999.00

Mackie LM3204 32x2 Line Mixer w/2 Mic Preamps

The Mackie LM3204 Audio Mixer is a 32x2 line mixer with 2 mic preamps. Features include: 32 balanced/unbalanced line inputs (16 stereo channels) • 4 aux sends/ch. • 4 stereo/8 mono aux returns • 3-band EQ on all channels (12kHz, 2.5kHz and 80Hz) • -20dBu signal present and overload LEDs on all channels • mute/alt 3-4 function routes signals to an alternate stereo buss • control room level and output functions • sealed potentiometer • built-in power supply • and 3 Year Limited Warranty.



LM3204
Front &
Back

LM3204	32x2 Line Mixer w/2 Mic Preamps	\$999.00
LM-3204E	16 Stereo Channel Line Mixer Expander	\$899.00



Broadcasters General Store

2840 S. E. 52nd Street
Ocala, Florida 34480-7500

1-352-622-7700

Mixers/Consoles • Production

Mackie Digital 8•Bus



The Mackie Digital 8•Bus is a 56-input, 72-channel, fully automated digital mixer. Features include: Dynamic and Scene (Snapshot) automation • motorized faders • 12 aux sends per channel • dedicated EQ, compressor and gate on 48 channels • Reverb, delay and chorus effects • Apogee Electronics' UV22 super CD encoding process • Automated surround sound mixing

matrix for 5.1 and 7.1 surround formats, • Built in meter bridge • 24-bit (128x oversampling) A/D and D/A converters • 32-bit internal processing • Built in card cage for easy to install expansion cards • AES/EBU and S/PDIF Digital Master I/O • Connections for Ethernet, and optional SVGA monitor • Tape transport controls • and more. What's new with 3.0 • Third-party plug-ins via the Mackie UFX card • Enhanced dynamics • Input keying and EQ filter • Soft knee compression toggle • Linear and exponential option • 48-channel overview screen • 999 levels of Un-Do • 24-bit Alt I/O • Advanced Mix Editor features including • New view-sizing arrows • Auto-punch • Auto-loop SMPTE time code boxes • Loop-in/loop-out, Punch In, Punch Out and Locate markers in the time bar • Contextual right mouse click for track parameters and time bars • Event Automation Track • Enhanced Surround Sound mixing environment with • Depth of Center Control • Surround LFE Gain Control for each channel • Surround-corrected bus/track assignment • Surround Front-to-



Rear Pan Control via control surface or MIDI • Surround GUI update - new 72-channel overview • Triumphant Return of the Desktop - drag and drop file management between File windows • Enhanced, flexibly MIDI I/O mapping for all channel strip parameters and/or effects modules • Assignable MIDI commands on transport (REW, FF, STOP, PLAY, REC) and on the D8B master control section • Insert and patch point feature on channels - source either plug-ins, 8 aux sends, 8 buses or 72 channels (pre-DSP only) • 24-bit plug-in inserts across Main L/R buses • Time offset (delay) on each channels 1-48 with 255 samples • Cross-Patching assigns channel strip in various orders • Non-destructive Ungrouping • Optional fader control of level to tape - direct out signal follows the source fader channel • Multiple direct outs per channel • MMC Auto Punch mode • Snapshot Library • Paste Repeat for automation level looping and building rock-solid grooves • Pre/Post assignment of each aux send on each channel • Improved BBT resolution and clocking accuracy • Virtual group control extended to buses and MIDI faders



D8B™	Digital 8•Bus	\$9,999.00
AIO•8	Analog I/O Card	\$399.00
DIO•8	Digital 24-bit I/O Card	\$450.00
OPT•8	Digital I/O Card	\$99.00
PDI•8	8-Channel AES/EBU Digital I/O Card	\$399.00
MFX	Digital Effects Processing Card w/ I/VL Vocal Studio Software	\$499.00
UFX	Universal Effects Processing Card for Mackie Digital Mixers	\$499.00
Clock/I/O..	Word Clock I/O Card for Mackie Digital Mixers	\$399.00

Roland VM-3100Pro & VM-3100 V-Mixing Stations Digital Mixer



The Roland VM-3100Pro and VM-3100 V-Mixing Stations offer professional digital mixing capabilities and superb 24-bit sound quality in compact and affordable desktop mixers. The VM-3100Pro is a full-featured 20-channel/8-buss digital mixer with two high quality onboard stereo effects processors derived from Roland's popular V-Studio workstations, as well as powerful Scene memory, MIDI mixer capabilities and an optional external ADAT/Tascam interface box. The straightforward VM-3100, on the other hand, gives users 12 channels of 24-bit digital mixing with

an onboard stereo effects processor and full MIDI mixer capabilities at an incredibly affordable price. VM-3100Pro features: High-quality compact digital mixer with 20-channel/8-buss design and full 24-bit resolution • Two stereo multi-effects processors offer compression, reverb, chorus, delay, guitar/vocal/keyboard multi-effects, COSM Mic Simulation and Speaker Modeling • Scene memory enables storing and recalling complex mixer settings and routings, including all effects parameters • Full MIDI compatibility with external sequencer, including switching Scenes, mixer and fader adjustments, and MMC start/stop • Onboard 136 x 32 dot backlit graphic LCD includes helpful icons: self-luminous buttons allow speedy operation • Optional DIF-AT Interface Box adds ADAT/Tascam communication compatibility.

VM-3100 features: Affordable 12-channel/8-buss tabletop digital mixer • Onboard stereo effects processor with compression, reverb, chorus, delay, and guitar/keyboard/vocal multi-effects • Perfect low-cost mixer for combining with MIDI musical instruments and sequencers or for adding inputs to Roland VS workstation. Step Up to Powerful Digital Mixing Today.

VM3100Pro	Digital Mixer w/speaker modeling and digital I/O	\$1,295.00
VM3100	Digital Mixer	\$995.00

Panasonic WR-DA7 Digital Mixing Console



The Panasonic WR-DA7's 32 inputs with 8 buses (with moving faders) give you the flexibility you need, and 24-bit A/D-D/A converters (over 110dB dynamic range) make sure it sounds great. It has a full 4-band parametric EQ and dynamics located on every channel. Features include: a combination of 32 analog and digital inputs plus 6 aux return inputs for a total of 38 inputs, plus 8 buses • 21 moving faders • MIDI machine control (MMC) • RS-422/485 interface • automation software for Windows and Mac • S M P T E

timecode option • 50-scene memory • 5.1 surround sound mixing • and you can even operate 2 units in tandem with full bi-directional control. 51lbs.



WR-DA7	Digital Mixing Console	\$5,495.00
WR-MTBR	Meter Bridge, 26 assignable LED bargraph, switchable VU or PPM, 10lbs.	\$1,070.00
PC-FCDA7	Roadcase, ATA type w/casters & card/cable area, 45lbs.	\$995.00
WR-ADAT	ADAT Digital I/O card	\$330.00
WR-TDIF	TDIF Digital I/O card	\$380.00
WR-AESS	AES/EBU/& S/PDIF I/O card, (Req'd DA/DB-AES 3M cable) \$195	\$390.00
WR-ADDA	8 Channel AD/DA card	\$875.00
WR-TNDM	Tandem Connection card, (Req'd DA/DB-DB 1M cable) \$160	\$580.00
WR-SMPT	SMPTE & V Sync card	\$530.00
WR-RC/M	Remote Control Software (Mac), (Req'd DA/DB-DIN 3M cable) \$60	\$499.00
WR-RC/W	Remote Control Software (Win)	\$499.00

Samson PL 2404

The Samson PL 2404 rackmount mixer has 24 balanced line inputs (12 stereo). It features: 4-buss mixer with 56mm faders on buss outs • 3-bands of EQ, 4 auxiliary sends on each channel • 4 stereo effects returns with assign switch • pre-fader listen • and more.



PL2404 \$599.99

Samson PL 1602

The Samson PL 1602 rackmount mixer has 16 balanced line inputs (8 stereo). It features: 2 XLR/mic inputs (balanced) • 2-band EQ on each channel • 2 aux sends with 2 stereo effects returns • and master L/R faders for balanced output.



PL1602 \$319.99

Samson Mixpad 9

The Samson Mixpad 9 features 3 balanced mono mic/line inputs and 3 stereo inputs (for a total of 9); 2 aux sends per channel and 2 stereo effects returns to the left and right main outputs. Independent 2-band EQ ensures precise tonal control while mic input trims let the Mixpad be used with a variety of microphones. It also features constant level pan controls on the mono channels and balance controls on the stereo channels. Peak LEDs on the left and right main outputs and balanced stereo outs complete this versatile mixer. Only 9" x 9.6" x 2-1/2" at 3.38 lbs.



Mixpad 9 \$269.99

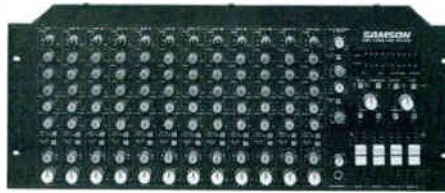
Samson Mixpad 12

The Samson Mixpad 12 is a great small but flexible 12 channel audio mixer. Features include: 6 balanced mono mic/line channels and 3 stereo input channels (12 total) • independent CD/tape input with signal routed via last stereo channel • 2 aux sends per channel (one pre-fader, one post) • 2 stereo effects returns with front panel level controls • independent 2-band EQ on each channel with 15dB of boost or cut • constant level pan control on each mono channel • left/right balance control on each stereo channel • adjustable mic input trims • front panel stereo headphone output for private monitoring • peak LEDs on left and right main outputs • phantom powered XLR mic input connectors • high headroom design with +27dBu output for superior audio quality • and balanced stereo output.



Mixpad 12 \$369.99

Samson MPL1204 4-Buss Mixer

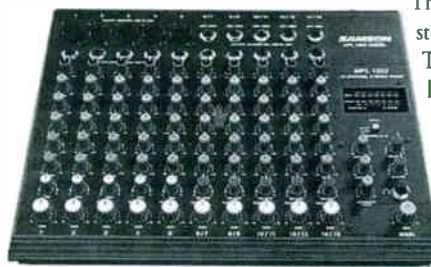


Samson's MPL1204 is a true 4-buss mixer, that features independent faders for each buss and stereo main and control room volume controls to give users compete flexibility in monitoring and routing.

Other features include: 3-band EQ on each channel • balanced outputs • 2 aux sends per channel and 2 buss-assignable stereo effects returns • 12 balanced XLR inputs • switchable PFL/AFL (pre and post fader listen) monitoring and mute-buss 3/4 switches on each channel for more mixing control • 56mm faders on all 4 buss outputs • mic/line trims on each channel • global 48V phantom power capability • front panel headphone output • 10-segment LED VU meters • main and control room level controls • insert points on all channels • assignable sub groups for main and control room outputs. 5U & 15.9lbs.

MPL1204 \$599.99

Samson MPL 1502 Stereo Mixing Console



The Samson MPL 1502 is a 15 input stereo mixing console. It has 5 1/4" TRS stereo and 5 mono XLR mic/line inputs, 3-band EQ on each channel, 2 aux sends and returns, and a built-in headphone amp. A flexible metering system allows the user to monitor levels of the stereo out, phantom power and on/off status, while peak input LEDs for each channel indicate signal overload.

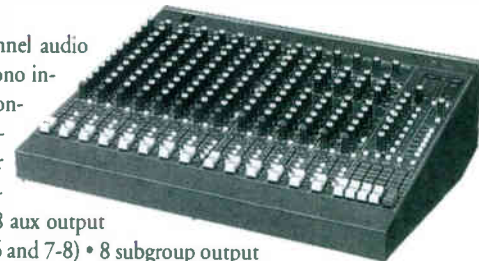
MPL1502 \$399.99

Rack Mount Kit for MPL1502 \$29.99

1-352-622-7700

Sony SRP-V110 12-Channel Mixer

The Sony SRP-V110 12-channel audio mixer features include: 10 mono input (1-8 input has tape input connector of pin jack type) • monitor function (using aux 1-2) for 1-8 mono input • 4 stereo input and 4 stereo sub input • 8 aux output (switchable knobs between 5-6 and 7-8) • 8 subgroup output (4 stereo faders are equipped for master) and L/R master output • and 3-band EQ for mono and stereo input. 9U & 19.3lbs.



SRP-V110 12 Channel Audio Mixer \$2,180.00

MU-110BK Optional rackmount adapter \$100.00

Mixers/Consoles • Production

Tascam TM-D4000A Digital Mixing Consoles

Tascam TM-D4000 features include: 4-band EQ on each channel • dynamics on each channel • 100mm motorized faders on 16 channels/2 stereo inputs/master out • cascade I/O for system expansion • surround sound panning via buss 1-6 • 24-bit AD/DA converters on analog I/Os • 24-bit D/A converters on stereo master outs and monitor outs • onboard stereo digital effects • MIDI in/out/thru • 320x240 large LCD display w/4 rotary encoders for parameter control • full machine control including jog/shuttle dial and record function switches • GUI and dynamic automation with external host computer (Windows only) (EQ, dynamics, and snapshot library).



TM-D4000A	Digital Mixer, 32x8x2	\$3,999.00
IF-AD4000	Additional 8 buss D-sub analog I/Os	\$599.00
IF-TD4000	TDIF-1 I/O card with DTRS remote connector	\$229.00
IF-LP4000	ADAT "lightpipe" I/O card with ADAT sync connector	\$229.00
IF-AE4000	AES/EBU card	\$399.00
MU-4000	Meter bridge	\$599.00
PW-4000CS	Cascade cable	\$99.00

Spirit Folio Notepad

The Spirit Folio Notepad achieves DAT quality audio as a result of its surface-mount design and use of components common to larger Spirit consoles. It's a versatile, portable mixer for both live and studio applications. Notepad offers the following features: 10 Inputs, (four mic/line balanced inputs, two unbalanced stereo inputs) • Mic preamps with 50dB of gain range • 2-Band EQ on every mono input • Post-fade aux send on every input • Dedicated stereo effects return • +48V Phantom power • Stereo inputs equipped with switchable RIAA preamps for turntables • 2-Track return for playback of masters • Separate mix and monitor outputs • Peak and VU metering • and headphone output .



Folio Notepad	\$299.95
Folio PowerPad	35 watts of power per side \$399.95

Studio Technologies M770 & M750

Audio Mixers and IFB Controller



M770

The Studio Technologies M750 audio mixer was designed for use in ENG, SNG, and specialized broadcast applications. Features include 4 mic/line inputs, 2 stereo line inputs, and 2 stereo output busses. The setup section provides voice identification storage and playback, along with a precision, computer-controlled tone generator. The extensive monitor section features analog VU-type meters. The M750 has all operator controls located on the front panel. Powered by 120V, 50/60Hz, optional 220/240V. 2U



M750

M750	\$2,495.00
M770	Audio Mixer and IFB Controller, 2U \$2,895.00

Yamaha O3D Automated Digital Mixer

The Yamaha O3D is a self-contained, 26 input/18-output fully automated digital mixing console. The O3D features an intuitive user interface, ease of operation and a long list of essential professional engineer's tools including: fast 32-bit internal digital audio processing • versatile analog and digital I/O configuration with 20-bit A/D-D/As • 32-bit onboard multi-effects processors with freeze (sampling) and guitar amp simulation effects • motorized fader, fader and mute grouping • surround sound mixing • 50-scene snapshot memories • onboard automation • MIDI remote capabilities • plus convenient cascading options which make it the ideal companion for an O2R or another O3D.



O3D	Digital Mixing Console	\$3,699.00
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O3D options listed w/O2R pricing, other options available, please call for pricing.

Hotlinks to Vendors @



www.bgsfl.com
www.broadcastdealer.com

Mixers/Consoles • Production

Yamaha PM3500

The Yamaha PM3500 Front of House console is available with 24, 32, 40 or 48 inputs; and PM3500 monitor console with 44 or 52 inputs.

They are closely related, sharing the same body and virtually all of the same features. The only difference is their inputs.

The PM3500's modules are switch assignable to the eight mix busses and the stereo buss, with eight auxiliary sends individually pre/post switchable.

In addition to these modules, the console includes four separate stereo input modules that can also be used as auxiliary returns. The PM3500 has digitally controlled scene memories. The input channels, auxiliary returns and output buss ON/OFF functions are electronically controlled via a central CPU. The consoles allow up to 128 patches or "scenes" to be stored in memory and recalled via a 10-key pad on the front panel or an external MIDI device. Any of the 128 memories can be assigned to a group of eight "direct recall" switches to make them especially easy to access. External MIDI control can be used to individually turn input and output channels on or off as required.

PM3500-24 28 Ch (24 mono, 4 stereo) 8 group+st.,
8 aux, 128 mute scenes, & 8 VCA groups \$37,176.00

PM3500-32 36 Ch (32 mono, 4 stereo) 8 group+st.,
8 aux, 128 mute scenes, & 8 VCA groups, 4 band
parametric EQ, 4 stereo matrix & 4 mono matrix \$43,176.00

PM3500-40 44 Ch (40 mono, 4 stereo) 8 group+st.,
8 aux, 128 mute scenes, & 8 VCA groups, 4 band
parametric EQ, 4 stereo matrix & 4 mono matrix \$49,235.00

PM3500-48 52 Ch (48 mono, 4 stereo) 8 group+st.,
8 aux, 128 mute scenes, & 8 VCA groups, 4 band
parametric EQ, 4 stereo matrix & 4 mono matrix \$55,295.00

Please call us for a complete list of options and pricing!



Yamaha MX12/4

The Yamaha MX12/4 12 input/4 buss mixing console features: 8 mono channels with balanced

XLR type microphone inputs and balanced/unbalanced TRS phone jack line inputs • 2 stereo channels with unbalanced L/mono and R phone jack inputs • 3-band equalization on all 12 inputs • internal digital signal processor provides high quality reverb effects • and 7-band graphic equalizer on the stereo outputs.

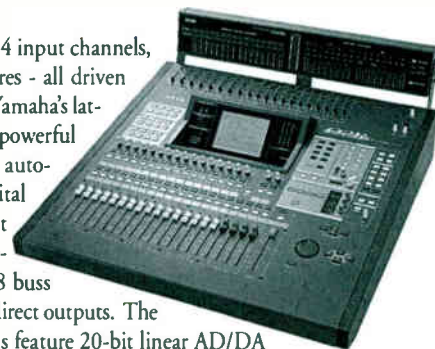
Yamaha MX12/4 ... 12 input, 4 buss mixer with DSP \$599.95



Yamaha O2R Digital 8-buss Recording Console

The Yamaha O2R has a total of 44 input channels, plus a full complement of features - all driven by RISC technology CPUs and Yamaha's latest 32-bit DSP chip. It brings powerful system control and full dynamic automation to the heart of your digital recording studio. It has 40 input channels and two full-featured stereo internal returns. There are 8 bus outputs and 8 aux sends plus 16 direct outputs. The 24 built-in analog input channels feature 20-bit linear AD/DA conversion with oversampling. Thousands of parameters can be stored in a scene memory "snapshot" to be recalled in an instant. The O2R has a 4-band fully parametric EQ and two internal effects units. EQ can be applied to each input channel and to the stereo output. The open architecture design allows you to insert up to four optional 8-track digital I/O cards (for a maximum of 32-tracks). With these

cards you can select from any of the currently used formats - ADAT®, Tascam TDIF-1, YAMAHA, or AES/EBU.



O2R	Digital 8-buss Recording Console	\$8,899.00
CD8AT	O2R/O3D, Interface card, ADAT digital format	\$299.00
CD8TDII	O2R/O3D, Interface card, Tascam digital format	\$299.00
CD8AE	O2R, Interface card, AES/EBU digital format	\$359.00
CD8AES	O2R/O3D, Interface card, AES/EBU digital format	\$359.00
CD8CS	O2R/O3D, Interface card kit, allows multiple O2R consoles to be cascaded for more inputs	\$999.00
CD8AD	Interface card kit: (2 cards & 1 cable) allows connection of O2R to Analog multitrack recorders	\$799.00
CD8ADS	O2R/O3D, Interface card, single slot 8-ch analog input card	\$399.00
CD8Y	O2R/O3D, Interface card, YAMAHA digital format	\$299.00
MB02	O2R, Meter Bridge and connection cable	\$1,299.00
ME4M	O2R, Memory upgrade: 1 Mb/increases auto mix memory (max: 2)	\$499.00
W02SP	O2R, Wood side panel (attach with supplied screws)	\$199.00

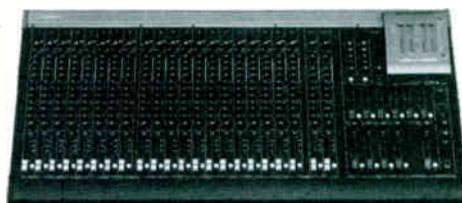
Yamaha GF Series

The new Yamaha GF Series mixing consoles feature: 12 busses- 6 aux + 4 group + stereo • 3-band EQ on inputs with sweepable mids • inserts on all mono inputs • 4 large, 12 segment LED level meters • and is lightweight, durable and compact in design.

GF12/12 12 inputs, 6 aux, 4 buss & stereo mixing console, 30.8lbs. \$999.95

GF16/12 16 inputs, 6 aux, 4 buss & stereo mixing console, 35.2lbs. .. \$1,199.95

GF24/12 24 inputs, 6 aux, 4 buss & stereo mixing console, 44lbs. \$1,599.95



ATI MXS100&MX200

Stereo Field Mixer

The ATI MXS100 is a full-featured stereo field mixer with three XLR switchable microphone/line low noise balanced inputs, +20Vdc regulated phantom power (48Vdc available as an option), pan pots, switched low cut filters, slate microphone, stereo tape in and tape out jacks (new), and a test tone oscillator driving stereo, metered, low distortion servo XLR balanced switchable



mic/line outputs (new) with switchable peak limiting, and a stereo program/cue headphone output. Options include carry case, gel cell battery pack, power supply and rackmount adaptors.

ATI MX200/MX200C Studio Stereo Mixers feature: three XLR switchable mic/line low noise inputs with pan pots and phantom power • balanced line level stereo outputs • independent headphone monitoring • bright LED bargraph VU meters. Options include input expanders, power supply and rack or desk top mount adaptors.



- MXS100 Field mixer, stereo out, three panned mic/line inputs \$949.00
- MX200 Studio mixer, stereo line out, 3 panned mic/line inputs \$769.00
- MX200C Same as MX200 but includes a peak limiter \$789.00
- XPS100 Expander, Stereo buss out, 4 panned mic inputs \$399.00
- XPS200 Expander, Stereo buss out, 2 stereo line level inputs \$359.00
- WA100-1 Wall mount power supply (UL), 24Vdc @ .4amp, 115Vac/60Hz ... \$15.00
- ABAG-1 Carry case, with PROK-1, houses PPA-1 or DCA100-1 \$125.00
- PPA-1 Rechargeable 4 hour battery pack, includes charger \$199.00
- DCA100-1 .. DC/DC assembly for operation with DC inputs from 10-32Vdc. \$139.00
- PROK-1 Protection kit, has side plates to protect front panel controls and rear connectors from impact \$75.00
- BBU100-1 ... Battery pack houses four 9V alkaline batteries for remote operation \$95.00

ATI PB2X8 Press Box Distribution System

The ATI PB2X8 Press Box Microphone Distribution Amplifier eliminates the usual press conference microphone clutter with just a single or back-up pair of microphones.

Feed each of eight transformer isolated channels from either input or both mic/line inputs mixed. Drive a high level XLR and medium or low level TRS line simultaneously from each output. Use as a 2x8 DA, stereo 1x4 or two input mixer. Studio grade performance, field proven ruggedness.



- PB2X8 Press Box Distribution System \$1,299.00

ATI MX101 &MX100

Mono Field Mixer

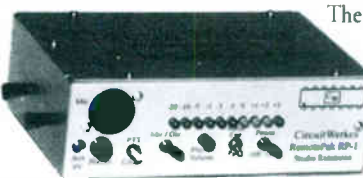
The ATI MX101 is a mono field or studio, three channel, switchable microphone/line mixer with low noise balanced inputs, +20Vdc regulated phantom power (48Vdc available as an option), switched low cut filters, slate microphone, and a test tone oscillator driving a bright LED VU meter and a low distortion servo balanced selectable line/mic mono output with switchable peak limiting. An independent adjustable headphone output monitors program or cue and program.



The MX100 and MX100C are basic studio or field three channel, selectable microphone/line mono mixers with low noise balanced inputs, phantom power, an adjustable headphone program output and a metered low distortion selectable balanced line/mic output. The MX100C also includes a switchable peak limiter. Expand the input capability of the MX101 or MX100 with one or several XP100 expanders. Each XP100 adds four switchable microphone/line inputs and includes all DC and audio interconnecting cables for interfacing with the mixer.

- MX101 Mono Mixer, three mic/line inputs \$599.00
 - MX100 Studio Mixer, Mono line output, three mic/line inputs \$429.00
 - MX100C Same as MX100 w/peak limiter \$479.00
 - XP100 Four input switchable mono mic/line expander \$319.00
- Options- WA100-1, ABAG-1, PPA100-1, DCA100-1, PROK-1 & BBU100-1 see MXS100.

CircuitWerkes RP-1 Mic & Headphone Amp



The CircuitWerkes RP-1 combines a single channel mic amp with a headphone amp that's ideal for locker room reports and other extended remote broadcasts. The RP-1's features include: headphone amp with variable level, balanced input and adjustable sidetone for monitoring IFB

and your program audio • active, balanced mic preamp and auxiliary unbalanced line inputs with separate controls • built-in 1kHz calibration oscillator • LED metering switchable to program output or cue input • standard XLR mic and program output connector, 1/4" stereo headphone/cue jack and 3.5mm auxiliary jack • battery powered.

- RP-1 \$299.00

Hotlinks to Vendors



www.bgsfl.com
www.broadcastdealer.com

Mixers/Consoles • Remote Mixers

Comrex Cue System IFB Transmitter & Receiver

The Comrex Cue System relays both program and instructions from a transmitter (installed in a van, studio, press box, stadium, etc.) to pocket receivers. The CTA Cue Transmitter is a 1 watt rack mount transmitter that accepts two audio sources (program & cue). The cue automatically overrides the program, with program remaining audible at a lower level. The LPQRA receiver has 6kHz audio response for accurate program monitoring, ceramic filters for interference-free operation and high level output for intelligibility in noisy environments.

CTA	IFB Transmitter	\$1,350.00
LPQRA	IFB Receiver	\$625.00
LPQRA-C	2nd crystal for LPQRA	\$50.00

Electro-Voice ELX-1B

4-Channel Rackmount Mixer

The Electro-Voice ELX-1B features four balanced mic/line inputs, phantom power, switchable output limiter, low cut filters, and is powered by AC or three 9V batteries. Headphone output has a separate power amp and level control and will drive any type of headphones or a small speaker. Level setting is easy with the built-in tone oscillator. 1U

ELX-1B	4 channel rackmount broadcast mixer	\$770.00
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JK Audio RemoteMix C+

Phone Line Hybrid/Mixer

The JK Audio RemoteMix C+ is a portable phone line hybrid/mixer for remote broadcast or line interviews. It works with conventional phone lines or your cellular telephone using a fax or modem adapter (available from your cellular dealer). The RemoteMix C+ has balanced XLR output and unbalanced RCA line I/O's, adjustable null feature, and two balanced XLR microphone inputs and two headphone jacks. It runs 36 hours on two 9V batteries. An AC adapter is included.

RemoteMix C+	\$595.00
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JK Audio RemoteMix 3

Hybrid Micer & Universal Handset Interface

The JK Audio RemoteMix 3 is a combined phone line hybrid mixer and universal handset interface in one. It can be used on analog phone lines with the RJ-11 jack, or use it on digital PBX or multi-line phones by plugging the coily cord into the handset port. Features include: two mic inputs • tape in and out • two headphone jacks • VU meter • internal speaker and microphone for quick setup • XLR male out for IFB feed • battery and AC operation.

RemoteMix 3	\$895.00
RemoteMix 3M	\$895.00

JK Audio RemoteMix 3x4

Multi-Line Hybrid Mixer

The JK Audio RemoteMix 3x4 Multi-Line Hybrid Mixer gives you 3 mic/line inputs, 3 headphone outputs, and the ability to connect and hold 4 telephone lines. Broadcast down one line while you listen to a second line, or use the clean mixer output for your CODEC or satellite feed.

RemoteMix 3x4	\$1,795.00
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Radio Design Labs RU-MX5 Mic/Line Mixer

Radio Design Labs' RU-MX5 is the ideal choice in many applications where a combination of mic and/or line level signals need to be mixed with the ability for additional expansion. Four of the RU-MX5 inputs can accept either mic or line inputs. The fifth input is for line level sources. Mic inputs are designed for low-impedance balanced microphones, although high-impedance unbalanced mics can be connected as well. A rear panel jumper can selectively connect an internally provided 24Vdc phantom voltage to any or all of the mic inputs. See a more complete listing of RDL products on pages 50 & 51.

RU-MX5	\$263.00
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Broadcasters General Store

1-352-622-7700



Mixers/Consoles • Remote Mixers

Marti Cellcast RBS-400

Cellular Remote Broadcast Studio



The Marti Cellcast RBS-400 remote broadcasting studio eliminates line-of-sight requirements, phone line access, and antenna problems while reporting from the scene because the Cellcast is CELLULAR and battery operated—just turn it on and go. Features include: 3 power options: AC, battery or 12V (cigarette lighter) adapter • 2 line, 16 segment back-lit LCD display • 3 watt analog cellular transceiver • RJ11C-6 pin land line connector • 4 channel mixer, program or cue, mic or line selectable • software selectable single line encoder (compatible with any major single line decoder) for improved audio frequency response • 600Ω output • low battery indicator (audible alarm can only be heard by the operator) • lock function for all audio settings (software security code) • pulse or tone dial • pre-programmable cellular telephone number and functions • broadcast timer (count up or down) • and carry case. 5.5"Hx13.5"Wx8.5"D & 8lbs.



- RBS-400 \$2,950.00
- RD Rubber Duckie rt. angle antenna option (no longer standard)
Cellcast supplied w/540-129 magnetic mount antenna \$45.00
- YC-870 Cellcast Yagi antenna with tripod and bag \$480.00

Marti GX-500 Remote Mixer

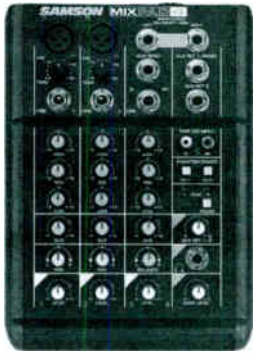


The Marti GX-500 remote mixer, has a new look. It has improvements in design to make it easier to operate and service. Marti added an analog cellphone adapter option. The adapters are "model specific" so you will need the model of the phone you have before you can order. Other features

- include: 4 mic channels and 2 aux inputs • 4 headphone jacks • peak limiter • squelch/mute switch • tone/pulse dialing and electronic ringer • rechargeable batteries for up to 10 hours use • second phone line capability • external AC supply • and plastic carrying case. 3lbs.
- GX-500 Remote Mixer \$1,295.00

Samson MixPad4 4-Channel Mixer

The Samson MixPad4 ultra-compact 4 channel mixer features: 2 mic/line inputs and 1 stereo input • battery operation, 3 - 9V, and AC power supply • carry strap • 1 aux send, pre-fader • 1 stereo effects return • independent 3 band EQ on each channel with up to 15dB of boost or cut • adjustable mic input trims • peak overload LEDs on left and right main output • constant level pan controls (mono channels) and balance control (stereo channel) • balanced stereo output • switchable phantom powered XLR mic input connectors • and 12 hour battery life. 1.85lbs.



- MixPad4 \$239.99

Shure FP42 4-Channel Stereo Portable Mixer

The Shure FP42 has all the features and ruggedness of the M267 plus full stereo capability which makes it perfect for stereo mixdown in editing suites. All four inputs are transformer-balanced mic/line, with two stereo outputs. The FP42 has pull-pot mic cueing on all inputs for channel previewing • switchable limiter • dual VU meters • mix buss linking • tone oscillator • phantom power • battery (3-9V) or 120/230Vac power.



- FP42 \$1,264.00
- A16R Rack Mount \$35.70

Shure FP33 Portable Stereo Mixer

Shure's FP33 is a 3 input, 2 output, portable stereo mixer specifically designed for remote audio recording. Features include: high precision-sealed rotary potentiometers • low self-noise and wide dynamic range (over 100dB) • LED indicators of input levels, output peaks, limiter action, and low battery • pop-up pan pots • link switch to couple inputs 2 and 3 into stereo pair • mix buss to connect an additional FP33 or FP32A • up to eight hours of operation on 2 - 9V alkaline batteries, or power with 12 to 30Vdc power supply (PS20/PS20E) • 12 and 48V phantom power.



- FP 33 \$1,830.90

Shure FP410 Portable Automatic Mixer



The Shure FP410 is a portable mixer that automatically keeps unused mics turned down and will only

allow one mic to be activated for each source. When someone speaks the Noise Adaptive Threshold activates within 4 milliseconds for speech, not room noise. When no one is speaking, the last mic is kept on to assure a consistent background ambience, until a new one is activated. The FP410 can control multiple wireless mics, work in the effects loop of a multi-channel console and switch to a redundant mic if the primary fails. Up to 25 FP410s can be linked for even greater versatility. The FP410 has four inputs and two outputs, all transformer balanced, mic or line switchable. Other features include: 48V phantom power, tape output jack, low cut filters, 1kHz tone oscillator, adjustable peak limiter with LED indicator, switchable peak VU meter, 1/4" and mini headphone jacks and a monitor in jack to connect an external source to the headphone amp. Powered with two 9V batteries or 120/230 Vac. 1U

- FP410, rack mount included \$1,683.00

Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com

Mixers/Consoles • Remote Mixers

Shure M367 6-Input Portable Mixer

Shure M367 is the closest replacement of the M267. Features include: 25dB quieter circuitry than the M267 • 6 balanced mic/line inputs and two isolated outputs • 12 and 48V phantom power • input clipping LEDs and output peak/limiter LED • 2 position mix buss • adjustable limiter threshold • headphone monitor circuit • battery (2- 9V) or 120/230Vac power with detachable power cord.



M367 6-Input Portable Mixer w/Limiter/VU Meter \$810.90

Whirlwind PressPower 2 Active Press Box



The new Whirlwind PressPower 2 active press box features 2 mic/line inputs with individual gain controls and 16 transformer isolated outputs that are individually switchable for mic or line level operation. The PressPower 2 includes a 20-segment LED level meter, an internal test tone generator, a built-in headphone monitor amp with volume control, high-pass filters, and phantom power. The input stage provides clean audio even in high-RF environments. The unit can be powered by 115/230 VAC - 50/60 Hz., by (4) 9V internal batteries or with an external DC supply (12 - 36 VDC) connected via rear terminals. This allows the unit to be powered by a car battery, cigarette lighter, camera pack, etc. and the unit will automatically switch to DC back-up in the event of an AC power interruption. Additional active mic/line outputs can be added with optional 16 channel PRESS2XP expander module, giving you up to 48 total active outputs. Additional mic outputs can be achieved by adding passive PB Series Press Boxes to outputs set to line level.

PressPower 2 \$2,099.95

Whirlwind PressMite Active Press Feed Distribution Box



The Whirlwind PressMite active press feed distribution box distributes 12 high-quality mic level signals and 2 line level signals with a high degree of isolation between outputs. It provides a 60dB gain adjustment for one mic or line input. The PressMite also features a built-in headphone amp. Two alkaline 9V batteries provide power for typically more than 8 hours of continuous operation, monitored by a Battery OK LED or use the included DC power adapter. In MIC input mode, 18V phantom power is selectable. An LED headroom display speeds adjustment. If more outputs are needed, PB Series Press Boxes can be connected to the line outputs to provide up to 48 additional mic outputs.

PressMite \$999.95

Whirlwind Medusa Pressbox

The Whirlwind Medusa Pressbox is a rugged, passive, transformer splitting device that takes a single line level signal and provides multiple low impedance feeds.

PB06 1-in, 6-out \$185.35
 PB12 1-in, 12-out \$297.64
 PB24 1-in, 24-out \$497.67



Whirlwind MIX-44 Matrix Mixer



Whirlwind's MIX-44 is a unique 2U product that allows the creation of four discrete mixes from four separate inputs. It accepts four separate balanced line level input signals, and applies them to four separate mixer sections where they are combined through volume controls to provide four separate output mixes. Each of the four mixer sections has four input volume controls, one for each of the input signals. These signals are combined through a master volume pot and exit via balanced line level XLR's. Switches are provided to enable the MIX-44 to be used as two, four by two matrices. Inputs and outputs are balanced XLR's. A meter and headphone circuit monitor the four master outputs.

MIX-44 \$999.95

Whirlwind MIX-5S Stereo Mixer



The Whirlwind MIX-5S is designed as an all-purpose mixer for sound contracting. It offers 4 input channels, each with XLR and 1/4" TRS balanced connectors, suitable for mic or line level use. An LED readout provides a visual indication of levels, and phantom power is provided for operating condenser microphones. XLR and 1/4" TRS outputs are provided, with the XLR output mic or line level switchable. The outputs have their own drive circuit for isolation. An aux channel is provided with RCA input jacks for connecting a tuner, CD player, tape player, etc.

MIX-5S \$479.95
 MIX-5 Same as the MIX-5S, except mono \$419.95
 MIX-6 6 input stereo mixer • XLR/TRS/TR/RCA • mic/line I/O • defeatable 40dB/meter \$959.95
 MIX-8 8 input stereo line level mixer with split input \$699.95

Zercom MAX-Z 4-Channel Remote Console

The Zercom MAX-Z is a four channel mixer with both dedicated balanced and dial up phone line connections. Features include: clock, stopwatch/timer, VU meter, low battery indicator, four headphone jacks with cues fed to the left channel, wide range audio inputs that will match mic to line levels, cue channel, phone line alarms, and tone or pulse memory dialing. Accessories supplied are carrying case, built-in rechargeable batteries and charger. Size 13"x17"x5" Weight 15 lbs.



Max-Z 4-Channel Remote Console \$1,286.00
 RBP Remote Broadcast Package, Max-Z with Zercom Telephone Hybrid .. \$1,676.00

Zercom MAX-Z II 2-Channel Remote Console



The Zercom MAX-Z II is an abbreviated version of the MAX-Z. High quality audio handling is maintained in the two channels of audio input. It is AC or DC powered with two headphone outputs, cue channel and case. Size 8"x9.5" Weight 6 lbs.

Max-Z II 2-Channel Remote Console \$797.00

Broadcast is a Contact Sport

Combining the great features of our original RemoteMix 3, with a third mic input, a third headphone output, and a host of other new goodies, our new RemoteMix Sport Hybrid Mixer is your best choice for professional sports broadcasting. Its compact design and combination phone line/universal handset connection provide unparalleled freedom and ease of use. Simply plug it into any analog line or a digital PBX or ISDN phone and begin the play-by-play.



make contact with the
RemoteMix Sport

A World of Solutions from JK Audio:

JK Audio makes telco-to-audio - to-telco simple and easy with an exceptionally wide range of interface solutions. Our innkeeper 1 Digital Hybrid is available in both rack and desk versions and provides the ultimate in affordable performance. Broadcasters' General Store offers the entire JK Audio line, so give Broadcasters' General Store a call to see how JK Audio can help you.



JK Audio

REMOTE BROADCAST GEAR

NEW REMOTE SOLUTIONS

SAME MARTI® VALUE

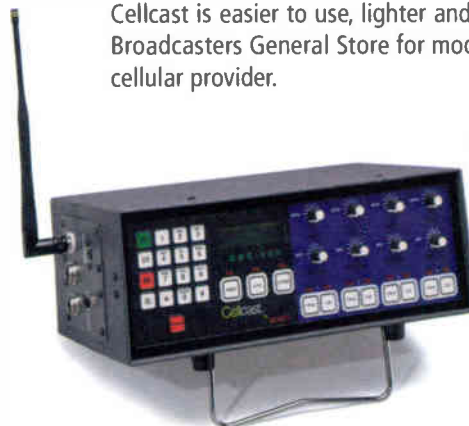


PLUG N PLAY 150 EXCITER/TRANSMITTER.

The latest digital exciter/transmitter for value conscious operations. Accepts analog or digital input from your STL, ISDN, or direct feed and produces digital quality audio at a fraction of the cost. Inputs include Composite, L&R, TOSLINK, AES/EBU, and / or SPDIF.

DIGITAL CELLCAST.

Designed with the sportscaster in mind the new Digital Cellcast is easier to use, lighter and more rugged. Contact Broadcasters General Store for model availability for your cellular provider.



**COMING
SOON!**

ASK ABOUT OUR COMPLETE LINE OF REMOTE PICK-UP PRODUCTS AND STLS!



RPT-30 REMOTE TRANSMITTER.

- Frequency switch selects both frequency and deviation, eliminating error and interference
- Four balanced mic mixing inputs
- Compatible with MARTI mobile repeater, fixed auto. repeater and base station
- Frequency range - 140-220 MHz /45W/1 MHz
- Max. Power Output - 220-300 MHz/40W/2 MHz
- Power requirements - 110-125 VAC. 50/60Hz (220 VAC option available)



RPT-2 PORTABLE TRANSMITTER.

- 2.5 watts continuous output
- Capable of one or two frequency operation
- Standard internal battery provides 2.5-3 hours of continuous operation
- Frequency range - 140-220 MHz/1 MHz; 200-300 MHz/2 MHz; 300-400 MHz/4 MHz; 400-500 MHz/5 MHz
- Power requirements - 110-125 VAC. 50/60Hz (220 VAC option available)

MARTI®

A Broadcast Electronics Company

Call Broadcasters General Store for more information
352-622-7700

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Mixers/Consoles • Utility/Sub Mixers

Broadcast Tools SM-6 6-Input Stereo Mixer



The Broadcast Tools SM-6 is a 6 input stereo mixer, equipped with 6 front panel push button type on/off switches and stereo balanced inputs with 15-turn input trimmers and single turn output trimmers.

Ample gain is provided allowing use of unbalanced consumer level devices. The SM-6 may also be configured for dual monaural output operation. Audio connections appear on the rear panel via removable screw wire captive terminals. Applications include: programmable mix-minus for telephone hybrids, selectable IFB feeds and additional console input expansion.

SM-6 6-Input Stereo Mixer \$349.00

DOD SR606 Line Mixer w/DA & Buffer Amp



The DOD SR606 is a line mixer, a distribution amp, and a buffer amp all in one. It includes left/right stereo inputs, 6 channel inputs, 6 channel outputs, and left/right stereo outputs. Each channel has level and pan controls as well as independent level control for the stereo inputs and stereo outputs. Features include: three tools in one • stereo input distribution amp • 6 channel distribution amp • 6 channel buffer amp • stereo outputs • and 1U.

SR606..... Line Mixer w/DA & Buffer Amp \$319.95

Henry Engineering MicroMixer

Henry Engineering's MicroMixer will accept up to four balanced or unbalanced line-level inputs and will mix them to a stereo output. A level control for each input provides adjustment from "off" to +10dB of gain. "Micro-Assign" switching permits each input to be assigned to the left, right, or both outputs in any combination. All circuitry is active and direct coupled for exceptional sonic accuracy.



Micromixer \$195.00

Henry Engineering StereoMixer

The Henry Engineering's StereoMixer is an eight input, three output stereo line mixer for line-level sources. It lets you mix four stereo or eight mono sources or a combination of both. Each bridging input will accept a balanced or unbalanced source. A level control for each input provides adjustment from OFF to +10dB of gain. Left and Right buss inputs allow multiple StereoMixers to be linked together to expand input capacity. All connections are via barrier strip terminals.



StereoMixer \$250.00

Intelix 8002 MCB Mic/Line Mixer



The Intelix 8002 MCB is an eight channel, dual buss microphone mixer designed for the broadcast, video field production, sound reinforcement and recording industries. It has: balanced inputs and outputs • 1U chassis • phantom power • level control • LED bargraph • limiter • front panel headphone output • dual busses • and can be AC or DC powered.

8002MCB \$649.00

Rane MLM82a Mic/Line Mixer



The Rane MLM82a is an eight-input, two-output mic/line mixer. Inputs 1-4 are mic/line level switchable, and inputs 5-8 accommodate up to four stereo or mono line level sources. Features include: four stereo/mono balanced/unbalanced line inputs (1/4" TRS) • four mono balanced line inputs (XLR) • outputs switchable to mic or line level • phantom power switch • trimless mic stage preamps • stereo/mono switch • and bi-color signal present/overload LEDs.

MLM82a \$499.00

Rane SM 26B Line Level Mixer



The Rane SM 26B combine a 6-in/2-out line level mixer and a 2-in/6-out splitter distribution amplifier in a one rack unit package. It provides Mix/Pan and level controls with 12dB gain for level matching and can be used as a line boost amp, zone level controller, or in a combination of modes at once. Inputs and outputs are balanced 1/4" TRS.

SM-26B \$439.00

Rane SM-82 Stereo Line Level Mixer



The Rane SM-82 stereo line level mixer has 8 stereo or 16 mono unbalanced 1/4" TS line inputs. Each input channel has a stereo rotary input level control, stereo aux send slider and a balance control slider. The aux return section and the output stage both include a rotary level control and a slide balance control.

SM-82 \$599.00

Hotlinks to Vendors ®



www.bgsfl.com
www.broadcastdealer.com

Mixers/Consoles • Utility/Sub Mixers

Stewart MM4-S

4 Channel Active Stereo Output Mixer



The Stewart MM4-S is a four-channel active stereo output mixer in a half-rack chassis. Each of its four balanced mono inputs are individually switchable between microphone and line level, with switchable +48v phantom power. The MM4-S features an individual gain and pan control for each channel, as well as master level control, and switchable balanced output operating levels.

MM4-S	Two year warranty	\$399.00
RMK100	Single rack	\$20.00
RMK200	Dual rack	\$30.00

Symetrix 450 Dual Zone Priority Mixer



The Symetrix 450 Dual Zone Priority Mixer has two mono mic/line inputs (with phantom power and low frequency filters) and four stereo line inputs. Each input may be assigned to a stereo output zone, a mono output zone or both. Its unique hierarchical Priority Override structure permits the two mic/line inputs and the first stereo line input to mute the other (lower priority) inputs assigned to the same zone. The 450's flexibility and simplicity make it the perfect choice for a wide variety of systems. By accepting audio inputs from virtually any type of audio source and selectively routing to either the mono or stereo output zone the 450 can save you time and money in the design and installation of your next project.

450	\$669.00
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Tascam M08 Compact Mixing System



The Tascam M08 compact mixing system features: 12-input (4 mono, 4 stereo) • 4 XLR inputs • 2-band EQ on all channels • 2 dedicated aux sends (pre and post) • 4 mono effects returns • mute and PFL on each input channel • dedicated 2-track input • and 60mm linear master fader.

M08	\$399.00
RM08	Optional rack mount kit \$17.00

Monitoring • Meters

ATI Microamp Series

VU800, VU600, VU400 and VU200

The ATI Microamp Series VU800, VU600, VU400 and VU200 are your electronic security blankets. Give yourself that



warm, secure, all-is-well feeling by displaying all your important signal lines simultaneously. Know at a glance where your signals are (or are not). Display one, two, three or four stereo lines (eight channels) on bright, three color, sixteen segment, LED bargraphs with simultaneous VU and PPM indication. Balanced bridging inputs are switchable for 0VU at -10, +4 and +8dBm line levels. Wide range, backlit scale, 3-1/2" rack mount.

VU200	One Stereo Display	\$579.00
VU400	Two Stereo Display	\$799.00
VU600	Three Stereo Display	\$1,049.00
VU800	Four Stereo Display	\$1,299.00

ATI Microamp Series VU1000

Eight Line Switcher, Meter & Monitor Amplifier

The ATI Microamp Series VU1000 eight line switcher, meter and monitor amplifier is capable of many functions. Use the VU1000 as an input line selector to an audio or video recorder, a remote line selector into your console and



for general metering and monitoring of critical signals. Eight balanced bridging inputs are panel and remotely selectable to feed the LED bargraph meter with both VU and PPM ballistics plus a balanced line output and a headphone jack. A range switch sets the reference line output and 0VU indications for five input levels from -10 to +18dBm.

VU1000-1	Drives 600Ω phones or external power amp such as MA1000 ..	\$699.00
VU1000-2	Includes 6W power amp for Lo-Z phones or external speaker ..	\$799.00
20209-501	Stereo Interconnect Cable	\$15.00
20214-501	Remote Control Scan Cable	\$12.00

ATI Nanoamp Series DM200 Digital Monitor

The ATI DM200 Digital Monitor accepts loop-thru AES/EBU format digital studio data via 110Ω XLR and 75Ω BNC and RCA connectors. A 24-bit, 96kHz D/A converter feeds stereo headphone drivers, balanced audio line outputs and a stereo LED meter. Input sample rates of 32, 44.1, 48, 82.2 and 96kHz are decoded and indicated with a front panel display. A data VALID light indicates that there have been no data or transmission errors. Bright, stereo two color LED meters are switchable to the D/A converter output and indicate headroom down from 0dBFS (the digital maximum output of the D/A) in ten 3dB steps. The meters also read the balanced line output level with 0dB midscale equal to +4dBm output. Display ballistics are PPM for optimum indication of audible peaks.



DM200	Digital Monitor ...	\$599.00
WA100-1	Wall mt. Power supply ..	\$15.00

Monitoring • Meters

ATI Nanoamp BGD200 & BGD400 Series

Audio Metering

The ATI Nanoamp Series Audio Metering can display up to twelve critical audio lines in only a single rack space. Remote, shared power supplies let you mount these bright three color VU or PPM meters directly under video monitors or critical audio circuits with no possibility of magnetic interference. Available in two channel horizontal with and without phase indication and headphone monitor and also in four channel vertical configurations. Intense, multiple color, ten segment displays are visible even in loading in bright sunlight. VU models display -20 to +3dBu, around 0VU, PPM models cover -15 to +12dBu. High impedance nonloading inputs accommodate balanced or unbalanced input signals. Two piece, quick release screw plug connector per input. Power supply, capable of driving multiple units, ordered separately.



BGD200 back

BGD200-VU	Dual bargraph meter display VU Response	\$369.00
BGD-200-VU-Ø	As above w/bi-polar LED phase indicator & headphone monitor	\$399.00
BGD200-PPM	Dual bargraph meter display PPM Response	\$369.00
BGD-200-PPM-Ø	As above w/bi-polar LED phase indicator & headphone monitor	\$399.00
BGD400-VU	Quad bargraph meter display VU Response	\$459.00
BGD400-PPM	Quad bargraph meter display PPM Response	\$459.00
WA100-1	Wall mount power supply, UL, 24Vdc@.4amp, 115Vac/60Hz	\$15.00
20602-1	DC power cable to loop through the DC power, 13" DC plugs	\$3.50

B&B AM-1B X/Y Scope



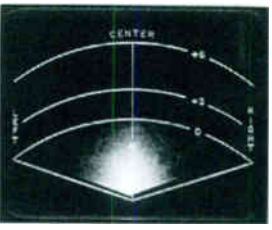
B&B AM-1B has a quality X/Y scope with 2 VU meters and 2 peak LED's. This unit provides monitoring of stereo

audio phase, program average and peak levels, plus SMPTE time code phase/genlock. It is ideal for television production and post production facilities. 3U

AM-1B \$4,160.00

B&B IM-1HR Imagescope

The B&B Imagescope™ half-rack unit is the ideal tool for any stereo audio monitoring application. It displays the complex stereo audio signal, showing the dispersion of energy as it will sound in a typical listening environment. The Imagescope™ is used to position any track or tracks in the stereo image. At a transmission site the scope will show mono compatibility of stereo program material and allow you to observe the separation, balance and level of the stereo signal. 3U



IM-1HR \$2,260.00

B&B AM-2 X/Y Scope



The B&B AM-2 is similar to the AM-1B in monitoring stereo audio phase and levels but without the features of SMPTE time code monitoring and channel selection for the CRT display. Designed for stereo radio facilities and recording studios. 3U

AM-2 \$3,560.00

The B&B AM-2B is a compact version of the AM-2, with identical functions, for use in limited rack space environments. 2U

AM-2B \$2,960.00

B&B AM-2HR X/Y Scope



The B&B AM-2HR is a half-rack unit with quality full size X/Y scope, for visual "stereo" audio phase monitoring. Front panel control of line level outputs and amplified headphone/speaker outputs. Front panel selection of "stereo" or "L+R SUM" audio monitoring. 3U

AM-2HR \$2,260.00

B&B AM-3B Real Time Visual & Audible Monitor



The B&B AM-3B is a real time visual and audible monitor of stereo audio. Phase, program VU levels,

peak threshold, (L+R) aux., internal power amplifier and two sets of three inputs make this unit perfect for any stereo audio application. 2U

AM-3B \$3,400.00

The B&B AM-3 is a complete tool for stereo audio transmission applications. It provides monitoring of stereo audio phase, program average and peak levels, plus a third channel display selectable between left and right channel sum or SAP (second audio program). 4U

AM-3 Special order only \$4,260.00

B&B MP-2 & MP2A Audio Meter Panel

The B&B MP-2 Audio Meter Panel has two independent VU meters resistively buffered to meet E.I.A. standards. No calibration adjustments. 2U

MP-2 \$620.00

The B&B MP-2A Audio Meter Panel has two buffered input channels configured as a stereo pair. The level of each channel is displayed on an independent SIFAM VU meter with calibration adjustments for each meter. 2U

MP2A \$1,725.00

MP2A+ With phase indicating LED display \$1,975.00

Monitoring • Meters

B&B MP-4 & MP4A/B Audio Meter Panel



The B&B MP-4 Audio Meter Panel has four independent buffered channels. The standard unit has two rear panel female XLR inputs. The left input is internally

strapped between channels one and two while the right input is internally strapped between channels three and four. The left and right inputs have one buffered VU meter and one buffered PPM meter each. The four channels allow for different calibration adjustments on each meter. 2U

MP-4 \$1,800.00

The B&B MP-4A Audio Meter Panel has four independent buffered channels. The standard unit has four rear panel female XLR inputs. These four correspond to individual meters with independent calibration adjustments for each meter. 2U

MP-4A With VU Meters \$1,800.00
 MP-4A+ With Phase LED \$2,050.00
 MP-4B With PPM Meters \$1,800.00

Benchmark SPM Meter Systems



Benchmark SPM Meter Systems resolve the quandary between using Peak or VU meters. These "on-line" systems use true VU meters, but are instantly switchable to a PPM mode. The SPM-220's Peak Hold can capture and retain the highest peaks for later review, even while monitoring in VU. Push button selection of Matrix stereo metering in both Peak and VU modes allows easy detection of polarity inversions, thus protecting the mono sum. The SPM-220 is a 2U chassis with a built-in stereo headphone amp and a Peak indicating LED on each meter. Other features include: true VU volume indicators per ANSI spec • balanced 100kΩ inputs • BNC scope outputs • and optional balanced outputs for monitoring. The SPM-320 has the same features as the SPM-220, plus a third meter that may be used with SCA or SAP, or internally assigned for continuous mono monitoring.



SPM-220 2 Channel Audio Meter w/headphone amp \$1,375.00
 SPM-320 3 Channel Audio Meter w/headphone amp \$1,825.00
 RPM-1 Kit to convert VU meter to VU & PPM \$175.00
 VU-1 Sifam R32AF VU Meter \$130.00
 PPM-1 PPM Card & Meter Set \$360.00

1-352-622-7700

Dorrough Loudness Meters

The Dorrough Loudness meter eliminates the shortcomings of conventional VU or PPM meters. The VU meter is too slow to respond to peak



excursions; it is known as a quasi-average reading device. While the PPM meter does display and hold the peak level of waveforms, the

quasi-average program level

is completely ignored. The

Dorrough loudness monitor solves this. It displays, in an easy to read format, the actual energy content of the material, regardless of frequency, while still indicating the peak amplitude of the complex audio signal. This meter gives you more complete and more usable informa-



tion than any combination of peak hold, VU and PPM indica-

tors. All Dorrough second

(2) generation meters have

fully integrated peak-hold

functions.

- 40-A2 Std loudness meter w/internal PS, 8-1/2"x2-7/8"x6-1/2" \$475.00
- 40-B2 Relative loudness to peak modulation meter \$475.00
- 40-C2 Scale differentiation of 40-A2 with 20dB headroom ... \$475.00
- 20-A/B/C2 Straight line version of 40 series \$475.00
- 10-A/B/C2 Panel mount 5"x2-1/2" w/external PS \$475.00
- 12-A2 Dual version of the 10-A2, 8-1/2"x3" \$950.00
- 40-S Rack mount for single 40 \$45.00
- 40-D Rack mount for dual 40, 19"x3.5" \$45.00
- 20-S Rack mount for single model 20 \$45.00
- 20-D Dual model 20 19"x1.75" \$45.00
- 10-S Single rack \$45.00
- 10-D Dual rack \$45.00
- 10-T Triple rack allows for a center ch. sum meter when
wired for both right and left channels. \$45.00
- 12-S Single rack \$45.00
- 12-D Dual rack, allows for a total of four metering ch. \$45.00

Explanation of Dorrough meter suffixes:

40-A2 has a scale allowing 14dB of headroom in 1 dB steps. 40-B2 is a scale differentiation of the 40-A2 and is calibrated in percent modulation, with the lower scale in dB from +3 to -36dB. 40-C2 also a scale differentiation of the 40-A2 allowing 20dB of headroom.


Please call BGS for ordering details.

The Dorrough 40-P, parity of signals, both mono and stereo, can be seen on this meter as two indications starting at center scale. A null feature is also provided.

40-P \$595.00

Dorrrough Digital-Reading Meters

280-D



The Dorrrough Digital-Reading Meters model 280-D and 380-D are AES/EBU reading and feature display of both peak and average simultaneously, over indication, and selectable peak-hold. Conforms to all specifications of AES 3 1992. Console or panel mount; Euro block terminals; and uses external power (12-24 Vdc, 0.5A).

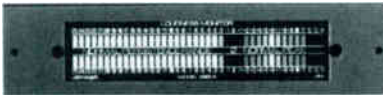
- 380-D 40dB, (Vertical mt.) \$850.00
- 280-D 40dB, (Horizontal mt.) \$850.00
- 380-E 60dB, (Vertical mt.) \$850.00
- 280-E 60dB, (Horizontal mt.) \$850.00

380-D



Dorrrough

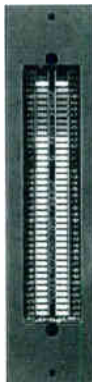
280A



The Dorrrough 280-A and 380-A feature a single meter with two channels of audio. The meter measures 1-1/2"x5" and has an external power supply.

- 380A/B/C (V) Analog model, vertical mount \$850.00
- 280A/B/C (H) Analog model, horizontal mount \$850.00
- 280-S Single rack \$45.00
- 280-D Dual rack \$45.00
- 280-T Triple rack \$45.00

380A



Dorrrough 240-A2

Console Mount & Surround Sound Loudness Meter

The Dorrrough 240-A2 is a vertical single channel Loudness Meter designed for standard console mounting, 1/4" wide by 5" high. Also used for Surround Sound configurations.

- 240-A2 Loudness Meter \$475.00

Dorrrough 400-A

Large Stage Work Loudness Meter

The Dorrrough Loudness Meter 400-A is a large meter for stage work measuring 23"x8"x4". It is a stand alone unit and has an internal power supply. A and B scales available.

- 400-A Large Stage Work Loudness Meter \$1,995.00



Dorrrough CATV Audio

Loudness/Video Level Test Set

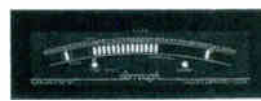


The Dorrrough model 1800 CATV Audio Loudness/Video Level Test Set

is designed for quick set-up of audio and video levels on multiple cable-television channels. Equal perceived loudness is adjusted with the Dorrrough Loudness Meter, while accurate modulation/sync levels are set using the Video Luminance Meter. The loudness meter is the model 10-B and the video luminance meter is model 40-N(P/S) with a CATV cable converter.

- 1800 \$1,995.00

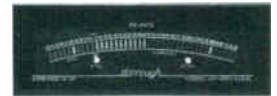
Dorrrough Video Luminance Meter



The Dorrrough Video Luminance Meter Model 40-P/S is a PAL/SECAM version scaled in volts, displays average and peak luminance, sync level, and blanking.

- 40-P/S \$750.00

The Dorrrough Video Luminance Meter Model 40-N is an NTSC video level meter that displays the video signals of average and peak luminance, sync level, and setup violations. Sync range -50 to -32 IRE. Meter resolution 4 IRE per LED.



- 40-N \$750.00

ESE Digital Audio Level Meters



The ESE Digital Audio Level Meter has been designed to simulate the action of a conventional VU Meter, yet features superior dynamic characteristics. The ES216 Audio Level Indicator displays audio levels in ten discrete steps using ten LED indicators. Levels of -20, -10, -7, -5, -3, -1, 0, +1, +2 and +3 dB are displayed. Levels below 0 dB are displayed using green LED's: 0 dB is displayed in yellow; and levels above 0 dB are displayed in red. The ES216 is available in either the peak reading mode or the VU response mode.



- ES214 Digital, vertical mini-panel mount meter \$145.00
- ES215 Digital, horizontal mini-panel mount meter \$145.00
- ES215P2 Stereo or Dual Mono, 1U \$370.00
- ES215HP2 Side by side (horizontal) version of 215P2 \$370.00
- ES215P3 Triple (stereo/center) audio level indicator, 1U \$540.00
- ES215P4 Dual Stereo, 1U \$685.00
- ES215P6 Triple stereo audio level indicator, 1U \$975.00
- ES216 Digital audio level indicator - meter \$69.00
- ES216P2 Stereo or Dual Mono, 1U \$190.00
- ES216P3 Triple (stereo/center) audio level indicator, 1U \$260.00
- ES216P4 Dual Stereo, 1U \$330.00

Hotlinks to Vendors



www.bgsfl.com @
www.broadcastdealer.com

Monitoring • Meters

Furman SRM-80 Signal Router/Monitor



The new Furman SRM-80 signal router/monitor provides a way to manage mixdown and dubbing in a single product. It offers signal routing and monitoring for four stereo devices (such as DAT, cassette, Mini Disc, CD-R, etc.) plus the main console output. The SRM-80 greatly simplifies mixdown and dubbing between different media types without tying up additional console channels. Multiple copies can all be made simultaneously through use of the SRM-80's "Source Select" switches. In addition, A/B/C listening comparisons can be made among three different speaker types, and all gains are front panel adjustable for equal loudness when switching between speaker pairs. The SRM-80 also provides an internal, high-power headphone amp. Other features include: mono sum, DIM and mute. A high resolution (40 LED x 2) I/R meter is switchable between VU and PPM modes, and has an automatic peak hold function. An optional remote unit that duplicates the SRM-80's front panel pushbuttons is also available, and comes with a 10 foot cable.



SRM-80..... Signal Router/Monitor \$499.00
 SRM-RU Remote Control Unit \$79.00

Furman VU-40 Stereo System Monitor



The Furman VU-40 is a convenient rack-mount, dual channel level monitor for use in any application where a quick visual check of system performance is desirable. It is comprised of two 20 LED bargraph meters, calibrated in dB like standard VU meters. You can set a front panel switch to read either peak or average response. Other features include • On/off transient muting function protects speakers • Line level/power out switch for each channel • Line level may be set to -10, 0, or +4dBu • Sixteen power out choices from 20 to 1260W, also accommodates 25 volt and 70.7 volt lines • and ground lift, on/off switches.

VU-40 Stereo System Monitor \$249.00
 VU-40B Includes XLR balanced line level I/O on each channel \$299.00

Inovonics TVU Stereo Audio Level Metering



The Inovonics TVU displays stereo audio level metering on the screen of a video monitor and is VU/PPM switchable. Applications include uses in television production, post-production, broadcast, cable TV, and video duplicating facilities. 1U

TVU-00 \$620.00
 TVU-20 Rack mount panel option for 1 or 2 units \$40.00

Logitek Meters

2VUB



4VUB

Logitek Analog Meters

2VUB-x 2 Lighted VU meters in a 2U, w/Phase check \$525.00
 4VUB-x 4 Lighted VU meters in a 2U, w/Phase check \$790.00
x=Specify "A" for A scale -20 to +3dB (dB on top) or "B" for B scale 0 to 100% (modulation on top)

Logitek LED Meters

Surround Sound Meters (in a metal console-top case)

SV51-x 5.1 format meter with Super-VU style display \$2,095.00
 UV51-x 5.1 format meter with Ultra-VU style display \$3,100.00
 UV71-x 7.1 format meter with Ultra-VU style display \$3,900.00

Tri-VU Curved Meter

TVU2-x 1 stereo VU meter with curved LED displays \$675.00
 TVU4-x 2 stereo VU meters with curved LED displays \$1,025.00

Bright VU Series



BDT-x 1 stereo meter in a desktop case \$470.00
 BV2-x 1 stereo meter in 1U enclosure \$560.00
 BV4-x 2 stereo meters in 1U enclosure \$795.00
 BV6-x 3 stereo meters in 1U enclosure \$995.00
x=Specify "A" for Analog or "D" for Digital Inputs

Silver-VU Series VU Display only

SDT-x 1 stereo meter in a desktop case \$725.00
 SV1-x 1 stereo meter in 1U enclosure \$895.00
 SV1-B SV1 with both Analog & Digital Inputs \$995.00
 SV2-x 2 stereo meters in 1U enclosure \$1,495.00
 SV2-B SV2 with both Analog & Digital Inputs \$1,695.00
 SV3-x 3 stereo meters in 1U enclosure \$2,095.00

Super-VU Series VU plus phase/mono sum display



SIS1-x 1 stereo meter plus phase/sum in 1U enclosure \$1,095.00
 SIS1-B SIS1 w/both Analog & Digital Inputs \$1,195.00
 SIS2-x 2 stereo meters plus 2 phase/sum in 2U enclosure \$1,895.00
 SIS2-B SIS2 w/both Analog & Digital Inputs \$2,095.00

Ultra-VU Series VU - phase/mono sum + mono + bandwidth filter



UDT-x 1 Ultra-VU meter in a desktop case \$1,080.00
 UDT-B UDT w/both Analog & Digital Inputs \$1,180.00
 UV1-x 1 Ultra-VU meter in 1U enclosure \$1,230.00
 UV1-B UV1 w/both Analog & Digital Inputs \$1,330.00
 UV2-x 2 Ultra-VU meters in 1U enclosure \$2,100.00
 UV2-B UV2 w/both Analog & Digital Inputs \$2,300.00
x=Specify "A" for Analog Inputs or "D" for Digital Inputs

1-352-622-7700

Monitoring • Meters

McCurdy MTR-8 Bargraph Meter



The McCurdy MTR-8 LED bargraph meter has eight LED bargraph meters for four stereo or eight mono sources in one rack unit. Audio input to the unit is through rear panel mounted WECO type pluggable barrier strip connectors. The inputs are fully balanced with optional AES/EBU ins. Available from -10, 0, +4, +8 dBu, please specify level when ordering.

MTR-8 \$795.00

McCurdy VUP-4 Audio Level Meter



The McCurdy VUP-4 Quad VU/PPM audio level meter features: Taut-band high quality meters • accurate readings to 0.1dB resolution • LED illumination • Balanced, bridging inputs • PPM, VU or both types • Four channel operation • Designation strip for user supplied IDs • and optional AES/EBU inputs. Available for -10, +4, +8 dBu, please specify level when ordering.

VUP-4VPVP \$1,195.00
VUP-4XXXX* Any configuration of 4 meters \$1,195.00
VUP-4XNNX* Any configuration of 2 meters \$995.00
** Specify V, P, or N for X to configure meter. V= VU, P= PPM, & N= none*

Radio Design Labs RU-SM16

Dual Audio Meter



The Radio Design Labs RU-SM16 Dual Audio Meter is for anywhere you need audio level metering, digital string display indication, precise left/right

meter tracking, individual channel calibration controls and selectable peak or average metering. It has two separate line level inputs. Each input permits the connection of either balanced or unbalanced, high or low impedance audio lines. All connections are made using full-size barrier block terminals. 1/3U for high density rack mounting. Each channel input has a write-on label area for identification of the source or function being monitored.

RU-SM16 Dual Audio Meter \$226.00

Radio Design Labs RM-MP12

Audio Monitor Panel



The Radio Design Labs RM-MP12 Audio Monitor Panel is for anywhere you need: twelve individually selectable audio inputs • LED above each button to show selected source • VU Ballistic LED above the button for each audio input • calibrated front-panel meter display • front-panel speaker and headphone jack • digital attenuator for headphone & speaker control • internal 4.5W RMS power amplifier and speaker • and audio inputs and outputs on plug-in terminal blocks. 1U.

RM-MP12 Audio Monitor Panel \$768.00

Ward-Beck POD3 Stereo Level VU Meters



The Ward-Beck POD3 is a stereo, extended range VU meter. Balanced, bridging inputs to POD3 are via two XLR3(F) connectors located on the rear panel. The

left and right VU meter displays each comprise 25 LED segments and cover the range from -36dBu to +25dBu. The unit is factory calibrated for a nominal +4dBu input signal (ie: +4dBu = 0 VU). POD 3 can be field calibrated by removing the top and adjusting R70 and R75, located on the main PCB.

POD3 Stereo Level VU Meter \$425.00

Ward-Beck POD 11 AES/EBU Digital Audio Monitor

The Ward-Beck POD 11 is an AES/EBU digital audio monitor. It features a dual channel, 20 segment LED level display along with 8 signal status LED indicators. Three unbalanced RCA phono jack analog audio outputs are provided to allow aural monitoring of the digital signal via headset or external power amplifier and speakers. LED status indicators display sampling frequency rate, 32, 44.1 or 48kHz, signal lock, CRC error, confidence, consumer and phase error. a front panel headset jack with level control is provided.



POD11 110Ω balanced input on an XLR3(F) \$525.00
POD11/75 75Ω unbalanced input on a BNC \$525.00

Ward-Beck M445 Meter/Monitor

The Ward-Beck M445 is a combination of racked and portable extended range metering and monitoring. In its docked position, it serves as a stereo meter/monitor for plant levels. Undocked, the M445 functions as a precision portable stereo audio monitor, operating on ready-charged Nicad batteries.



M445 Extended Range Meter/Monitor \$2,100.00

Ward-Beck MP Series Custom Meter Panels



The Ward-Beck MP series of custom meter panels can contain up to four meters of your choice. All meters are LED illuminated, and all panels are supplied with a 115V AC adapter. PPM Scale 6 is standard, unless otherwise specified. Please call for further information and pricing.

Ward-Beck SMS4 4-Channel Stereo Metering System



The Ward-Beck SMS4 is a 4-Channel Stereo Metering System. Each stereo meter pair comprises two 18 segment LED level displays and a digital audio LOCK indicator. The SMS4 can be used to display the levels of any combination of four digital (AES/EBU) and/or analog audio signals simultaneously. Connections to the SMS4 on the rear panel are via pluggable screw terminals for the stereo analog audio and 110Ω AES/EBU digital inputs. The unit is also equipped with BNC connectors to accommodate 75Ω digital signal inputs.

SMS4 4-Channel Stereo Metering System \$1,365.00

Monitoring • Meters

Wohler Metering

High Resolution/Performance Level Meters

- LM30-2 2 channels (one pair) of large format 24-segment, tri-color bargraph analog level meters w/separate peak LED, Horizontal mounting in 1U \$695.00
- LM30-2P LM30-2 w/Phase/Polarity indicators \$780.00
- LM30-4 Same as LM30-2 but 4 Channels, 1U \$1,125.00
- LM30-4P LM30-4 w/2 Phase/Polarity indicators \$1,210.00
- LM53-4SDI Same as LM30-4 but 53-segment w/SDI input and demux ... \$1,950.00



- LM53-8 8 channels (four pair) of 53-segment, high resolution, tricolor bargraph analog or AES/EBU digital level meters, horizontally mounted 1U \$1,910.00
- LM53-24 24 channels of 53-segment, high resolution tri-color bargraph analog level meters mounted vertically in 2 U \$4,250.00
- LM60-2 2 channels of 60-segment, ultra high res., tri-color, large format LED level meters, 1U \$895.00



- LM106-2 2 channels (one pair) of 106-segment, high resolution, tri-color bargraph analog or AES/EBU \$1,025.00
- LM-106-4 Same as LM106-2 except w/ four 106 segment meters ... \$1,625.00
- LM106-4SDI ... Same as LM-106-4 w/SDI demux & 1 relocked SDI out \$2,475.00
- LM-106-6 Same as LM106-2 except w/six 106 segment meters \$2,200.00
- LM-106-6HR LM-106-6 that fits in Tektronix 1/2 tub \$2,300.00
- LM-106-6/AC3 LM-106-6 w/one Dolby AC-3 input on BNC \$3,350.00

When ordering AES/EBU level meters for LM Series above add suffix -D. Both analog and AES versions have Phoenix connectors. BNC or XLR are optional at no additional charge. Please specify when ordering!

Level Meters



- MSLV-120 20-Ch. of 10-segment, tri-color bargraph analog meters, 1U \$1,600.00
- MSLV-120D To substitute digital level meters, add to suffix \$2,700.00

Level Meters and Alarms with Logging Outputs



- MLH-2AL 2 Channels (one pair) of large format (LV-25L) 24-segment, tri-color bargraph analog level meters with peak LED, 1U. Also includes alarm module (ALR-4) for loss of audio and overrange. Over and under delays are set per pair. \$1,045.00
- MLH-2ALD As MLH-2AL except w/digital level meters Phoenix connectors \$1,190.00



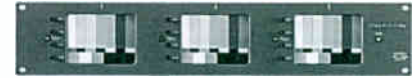
- MLH-4AL Same as MLH-2AL but 4 Channels, 1U \$1,600.00
- MLH-4ALD ... To substitute digital level meters, add to suffix \$1,890.00
- ALRM-20 Alarm unit for 20 channels loss of audio, includes internal sense units \$2,150.00
- ALRM-20HLO Alarm for 20 channels loss of audio & over range, includes internal sense units \$3,750.00

For custom configurations and pricing, please call Broadcasters General Store.

Wohler Analog & Video Monitors



MON3-2



VAMP-SDI



- MON3-2 Three NTSC or PAL Color Video LCD Monitor, Video loop-trough (3x BNC), 2Ux8.75" deep. \$1,995.00
- MON3-2SDI . SDI input option factory installed (per channel) \$495.00
- MON4-3 Quad NTSC/PAL auto sense, Color LCD monitors, 3U ... \$2,995.00
- MSDI-4 SDI input for MON4-3 option, field installable, (per channel) \$495.00
- MON1-T 5x3 Color Video Monitor NTSC or PAL fits in Tektronics 1/2 rack, 3U tub \$995.00
- MSID-T SDI input for MON1-T, factory installed \$495.00
- VAMP-1 Composite Video Monitor w/2 analog audio chassis. Specify NTSC or PAL, 2U \$1,975.00
- VAMP-24 Composite Video Monitor w/4 analog audio chassis. Specify NTSC or PAL, 2U \$2,850.00
- VAMP-SDI SDI Video Monitor w/analog/AES/SEI audio input. NTSC/PAL out, 2U \$4,800.00

Wohler In Picture Metering



All Wohler PanoramaDTV units feature a superimposed (mixed) audio bargraph image allowing the operator to set a comfortable mix level. Also, the bargraph may be instantly removed when required. As with most PanoramaDTV units, the bargraphs may also be displayed on an internally generated black background if incoming video is lost. Most models feature a comprehensive on-screen system menu. Meter parameters may be customized, including bar size, orientation, position and colors. All popular scales and ballistics may be selected and operating levels set. Depending on the model chosen, phase, sum & difference (M&S) and loudness meters may also be displayed. A timecode reader option is also available. Some models also feature alarms for indication of audio and carrier loss, over-level or sustained anti-phase.

SDI

- AM-SD16 SDI input w/loop thru. Places group 1 embedded audio on screen, full color with keying and transparency adjustment. Includes chassis \$2,950.00
- AM-SD16X As above w/audio demux and group select \$4,725.00
- AM-SD4D SDI I/O and break out to YUV/RGB & composite video, AES/EBU digital and analog audio. Four channels metering SDI embedded or aux AES. Phasebar sum and difference, black generator and alarms. \$8,850.00

Analog

- AM-2E ... PC card in picture with 2 channels analog full or half height color bargraphs, choice of scales and ballistics, peak hold, alarms for audio and video loss, remote capability \$895.00
- AM-2F ... 3U card frame will hold up to 16 AM-2E stereo cards. Dual PSU individual or group control. Multi-unit link \$2,700.00
- AM-2 2 Ch., Analog or AES/EBU Digital. Displays level, phase bar, sum & difference. Built-in black generator; audio loss, over level and reverse-phase alarms; on screen menu, remote facility. \$1,750.00

AES/EBU & Analog

- AM-4 4 Ch., all analog, all AES/EBU digital or two of each format. Displays level, phase bar, sum & difference. Built in black generator; audio loss, over level and reverse-phase alarm, on screen menu, remote facility. Please specify input configuration at time of order \$2,900.00
- AM-4/2 ... As above with two ch., analog or AES/EBU digital \$3,850.00
- AM-32 Multi-ch.all analog, AES inputs or mixed format. Phase bar, black generator, built-in alarms, on screen menu YUV & composite video in. (May be ordered with 32-Channels @ \$8,750.00 — 24-Channels @ \$7,950.00 — 16-Channels @ \$6,150.00 — 8-Channels @ \$5,500.00)
- AL-32 Remote alarms breakout box, reset and remote status indicator for AM-32 ... \$1,750.00

Monitoring • Special Application Speakers

Anchor Liberty 4500

Portable Sound System

The Anchor Liberty 4500 from Anchor Communications, is a powerful, portable sound system which converts from efficient voice projection to full-range, high fidelity with a simple flick of a switch. This unique product works as well indoors as outdoors and with or without AC power.



- MPA-4500 Dual Function Sound System (AC operable only) \$1,095.00
- MPB-4500 Dual Function Sound System (Battery & AC operable) \$1,250.00
- MPA-4500H ... Dual Function Sound System w/Heavy Duty battery \$1,290.00
- MP-4501 Dual Function companion (unpowered) \$600.00

Anchor Porta-Vox

Portable P.A. System

The Anchor Porta-Vox runs with or without AC power, weighs only 25 pounds and is powerful enough to provide crystal-clear sound to crowds up to 5,000.



- PB-500 Battery Operated Portable P.A. System \$1,000.00
- PB-500W Wireless Porta-Vox (order mic and xmtr. separately) \$1,300.00
- WH-58 Handheld mic/transmitter w/Shure SM-58 mic element \$367.00
- WB-II Body-pack transmitter only \$255.00
- CM-60 CollarMic™ for use with WB-II \$143.00
- HBM-60 Headband type mic for use with WB-II \$102.00
- SP-500 Speaker pack for Porta-Vox \$550.00
- RC-16 Replacement charger / AC adapter \$20.00



Lectrosonics Long Ranger III

Portable P.A. System

The Lectrosonics Long Ranger III is the highest output portable PA system of its type. The built-in wireless microphone, rechargeable power supply, and high audio output (the amplifier produces an honest 33 Watts RMS) produce enough audio output to cover an area the size of a football field. It operates on rechargeable battery pack or external 12 Volt power.

- Long Ranger III ... w/M175 belt-pack transmitter & HM142V headset mic \$1,490.00
- Long Ranger III ... w/M175LS belt-pack transmitter & HM142V headset mic .. \$1,515.00

New England Audio Resource (NEAR)

Environment-Proof Outdoor & Indoor Loudspeakers

NEAR's exclusive MDT(tm) metal-alloy diaphragm is about as light as is physically possible - nearly the ideal massless piston. The benefits are immediately recognized in the musical accuracy, fine detail of sound, and ease of listening. Here is a summary of MDT benefits:



- High rigidity and low mass of metal versus traditional papers and plastics
- Extremely stable cone structure over long periods of time
- Fast transmission of sound through the diaphragm means low energy storage
- Special anodizing process creates a ceramic coating for increased stiffness
- Efficient heat-sinking of voice coils under long-term, high-power situations



In addition to MDT, another unique technology is incorporated into NEAR speakers: Magnetic Liquid Suspension (MLS(tm)). MLS eliminates the traditional mechanical centering device (the "spider") for the voice coil and replaces it with a thick magnetic fluid that remains permanently suspended in the gap of the magnet, allowing the voice coil to remain centered and to operate with extreme linearity. In fact, the louder it plays, the more accurate the centering forces become. MLS benefits include:

- Voice coil is constantly centered as it moves up and down, for lower distortion
- Voice coil is more efficiently heat-sunked by fluid instead of air
- Greater linearity is accomplished because the mechanical spider is eliminated
- Constant lubrication of the gap prevents oxidation, even in outdoor uses
- Long-term operation is more consistent since fluid doesn't change characteristics
- Longer excursions with smaller diameter woofers; spiders limit excursions

Distortion is further reduced at high output levels through use of a dual-layer voice coil with separate inner and outer windings.



New Product-please call for pricing.

Model Number	..... A2/A2T	..... A6/A6T	..... A8/A8T
Mid/Bass Driver	..... 6"MDT™	..... 6"MDT™	..... 8"MDT™
Tweeter	..... 0.05" (coaxial)	..... 1" inverted dome	..... 1" inverted dome
Freq. Response	..... 85Hz-20kHz	..... 75Hz-20kHz	..... 60Hz-20kHz
Power Handling	8Ω ... 100W	..... 150W	..... 175W
Impedance	..... 8Ω/70V	..... 8Ω/70V	..... 8Ω/70V
Sensitivity (1W, 1M)	..... 89dB	..... 89dB	..... 91dB
Dimensions	..... 7.88 diamx7.62d	..... 13.5hx7wx6.38d	..... 17.88hx10.12wx9d
Weight	..... 9lbs/10.5lbs	..... 14lbs/15.5lbs	..... 17lbs/21lbs

See Page 82 for other PA Systems!



Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Monitoring • Nearfield/Studio



Nearfield/Studio Monitors	Frequency Response	Impedance	Power Cap.*	Video Shield	Tweeter	Woofer	Approx. Dimensions HxWxD"	Weight lbs.	Features & Options	Price
Alesis Monitor One	45-18k	4	120W	—	1" Dome	6.5"W	15x10x9	15		\$399/pr
Alesis Monitor Two	40-18k	4	150W	—	1"T/5"M/10"W		14x20x14	34		\$699/pr
Alesis Point Seven	85-22k	4	50W	Yes	1" Dome	5"W	8x12x8	15		\$299/pr
Anchor AN-1001X	65-20k	8	100W	Yes	10mm Dome	4.5"	5.25x8.4x9	6	RM-1 \$55	\$128.00
AUDIX 1A	50-18k	8	100W	Opt \$60	1" Dome	6.5"W	13x9x10	9		\$599.00
AUDIX N-5	40-20k	8	175W	—	1" Cloth Dome	7" Kevlar	15x9.5x11	24		\$1,495.00
AUDIX N-10	40-20k	4	250W	—	1" Cloth Dome	2x7" Kevlar	22.5x10x13.5	45		\$1,995.00
Auratone 5C-STD	140-125k	8	50W	—	—	5" Paper Dome	6.5x6x6.5	7		\$150/pr
Auratone 5CT-STD	90-25k	8	40W	—	10mm Dome	5" Dome	7.5x7x7.5	9		\$230/pr
Auratone 5CTV-STD	9-25k	8	40W	Yes	10mm Dome	5" Dome	7.5x7x7.5	9		\$250/pr
Auratone 5CV-STD	140-125k	8	50W	Yes	—	5" Dome	6.5x6x6.5	7		\$170/pr
Electro-Voice Sentry 100A	48-18k	8	30W	—	Super Dome	8"	17.25x12x11	28	Mounting Bracket SRB-7 \$64	\$582.00
Electro-Voice S-40B	80-20k	4	160W	—	25mm Dome	5.25"	9.8x7x6	13	Mounting Bracket S40MB \$47	\$398/pr
HHB Circle 3 Passive	70-20k	8	60W	Yes	1"	4.5"	11x7x8	9		\$395/pr
HHB Circle 5 Passive	48-20k	8	120W	Yes	1"	8"	17x10x12	22		\$749/pr
JBL 4206	65-20k	8	75W	—	25mm Dome	6.5"	15.4x9x9.5	15		\$198.00
JBL 4208	60-20k	8	75W	—	25mm Dome	8"	17.75x11x9	20.5		\$260.00
JBL 4408A L/R	50-20k	8	100W	—	25mm Dome	8"	17x12x11.6	26	Mounting Bracket MR4408 \$36	\$362.00
JBL 4410A L/R	45-20k	8	125W	—	25mm Dome	5" & 10"	23.5x14x11	43		\$500.00
JBL 4412A L/R	45-20k	4	150W	—	25mm Dome	5" & 12"	23.5x14x11	47		\$750.00

*Power handling capacity determined with either EIA standard RS-426-A power test or IEC standard 268-5 or AES standards & denotes program power unless noted.

HHB Circle 5 Passive



Monitoring • Nearfield/Studio

JBL LSR Series



KRK KRok



Yamaha NS10MS

Tannoy Reveal



JBL Control 5



JBL Control 1

Nearfield/Studio Monitors	Frequency Response	Impedance	Power Cap.*	Video Shield	Tweeter	Woofer	Approx. Dimensions HxWxD"	Weight lbs.	Features & Options	Price
JBL Control 1	70-20k	4	150W	—	19mm Dome	5.25"	9x6x5.6	4	Sold in pairs/priced each	\$154.00
JBL Control 5	50-20k	4	175W	—	25mm Dome	6.5"	15x10x9	10	Mounting Bracket MTC51 SB4	\$269.00
JBL LSR32LR	60-22k	8	200W	—	1" Titanium	12" 5/8"	16x25x12	47		\$1,121.00
KRK KRok	57-19k	8	100W	Opt/\$150	1" Dome	7"	14x12x9.75	18		\$495.00
KRK M6000	62-20k	8	75W	Opt/\$150	1" Inverted Dome	6"	13x9x10	18		\$775.00
KRK M7000B	36-20k	8	150W	Opt/\$150	1" Inverted Dome	7"	14x11x11	25		\$1,175.00
Tannoy Reveal	60-20k	8	50W	Yes	1" Dome	6.5"	14x9x11	16		\$399/pr
Tannoy System 600	55-20k	8	80W	Opt/\$200/pr	Dual Concentric	6.5"	9x15x11	16		\$695/pr
Tannoy System 800	47-20k	8	90W	Opt/\$200/pr	Dual Concentric	8"	11x18x11	23		\$995/pr
Tannoy System 1000	45-20k	8	100W	Opt/\$200/pr	Dual Concentric	10"	26x17x15	37		\$1,795/pr
Tannoy System 1200	40-20k	8	180W	Opt/\$200/pr	Dual Concentric	12"	16x26x16	27		\$2,495/pr
Tannoy System 15DMTII	35-25k	8	200W	Opt/\$200/pr	Dual Concentric	15"	33x22x13	100		\$4,195/pr
Tannoy System 215DMTII	35-25k	4/8	250W	Opt/\$400/pr	Dual Concentric 15" + 15"W		41x34x26	187		\$7,495/pr
Yamaha NS10MS	60-20k	8	60W	—	1-3/8" Dome	7"	8.5x15x8	14	Sold in pairs/prices each	\$239.00

*Power handling capacity determined with either EIA standard RS-426-A power test or IEC standard 268-5 or AES standards & denotes program power unless noted.

Tannoy System 600



Tannoy System 800



Tannoy System 15DMTII



Tannoy System 215DMTII



Tannoy System 1000



Tannoy System 1200



Monitoring • Powered Monitors

Fostex 6301
BEAV Front



Fostex 6301
BEAV Back



JBL EON-10



Hafler
TRM-6



Alesis M1 Active



Audix PH5vs



Audix PH150



Audix PH250



Powered Monitors	Frequency Response	Power	Video Shield	Meters	Connectors	Tweeter	Woofer	Approximate Dimensions HxWxD"	Weight lbs.	Features & Options	Price
AEQ AM03	65-19k	10W	Yes	Phase	XLR	Left, Right, Mid		1U/14"D	14	Headphone Jack	\$795.00
Alesis M1 Active	38-23.5k	60W	Yes	—	TRS/XLR	1" Dome	6.5"W	8.5x15x9.75	20		\$649/pr
AUDIX PH3-s	100-20k	20W	—	—	RCA	.75" Dome	3.5"	5x8x5	8/pr		\$199/pr
AUDIX PH5vs	70-20k	25W	Yes	—	RCA	.75" Dome	5.25"	6x10x7	11/pr		\$299/pr
AUDIX PH150	50-20k	45W	Yes	—	RCA	.75" Dome	5.25"	6x9x9	18/pr		\$479/pr
AUDIX PH250	50-20k	50W	Yes	—	RCA	.75" Dome	2x5.25"	8x16x10	26/pr		\$649/pr
Clear-Com AMS-1022	100-18k	28W	Yes	Yes	XLR	5 Speakers		1U/9"D	9		\$840.00
Electro-Voice Sentry 100EL	45-18k	50W	—	—	TRS/XLR	Dome	8"	18x12x12	33	Mounting Bracket SRB-7 \$64	\$1,120.00
Electro-Voice SX300a	80-20k	300W	—	—	XLR	1" CD	12"	23x16.9x12.3	47	Opt. XP200A Controller \$436	\$1,350.00
Electro-Voice Sb121a	50-250k	300W	—	—	XLR	—	12"	23x16.9x12.3	35		\$1,098.00
Event 20/20	50-20k	150W	—	—	Post Binding	25mm Dome	8"	10.25x14.75x11.75	22		\$199.50
Event 20/20bas	35-20k	70W	Yes	Yes	TRS/XLR	25mm Dome	8"	10.25x14.75x11.75	30		\$499.50
Event TRIA	35-20k	80/40W	Yes	—	TRX/XLR	1" Dome	8"	12x19x11	34/11	Clip Indicator & Power LED	\$999.00
Fostex 6301BEAV	80-13k	10W	Yes	—	TRS/XLR	— — —	4"	6.5x4x5	6	Rack Mt. Single \$87 Dual \$98	\$229.00
Galaxy PA5X140	200-20k	10W	—	—	TRS/XLR	Forward Cooled 5"		7x11x6	1.3	3 Band EQ	\$399.95
Genelec 1029A	70-18k	2x40W	Yes	—	TRS/XLR	.75" Dome	5" Cone	10x6x6	13.2		\$540.00
Genelec 1091Asub	38-85Hz	90W	—	—	TRS/XLR	N/A	8"	20x10x9	22.4		\$699.00
Genelec 1092Asub	33-80Hz	180W	—	—	XLR	N/A	2x8"	25x13x20	66		\$2,149.00
Genelec 1030Amp	50-20k	50W	Yes	—	XLR/XLR	.75" Dome	6.5" Cone	13x8x10	15		\$1,099.00
Genelec 2029A Digital System	70-18k	40W	Yes	—	SPDIF/TRS/XLR	.75" Dome	5" Cone	10x6x6	12.5		\$1,325/pr
Hafler TRM6	55-21k	33/50W	Yes	—	RCA/XLR	1"	6.5"	9x14x12	25	Exclusive TransNova Amp Circuitry/ EQ on rear/Adj. input sensitivity/Clip Indicator	\$625.00
Hafler TRM8	45-21k	75/150W	Yes	—	RCA/XLR	1"	6.5"	11x16x13	35		\$825.00
Hafler TRM10SUB	27-110Hz	200W	—	—	RCA/XLR	—	10"	16x15x16	53	Adj. crossover 40-110Hz/ Vari-input sensitivity	\$695.00
Hafler TRM12SUB	25-110Hz	200W	—	—	RCA/XLR	—	12"	20x19x20	94	90/180/270 phase control	\$795.00
HHB Circle1 Active	33-120k	100W	—	—	XLR	Sub	12"	19x17x17	48		\$1,399.00
HHB Circle 3 Active	70-20k	60W LF 30W HF	Yes	—	RCA/XLR	1" Dome	4.5"	11x7x9	11		\$795/pr
HHB Circle 5 Active	48-20k	120W LF 70W HF	Yes	—	RCA/XLR	1" Dome	8"	17x10x12	28		\$1,399/pr
JBL EON10P	60-16k	60W	—	—	XLR	1" Horn	10"	20x14x12	28		\$653.00
JBL EON 15P	50-20k	130W	—	—	XLR	1.75" Horn	15"	27x17x17	40		\$816.00
JBL EON SUB	40-150Hz	250W	—	—	XLR	N/A	15"	27x17x17	38	Power LED	\$980.00



Genelec
1030A



Genelec 1029A



Genelec 2029A



HHB Circle 3 Active



Monitoring • Powered Monitors



Yamaha MS101H



Yamaha MS202H



Roland DS-90



Roland MA-12C



Samson DMS80

Samson S40 Sub



Tannoy PS 115B Sub



Powered Monitors	Frequency Response	Power	Video Shield	Meters	Connectors	Tweeter	Woofer	Approx. Dimensions HxWxD*	Weight lbs.	Features & Options	Price
Mackie HR824	39-22k	150/100W	Yes	—	TRS/XLR	1" Dome	8.75"	16x10x13	32	Soft Case \$200/pr Overload Indicator	\$749.00
McCurdy AT2656	100-20k	3W	Yes	Yes	WECO strip	1" Horn	10"	2U/7"D	11		\$595.00
McCurdy AMP-100	100-20k	12W	—	—	WECO strip	5 Speaker Full Range		1U/10"D	9		\$695.00
McCurdy AMP-160M	100-20k	12W	—	Yes	WECO strip	5 Speaker Full Range		1U/10"D	9		\$860.00
McCurdy AMP-260	100-20k	12W	—	Yes	WECO strip	5 Speaker Full Range		2U/10"D	11		\$1,085.00
McCurdy AMP-400	100-20k	10W	—	—	WECO strip	4 Channel/4 Speaker		1U/10"D	9	4 Headphone Jacks	\$750.00
Roland MA-8	80-18k	8W	Yes	—	TRS/Min/ RCA	1.9"	4"	10x6x6	5	Bass/Treble Control & Power LED	\$99/pr
Roland MA-12C	70-17k	10W	Yes	—	TS	N/A	4"	9x7x6	6	Bass/Treble Control & Power LED	\$195.00
Roland DS-90 Digital	30-18k	60/30W	—	—	TRS/XLR/RCA/ Optical	1" Dome	6.5" Cone	15x9x13	25	Optical & Coaxial Digital Inputs & Power LED	\$595.00
Samson DMS80	40-20k	40W	Yes	Yes	RCA/TS	1" Dome	5.25"	9x6x4	12	External Amp & 5 Band EQ Included	\$299/pr
Samson S40 Sub	30-130k	50W	—	—	RCA	N/A	6.5"	30x10x10	35	Works w/DMS80	\$169.99
Sony SMS-1P/B	N/A	15W	—	—	TRS/XLR/RCA	4" Full Range		9x6x6	7	Power LED	\$315.00
Tannoy Reveal Active	62-20k	50W	Yes	—	Posts	1" Dome	6.5"	14x9x11	16.7		\$899/pr
Tannoy System 600A	52-20k	80W	Yes	—	Posts	N/A	6.5"	9x15x11	20.9	Shielding +200	\$1,395/pr
Tannoy System 800A	44-20k	90W	Yes	—	Posts	N/A	8"	11x18x11	23	Shielding +100	\$1,895/pr
Tannoy PS110B Sub	31-130k	110W	—	—	XLR	N/A	10"W	18x12x17	33	Shielding +120	\$499.00
Tannoy PS115B Sub	29-130k	130W	—	—	XLR	N/A	15"W	18x20x21	61	Shielding +131	\$1,299.00
Ward-Beck AMS-4	100-20k	12W	—	—	Screw Terminals	3-Full Range Speakers		1.75x19x10.75	10	4 Analog/Digital Inputs	\$1,275.00
Ward-Beck QSP-2	100-20k	12W	—	—	Screw Terminals	2-Full Range Speakers		1.75x19x10.75	10	2 Analog Inputs	\$595.00
Ward-Beck QSP-2D	100-20k	12W	—	—	BNC	2-Full Range Speakers		1.75x19x10.75	7.3	1 AES Digital Input	\$675.00
Wohler AMP-1A	80-16k	10W	Yes	—	XLR/RCA	5 Speakers		1U/12"D	14	Meter Options are available please call for further information and pricing!	\$715.00
Wohler AMP-2A	80-16k	11W	Yes	Yes	XLR/RCA	5 Speakers		2U/11"D	18		\$1,095.00
Wohler AMP1-DA	80-16k	10W	Yes	Yes	XLR/BNC	5 Speakers		1U/12"D	14		\$1,700.00
Wohler AMP2-DA	80-16k	11W	Yes	Yes	XLR/BNC	5 Speakers		2U/11"D	18		\$1,950.00
Yamaha WS20S	70-15k	20W	Yes	—	TS	1"	4.75" Cone	5.5x11x18	8.8	Front Volume Control	\$249.00
Yamaha WS60S	20-20k	60W	Yes	—	TS/XLR	1" Horn	8" Cone	17.5x10.5x9.5	22	Front Volume Control	\$599.00
Yamaha MS101H	75-18k	10W	Yes	—	TS/RCA	N/A	4" Cone	6x8x9	4.75		\$159.00
Yamaha MS202H	70-18k	20W	Yes	—	TS/RCA	N/A	2x4" Cone	22.5x7.5x8.5	8.5		\$269.00
Yamaha MSP5	50-40k	40W	Yes	—	TRS/XLR	1" Titanium	5"	11x7x9	17		\$299.00
Yamaha MSP10	40-40k	120/65W	Yes	—	XLR	1" Dome	8"	17x11x13	45		\$749.00
Yamaha SW10	25-150k	160W	—	—	XLR	N/A	10" Cone	19x13x19	58	Front Volume Control	\$849.00

Wohler AMP-1A



Wohler AMP-2A



Wohler AMP1-DA



McCurdy AMP-100



McCurdy AMP200



Ward-Beck AMS-4



Ward-Beck QSP-2



Yamaha MS60S



Monitoring • Sound Reinforcement

JBL EON15



Electro-Voice SX100



Electro-Voice SX300P



Electro-Voice SX500P+



Electro-Voice SX-80



Sound Reinforcement/Loudspeakers	Frequency Response	Impedance	Power RMS	Sensitivity dB	Note 1 Drivers	Enclosure Style	Approx. Dimensions HxWxD"	Weight lbs.	Features & Options	Price
Community CSX25S2	70-18k	8	100W	97.5	12"W/PH Horn	Blk. carpeted wood	18.25x15x13.5	40		\$376.00
Community CSX35S2	60-18k	8	150W	99.5	15"W/PH Horn	Blk. carpeted wood	23.75x17.25x13.25	52		\$449.00
Community CSX52S2	40-18k	4	200W	98	15"W/6.5"M/PH Horn	Blk. carpeted wood	33.5x18x18	95		\$915.00
Community CSX57S2	40-18k	4	300W	102	2x15"W/1"C/PH Horn	Blk. carpeted wood	33.5x26.75x8	122		\$944.00
Electro-Voice SX80	65-20K	8	175W	92	8"W/1"CD	Molded Polymer Wedge	15.75x1.44x8.75	18		\$318.00
Electro-Voice SX100+	60-25k	8	200W	98	12"W/1"CD	Molded Polymer Wedge	23x17x12.25	32	Handles & Stand Adpt. Incl.	\$518.00
Electro-Voice SX300P	60-25k	8	300W	100	12"W/1"CD	Molded Polymer Wedge	23x16.9x12.3	39	XP200A Control \$436	\$798.00
Electro-Voice SX500+	60-20k	8	400W	100	15"W/1"CD	Molded Polymer Wedge	33X26.5X17.63	69		\$998.00
Electro-Voice SB121	50-500k	8	300W	95	12"W	Molded Polymer Wedge	23x16.9x12.3	33	XP200A Control \$436	\$398.00
Electro-Voice Eliminator M	77-20k	8	350W	99	15"W/1"CD	Carpet/Road TM Wood	16x25x19	52	Floor Monitor	\$698.00
Electro-Voice Eliminator	50-20k	8	350W	99	15"W/1"CD	Carpet/Road TM Wood	30x17x24	74	Stand Adapter Incl.	\$658.00
JBL Control 23	85-22k	8	50W	86	3.5" 90° Horn	Paintable/weather resistant	7.6x5.5x4.4	4	Includes mounting hardware- Opt- Ceiling Mt. adapter and surface mt.	\$108.00
JBL Control 25	80-16k	8	150W	88	5.25" 90° Horn	Paintable/weather resistant	9.3x7.4x5.8	5		\$140.00
JBL Control 28	60-16k	8	175W	92	8" 90° Horn	Paintable/weather resistant	15x11x8.6	12		\$245.00
JBL EON10	70-15k	8	125W	92	10"W/1"CD	Molded Polymer Plastic	19.4x14x12	20	Opt- EON MMIX 10 Channel Stereo Mixer \$679	\$469.00
JBL EON15	60-15k	8	250W	100	15"W/1.75"CD	Molded Polymer Plastic	27x17.5x16.6	36		\$599.00
JBL EON 1500	55-16K	8	225W	98	15"W/1"CD	Molded Polymer Plastic	27x17x17.5	38		\$458.00
JBL MR918	35-4.5k	8	300W	100	18"W	Tolex Covered OSB	41x28x18	92		\$863.00
JBL MR922	60-17k	8	250W	100	12"W/2"CD	Tolex Covered OSB	23x17x11	49		\$717.00
JBL MR925	60-17k	8	250W	101	15"W/2"CD	Tolex Covered OSB	26x19.5x14	57		\$783.00
JBL MR926	38-17k	8	250W	102	12"W/2"CD	Tolex Covered OSB	41x28x18	110		\$941.00
JBL MR935	38-18k	8	250W	100	15"W/8"M/2"CD	Tolex Covered OSB	28x28x18	90		\$998.00
JBL MR938	38-18k	8	250W	100	18"W/10"M/2"CD	Tolex Covered OSB	32x28x18	99		\$1,161.00
Key-	Note 1 - W=Woofers M=Midrange T=Tweeter PH=Piezo Horn CD=Compression Driver w/Horn									

Electro-Voice Eliminator



JBL MR Series



JBL Control 28

JBL Control 25



Monitoring • Sound Reinforcement

Sound Reinforcement/Loudspeakers	Frequency Response	Impedance	Power RMS	Sensitivity dB	Note 1 Drivers	Enclosure Style	Approx. Dimensions HxWxD"	Weight lbs.	Features & Options	Price
Klipsch KP-201 II-B	50-20k	8	125W	96	12"W/2"CD/1"T	Painted Plywood	22x16x13	48		\$551.00
Klipsch KP-250 II-A	65-20k	8	250W	102	12"W/2"CD/1"T	Painted Plywood	22x16x13	60		\$776.00
Klipsch KP-301 II-A	45-20k	8	400W	101	15"W/2"CD/1"T	Painted Plywood	32.5x21x17	90		\$976.00
Tannoy i 8	85-22k	8	130W	92	8"W	Molded Polymer Trapezoid	15.3x11x11	19	Recommended/TX1 Controller \$499.00	\$699.00
Tannoy i 12	45-25k	8	200W	97	12"W	Molded Polymer	20x15x16	44	Recommended/TX2 Controller \$499.00	\$1,199.00
Tannoy i 15	35-22k	8	250W	99	15"W	Molded Polymer	24x19x17	53	Recommended/TX2 Controller \$499.00	\$1,599.00
Tannoy T300	55-22k	8	300W	97	12"W	Molded Polymer Wedge	24x15x16	77	Includes TX3 Controller	\$2,525.00
Tannoy T40	34-160k	8	300W	96	15"W	Molded Polymer	28x18x18	60		\$750.00
Tannoy B400	60-300k	8	300W	101	15"LF	Birch Plywood	24x23x27	88		\$1,175.00
Tannoy B475	28-240k	8	300W	98	18"LF	Birch Plywood	24x23x27	86		\$1,125.00
Tannoy B950	28-240k	4	600W	101	2x18"W	Birch Plywood	24x46x27	168		\$2,050.00
Yamaha S112IV	55-16k	8	150W	97	12"W/2"CD	Blk. Carpet/Plywood	16x25x13	43	Bass Reflex Design	\$385.00
Yamaha S115IV	55-16k	8	250W	99	15"W/2"CD	Blk. Carpet/Plywood	19x28x14	61		\$415.00

Key-- Note 1 - W=Woofers M=Midrange T=Tweeter PH=Piezo Horn CD=Compression Driver w/Horn



Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Broadcasters General Store phone 352-622-7700

World Radio History

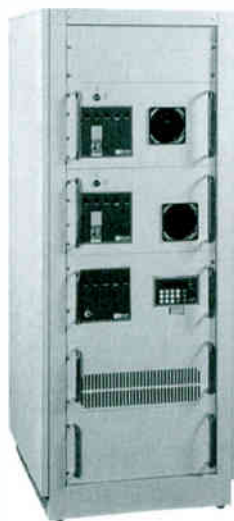
Power Conditioning

Best Power

Best Power Patriot Pro UPSs 400 (1000VA) provide Internet/Intranet-ready advanced power protection for workstations, with telephone/10Base-T network surge suppression. Includes free power management software.

Best Power Fortress UPSs 750VA (3kVA) deliver pure, sine-wave power protection for network computing. Rackmount units also available 750VA (2250VA). Free power management software included.

Best Power Fortress Rackmount UPSs 750VA (2250VA) deliver pure, sine-wave power protection for network computing, with advanced, new features. All units include free power management software.



Best Power UNITY/I Single-Phase UPSs 3kVA/kW (8kVA/kW) provide world-ready flexible power protection for midrange and client/server computing, with worldwide voltage and frequency compatibility.

Best Power's 610 Series UPS 700VA (10kVA) provides reliable on-line, high-frequency double-conversion power protection for mission-critical applications, overcoming spikes, sags, surges, noise and blackouts.

Best Power FERRUPS uninterruptible power systems UPS, 500VA (18kVA) furnish "bulletproof" reliability in configurable power protection for computers and telecommunications equipment. Patented ferroresonant technology overcomes spikes, sags, surges, noise, and lightning. New standard features in the 2kVA (7.5kVA) ranges include lower output impedance, hot-swappable batteries, easy-roll casters, easier-to-use interface, and external battery connector. FERRUPS offers suppression of har-



monic currents that can disrupt other equipment; redundant circuitry that provides high fault-tolerance and optimum uptime; precision voltage regulation with no battery discharge down to 38% below nominal (depending upon

load); and more than 80 user-programmable diagnostic and communications functions. Rackmount units are available. FERRUPS has won Midrange Systems' "Buyer's Choice" award six out of the last eight years. FERRUPS includes free Best Power CheckUPS (II Suite v3.x power management software with connectivity cable, and is SNMP/WEB BestLink™-ready for remote management. FERRUPS is covered by a two-year limited warranty, plus an exclusive limited "Double Lifetime" warranty.

Best Power UNITY/I Three-Phase UPSs 10kW (220kW) provide superior three-phase power protection at lowest life-cycle costs. Patented design enables up to 97% efficiency.

Please call Broadcasters General Store for a Best catalog.

Model	Description	VA/Watts	Runtime full/ Half Load(min.)	Volts In/Out	Price
PPO400U	Patriot® for PCs	400/250	5/12	120	\$289.00
PPO750U	Patriot® for PCs	750/470	5/12	120	\$389.00
0520-0750-U*	Fortress® for network	750/450	6/19	120	\$499.00
0520-1050-U*	Fortress® for network	1050/670	6/19	120	\$669.00
0520-1425-U*	Fortress® for network	1425/950	5/17	120	\$899.00
FE850DDA	Ferrups® for lg. systems	850/600	11/28	120	\$1,229.00
FE1.15KDDA	Ferrups® for lg. systems	1.15/800	18/48	120	\$1,789.00
FER2.1	Ferrups® for lg. systems	2.1kVA/1.5kW	24/58	120	\$3,399.00

* Add \$100 for rackmount version

EDCO

EDCO EMC 240B

The EDCO EMC 240B is a rugged, highly reliable panel surge protector for 120/240V I/O applications. It features totally solid-state construction with two advanced, metal oxide varistors (MOV), each capable of 40,000 amps of surge current. After a surge, the suppressor automatically recovers and is ready for the next surge.



EMC-240B \$165.00

EDCO has a wide selection of power protection, please call to request a complete catalog.

EDCO LMC and LTL Series



The EDCO LMC and LTL Series surge suppressors are designed to be hardwired or cord connected, and are ideal for protecting automated equipment, computer hardware, and mainframes. Surges up to 40,000 Amps per phase.



Model No.	Electrical Service	Price
LMC240A	120V/240V; 1PH; 3Wire	\$391.25
LMC208Y	120V/208V; 3PH; 4Wire	\$417.38
LTL-20	120V/240V; 1PH; 3Wire	\$438.38
LTL-30	120V/240V; 1PH; 3Wire	\$438.38

EDCO BMC Series

The EDCO BMC Series is a rugged, highly reliable main or branch distribution panel surge protector. Installed in parallel, the BMC Series offers maximum protection for major facilities such as office buildings, entertainment complexes, schools, etc. In addition it is ideal for protecting computer installations and other sensitive electronic equipment. The BMC offers full redundancy which is monitored with 6 diagnostic indicator lights. 40KA to 125KA Surge Capacity • 5 year warranty • 6"Wx8"Hx4"D

Model No.	Panel Application	Electrical Service	MAX Surge	Price
BMC208Y-75R	Branch/Main	102/108V; 3 PH-WYE, 4W + Grnd.	75,000 A/PH	\$627.38
BMC208Y-125R	Main	102/108V; 3 PH-WYE, 4W + Grnd.	25,000 A/PH	\$811.37
BMC408Y-125R	Main	277/480V; 3 PH-WYE, 4W + Grnd.	125,000 A/PH	\$997.50

EDCO SRS-232

The EDCO SRS-232 utilizing silicon avalanche clamp devices, is intended as a secondary level surge protector for IEEE Std. RS-232C peripheral devices.



SRS-232-25	Interface with 25 pin connectors, . protects pins 2-8 and 20	\$61.88
SRS-232-9	Interface with 9 pin connectors, . protects all pins	\$61.88



Power Conditioning

ETA Systems

ETA conditioned power distribution units are designed to prevent damage to sensitive equipment from sudden voltage spikes and potentially damaging power surges as well as from EMI/RFI interferences. The sequencing units are specifically designed to protect and filter any electronic equipment that requires a time delayed power up and down. 1U, 120V standard, 15 Amps per unit, with most available in 220/230/240V with IEC-320 connectors.



ETA Systems			
AC Audio Conditioned Power Distribution (15 amp, 1800 watts models)			
Model No.	Description	lbs.	Price
PD8	8 U-grounded Edison AC outlets	7	\$79.00
PD8L	8 U-grounded Edison AC outlets with dual retractable rack illuminators, high/low on/off switch	7	\$99.00
PD9L	9 U-grounded protected AC outlets (1 "always on" front, 8 back) to accommodate up to 7 UL approved voltage converters, dual retractable rack illuminators, high/low on/off switch	8	\$160.00
PD9LV	9 U-grounded protected AC outlets (1 "always on" front, 8 back) to accommodate up to 7 UL approved voltage converters, dual retractable rack illuminators, high/low on/off switch, LED voltmeter	8	\$240.00
New Pro Series— Single Rack Space (20 amp, 2400 watts models)			
PD11P	11 U-grounded protected AC outlets (8 back switched, 2 back and 1 front "always on") spike and surge protection, EMI/RFI filtration	10	\$220.00
PD11VP	11 U-grounded protected AC outlets (8 back switched, 2 back and 1 front "always on"), "always on" digital voltmeter, spike and surge protection, EMI/RFI filtration	10	\$330.00
PD11LP	11 U-grounded protected AC outlets (8 back switched, 2 back and 1 front "always on") spike and surge protection, EMI/RFI filtration, dual retractable rack illuminators, high/low on/off switch	10	\$250.00
PD11LVP	11 U-grounded protected AC outlets (8 back switched, 2 back and 1 front "always on"), "always on" digital voltmeter, dual retractable rack illuminators, high/low on/off switch, spike and surge protection, EMI/RFI filtration	10	\$380.00
PD11SP	9 U-grounded protected AC outlets (8 back switched, 2 back and 1 front "always on"), 4 stage sequential power up/down, spike and surge protection, EMI/RFI filtration	10	\$490.00
PD11LVSP Sequential	9 U-grounded protected AC outlets (8 back switched, 2 back and 1 front "always on"), "always on" digital voltmeter, dual retractable rack illuminators, high/low on/off switch, sequential power up/down, spike and surge protection, EMI/RFI filtration	10	\$650.00

Equi-Tech Balanced Power Rack Systems

The Equi-Tech Balanced Power Rack Systems range in size from 10- to 50-amp output (@120V) and conveniently mount in equipment racks utilizing only 2 or 3 rack spaces. The systems are built around a very high quality patented toroid type isolation transformer designed to operate at a very low temperature and emit little or no acoustical noise. The low magnetic strayfield chassis design allows these systems to be placed near sensitive electronics in a rack without causing interference. All models are ETL listed and provide transient surge and GFCI protection.



The Equi-Tech Balanced Power Wall Cabinet Systems are conveniently packaged to make hard-wiring AC power into a studio or production facility an easy task with a minimum amount of effort and time. The systems are ruggedly built and feature the same precision wound patented toroid type isolation transformer design as used in the rack-mounted versions. Wall systems provide an easy way to blanket an entire facility with balanced technical power without using up any valuable rack space. 30"Wx42"Hx8"D

Model No.	Output V	Surge Protection	Capacity	#Circuits	Input Line	Plug Type	Rack Unit	lbs.	Price
ET1R	120VCT	240 Joules	10A	1-10	15A 120V	NEMA 5-15	2	29	\$889.00
ET1.5R	120VCT	240 Joules	15A	1-15	15A 120V	NEMA 5-15	2	68	\$1,339.00
ET2R	120VCT	240 Joules	20A	1-20	20A 120V	NEMA 5-20	2	71	\$1,539.00
ET3R	120VCT	240 Joules	30A	2-15	20A 208/240V	NEMA 6-20	3	92	\$2,089.00
ET4R	120VCT	240 Joules	40A	2-20	20A 208/240V	NEMA 6-20	3	117	\$2,639.00
ET5R	120VCT	240 Joules	50A	2-15 & 1-20	30A 208/240V	NEMA L6-30	3	117	\$3,189.00

Model No.	Output V	Surge Protection	Capacity	#Circuits	Input Line	GFCI Protection	lbs.	Price
ET5W	120VCT	240 Joules	50A	3-20A	30A 208/240V	• • •	286	\$4,359.00
ET7.5W	120VCT	240 Joules	75A	4-20A	40A 208/240V	• • • •	304	\$5,139.00
ET10W	120VCT	240 Joules	100A	5-20A	50A 208/240V	• • • • •	321	\$5,889.00
ET12.5W	120VCT	240 Joules	125A	6-20A	70A 208/240V	• • • • • •	350	\$6,559.00

Equi-Tech Rack System and Wall Cabinet Systems Options:

- SI Super Isolator Option— recommended for digital equipment applications. (N/AET4R /ET5R) Rack \$179/ Wall \$229
- E European models designed to run equipment requiring 230V 50/60Hz power from a 230V source. Rack & Wall \$229
- EA Euro-American option systems are equipped with a 50/60Hz step-down transformer that converts a 230V supply to 120V balanced. (Option available only for rack systems excluding ET4R and ET5R) \$329
- F EMI/RFI filter option— is ideal for digital applications, zero leakage current. (UL/CSA) \$179

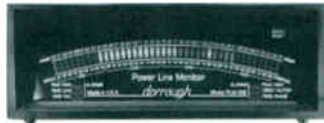
Equi-Tech Balanced Power Wall Cabinet Systems



Power Conditioning

Dorrrough PLM-120

Power Line Monitor



The Dorrrough PLM-120 provides professional facilities with complete, specific, dynamic, and 'moment-to-moment' AC power line quality information needed to resolve daily engineering issues ranging from proper conditioning operation, to proper UPS changeover functioning, to the isolation of faults in facility power feeds and circuits. Following the 'CBEMA Curve' for proper AC line operation, the unit captures, logs, and alarms for all power quality violations. RS-232C access to non-volatile event logs assessable via WIN95.

PLM-120 Power Line Monitor \$650.00

Furman PL-8 Power Conditioner/Light Module



The Furman PL-8 power conditioner and light module has eight switched AC outlets on the rear panel and two slide-out light fixtures with a dimmer control. The PL-8 protects your delicate electronic equipment by combining a high voltage surge and transient suppresser with an RFI/EMI interference filter. The PL-PLUS is an enhanced version of the PL-8. On the front panel it provides a display of AC line voltage by means of a 20 LED bargraph meter, reading from 90 to 128 volts in two volt steps. It also features a higher 15 amp rating, with a heavy-duty 10 foot power cable.

PL-8 Power Conditioner/Light Module, 120V, 15A \$159.00
 PL-PLUS Power Conditioner/Light Module/AC Voltmeter, 120V, 15A \$229.00
 PL-PRO Power Conditioner/Light Module/PRO Series, 120V, 20A \$399.00

Juice Goose Rackpower Series



The Juice Goose Rackpower Series are rack mounted power distribution panels with 120 volt power outputs and 15 amps of power (1800 watts) in all steel chassis with spike protection, and super discriminating EMI RFI filters.

Rackpower 100 Eleven outputs and a BNC connector for Littlite \$240.00
 Rackpower 200 Ten outputs with two dimmable pull out tubular lights and color-coded 20 LED input voltage meter. \$250.00



Broadcasters General Store

2840 S. E. 52nd Street
 Ocala, Florida 34480-7500

1-352-622-7700

Nigel B Power Strips



The Nigel B Front Mounting PowerStrip has 6 outlets along with the master switch and overload device. In addition it features full surge and EMI/RF protection and an 8 foot cord.

FP-6SP Front Mounting 6 Outlet PowerStrip \$119.95

Nigel B Guard Protected Manual Sequencing PowerStrip



The Nigel B Guard Protected PowerStrip allows you to sequentially control the on/off functions. Six of its eight outlets individually controlled by its own front mounted switch, each switch including the master switch is guard protected by a lift off clear plastic cover, so you cannot accidentally turn the device off. In addition, it features full surge and EMI/RF protection and an 8 foot cord.

GP8SP Guard Protected Manual Sequencing PowerStrip \$239.95

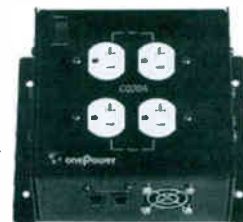
One Power CQ Series

Sequenced Power Activation Systems



CQ-1500

The Juice Goose CQ Series are Sequenced Power Activation Systems. They feature a three position switch on the front of the chassis which is active only if there is no control cable on the Sequence Signal Input connector. When active, this switch allows the unit to sequence up or sequence down and to control the sequencing of any unit connected to the Sequence Signal Output connector. The manual on switch position allows the CQ to be manually operated, overriding the control circuit in the unlikely event of a fault or failure. Lights on the front of the CQ Series allow monitoring of the unit. The Processor light will blink to indicate that the control processor is functioning. The Pod lights are illuminated as a result of contact closure by the CQ relays, indicating that actual relay closure has occurred.



CQ-2200

CQ-1500 15A, 10 outputs, 3 sequence events \$367.00
 CQ-2000 20A, 2 outputs, 1 sequence event \$240.00
 CQ-2200 20A, 4 outputs, 2 sequence events \$250.00

Whirlwind Rackable Power Strips



Whirlwind rackable power strips have an on/off switch • a resettable circuit breaker • and 15 amp capacity.

AC6R Six AC outlets \$54.00
 AC6RSP AC6R with surge protection \$79.80
 AC4R2F Four outlets on rear, two on the front \$53.00

Power Conditioning

PolyPhaser Cellular Lightning Block Protector

5PolyPhaser's lightning filter protection products include weatherized devices from transmit- and receive-only applications in the 800Mhz to 1.0Ghz frequency range. The non-gas tube, maintenance-free protectors exhibit the industry's best RF and surge performance. The Micro Lightning Filter Series is dc blocked for maximum equipment protection, and is available in various connector configurations. The devices protect single or multi-channel transmitters and receivers in



such markets as Specialized Mobile Radio, Personal Communications Services, paging and cellular services.

- IS-CLF50HN N connector (female)..... \$111.95
- IS-CLF50LN N connector (female), surface/bulkhead mounting \$94.95
- IS-CLF50HD DIN connector (female) \$156.95
- IS-CLF50LD DIN connector (female) \$156.95

Add Suffix: -MA for male antenna port connector or -ME for male equipment port connector

Radio Design Lab TS-1D Transient Suppressor

The Radio Design Lab TS-1D Transient Suppressor is intended to protect audio input and output circuits from the effects of transients induced on the audio lines. It's great anywhere you need immunity from: electrostatic discharge • induced transient voltage • RF interference • electromagnetic pulse • and need CE compliance.



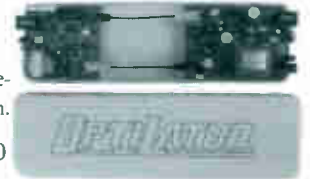
TS-1D Transient suppressor \$106.00

Stormin Protection

Telephone Protection

Stormin Protection Products Optilator is a telephone optically isolated surge protection system.

Optilator Telephone Protection \$250.00



Samson Powerstrip Power Distribution Systems



Samson Powerstrip Power Distribution System supplies 8 AC outlets on the rear panel and one unswitched front panel outlet. It features: AC noise filtering • surge and spike protection • and 15 amp circuit breaker.

PS9 Powerstrip Power Distribution System \$79.99

The Samson Powerbrite™ is a combination power distribution and lighting system. Features include: adjustable pull-out tray with silent fluorescent light • logo or company name can be customized for backlit front panel inlay • 8 rear panel outlets accommodate both AC plugs and wall-mount power supplies • unswitched front panel outlet for constant power applications • and 15 amp circuit breaker.

PB9 Powerbrite Power Distribution and Lighting System \$159.99

The Samson Powerbrite™ Pro Rack Power Distribution, Metering and Lighting System has a large, easy-to-read front panel metering system that includes a 10-segment voltmeter to ensure incoming voltage is within range of the unit's operating parameters. A 10-segment current meter warns when the unit is approaching circuit breaker disconnect status. Features include: adjustable pull-out tray with silent fluorescent lamp • logo or company name can be customized for backlit front panel inlay • 6 rear panel AC outlets for both plugs and wall-mount power supplies • front panel unswitched outlet for constant power applications • 15 amp circuit breaker • and rear-panel mini-XLR jack & switch for connecting supplied gooseneck lamp.

PB7 Powerbrite Pro Power Distribution, Metering and Lighting System \$199.99



TrippLite

TrippLite BC Personal Battery Back-Up Systems

TrippLite BC Personal Battery Back-Up Systems guard against blackouts, brownouts, surges and spikes • Compact tower style case has small footprint (9"x5"x6") • \$25,000 Ultimate Lifetime Insurance on connected equipment • 2 Year Warranty

- BCPERS300 ... Basic PC protection, 300VA, 2 outlets \$125.00
- BCPERS450 ... Basic PC protection, 450VA, 2 outlets \$139.00
- BCPERS600 ... PC & network servers, 600VA, serial port, 4 outlets \$209.00
- BCInternet300 Internet-ready for PC's, 300VA UPS, modem/fax protection, 2 outlets \$125.00

TrippLite Isobar

The TrippLite Isobar line features premium diagnostic LED indicators that alert you to loss of AC power, damage to protection circuitry and improper outlet wiring. \$25,000 Ultimate Lifetime Insurance protects Isobar and connected equipment against surge damage, including lightning. Lifetime Product Warranty.



- ISOBAR4Ultra 4 outlets, 6' cord, 1050 joule rating, handles spikes to 84,000 amps \$89.95
- ISOBAR6Ultra 6 outlets, 6' cord, 1200 joule rating, handles spikes to 96,000 amps \$104.95
- ISOBAR8Ultra 8 outlets, 12' cord, 1200 joule rating, handles spikes to 96,000 amps \$116.95
- ISOBAR8RM Same as ISOBAR8Ultra but a rackmount unit \$129.50



Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Recorders/Players • Analog Carts

Audi-Cord DL series



The Audi-Cord DL series cart machine is an excellent value. The playback decks have replay lock out, audio muting (secondary tone switchable) and automatic motor turn off. The record decks have analog VU meters, auto-

matic meter switching from record to play and an optional timer. The DL series also has a dual transport, Record/Play available. This machine will allow you to make dubs or stereo to mono mix dubs.



DL-PM	Mono Playback, 2Cue	\$1,100.00
DL-PS	Stereo Playback, 2Cue	\$1,200.00
DL-RM	Mono Rec/Play, 2Cue	\$1,600.00
DL-RS	Stereo Rec/Play, 2Cue	\$1,850.00
DL-RM-T	Mono Rec/Play, 2Cue, & Timer	\$1,700.00
DL-RS-T	Stereo Rec/Play, 2Cue, & Timer	\$1,950.00
184-0009	Tertiary Tone Detector	\$40.00
185-0007	8kHz Ter Osc (Rec)	\$60.00
185-0006	Rack shelf	\$65.00

Fidelipac Dynamax CTR10

The Fidelipac Dynamax CTR10 series cart machine is ruggedly constructed with a precision DC capstan motor and PLL control circuitry for excellent speed stability. Inputs and outputs are via XLR's or 9 pin "D" connectors. Remote control, tallies and FSK data interfacing are accessed thru a 50 pin "D" connector.



CTR11 ... Mono Reproducer	\$1,835.00
CTR12 ... Stereo Reproducer	\$1,950.00
CTR13 Mono Recorder/Reproducer ...	\$2,140.00
CTR14 Stereo Recorder/Reproducer ...	\$2,295.00
ESD10 Eraser/Splice Detector	\$1,550.00



Audiopak Carts



Audiopak A-2s come with a black casing and 605 ferric oxide tape for mono applications, AA-3s come with high-output, low-distortion 613 tape in the familiar dark blue "neutral-design" casing, or "digital-ready" AA-4s with 614 tape, a premium oxide formulation designed for

superior high frequency saturation headroom, in a light blue casing with the same neutral design as the AA-3. Audiopak IA-II (previously ITC/Scotchcart) broadcast cartridge utilizes a passive system of internal tape guidance, which allows your cartridge machine to do a precise job.

Audiopak Carts Priced Each-Sold in 24 Packs				Audiopak IA-II previously ITC/Scotchcart	
Broadcast Cartridge	A-2	A-3	A-4	IA-II Priced Each-Sold in 10 Packs	
Bulk Empty	\$3.85	\$5.25	N/A	AA-0	\$9.88
Empty	\$4.19	N/A	N/A	AA-10/20/40/ 70/100Seconds	\$10.03
10/20/35/40/50/65/ 70/90/100 Seconds	\$5.00	\$6.10	\$7.00	AA-2.5/3.0/3.5/ 4.0/4.5 Minutes	\$11.63
140Sec/2.5/3.0/ 3.5/4.0/4.5 Minutes	\$5.65	\$6.85	\$7.75	AA-5.0/5.5/6.5/ 7.5 Minutes	\$13.23
5.0/5.5/6.0/6.5/ 7.5/8.5/10.5 Minutes	\$6.35	\$7.90	\$9.00		

Recorders/Players • Reel to Reels

Otari MX5050

The Otari MX5050 series features: built in mini-autolocator with three one-touch cue point memories, search zero and repeat functions. The transports are very smooth with microprocessor controlled logic, motion sensing and dynamic braking. Standard features include a 37 pin parallel I/O, $\pm 20\%$ speed control, transformerless active balanced inputs and outputs and reel size switches for both take-up and supply reels. The BQ-III now features gapless seamless punch in and punch out as well as a rehearse mode.



MX5050B-III	1/4" 2-Channel Half Track ...	\$4,452.00
MX5050BQ-III	1/4" 4-Channel Quarter Track ..	\$7,636.00
RK-2B	Rack mount kit for B-III and BQ-III ..	\$84.00
ZA-52L-22	Metal roll-around floor stand ..	\$491.00

Tascam 32

The Tascam 32 series features 7" or 10.5" reel capacity, digital tape counter w/return to zero, pitch control, dump/edit function, cue capability for monitoring at all times, bipolar power supply, DC motors, full motion sensing with dynamic reel braking and permalloy heads. Phono ins and outs at -10dBV.



32	1/4" half track two speed (7.5/15ips) ...	\$2,699.00
DX-2D	2 Channel dbx Type I noise reduction ..	\$515.00
RC-70F	Full function transport remote	\$150.00
RM-300 ...	Rack mount for 32	\$70.00
RTS-15	Deluxe roll around transport stand	\$325.00

Tascam BR-20

The Tascam BR-20 has balanced +4dBm ins and outs with all major calibration controls easily accessible through the front panel. The transport is precision servo controlled for smooth operation and accurate real time counter readings. It has a $\pm 12\%$ pitch control, direct time locate, built-in monitor speaker, three DC motors, a parallel remote port, three presettable locate points plus zero and built in rack mounts.



BR-20	2 track reel to reel	\$3,599.00
MA20	Mic amp kit for BR-20	\$110.00
RC-402....	Transport remote control	\$270.00
RTS-15	Deluxe roll around transport stand	\$325.00

Recorders/Players • Cassette & CD Duplicators

MicroBoards StartREC™

Digital Audio Editin System w/Multidrive CD-R Duplication Capability
 The StartREC offers audio professionals advanced hard disk editing tools, and the ability to create simultaneously up to four custom audio CD's in a convenient rackmountable or desktop configuration. Suited for a variety of applications, the StartREC puts power and versatility at your fingertips. If your production environment requires digital editing of audio tracks and short run CD-R duplication, the StarTEC is the total CD-R disc production solution for you.

StartREC 400 \$3,995.00

MicroBoards Comet

Automated CD Recordable Media Printing System
 The Comet is an automated CD recordable media printing system. A simple interface consisting of two LED's and one reset button, while the Sure Thing editing software and intelligent printer drivers included with the system complete a robust CD printing solution. Comet supports the Signature series of Primera ink jet CD-R printers, capable of producing vibrant 1200x1200 dpi colors on various types of printable media, including MicroBoards Technology's PrintWrite media (10 included).

Comet 50 Disc Input and Output Hoppers \$2,995.00

MicroBoards Inferno

CD-R and DVD Recordable Duplication Station
 The Inferno is a stand-alone CD Recordable/DVD tower duplication system using the new 8X CD recording speed. Units are expandable with Master-Slave configurations, and provide the user easy one touch operation. Up to 400 discs can be created simultaneously via the VMI card (Versatile Media Interface), which also allows for a direct upgrade path to DVD. The Inferno will interface to PC or Mac providing complete control of the mastering and duplication process, and can also be adjusted to record at 2X, 4X, or 8X speeds.

Inferno CD-R and DVD Recordable Duplication Station \$5,785-\$1252

Tascam CD-D4000MKII Professional CD Duplicator

The Tascam CD-D4000MKII is a stand-alone 1x1 duplicator. Features include: 8x, 6x, 4x, 2x or 1x write speed • copies both CD-R and CD-RW discs • CD playback mode • and weighs 13.5lbs - 2U.

CD-D4000MKII Professional CD Duplicator \$1,299.00

Tascam T-3000 Cassette Duplicator

The Tascam T-3000 Cassette Duplicator has three independent cassette decks in one unit, 2 slaves and 1 master/slave. Duplication speed is 4 times normal speed, approximately 7.5 minutes with a C-60 type tape, with both sides of a tape being copied in one pass. Features include: normal/chrome auto switching • long-life ferrite heads • multiple (10 unit) cascade operation • and 3U & 14.3lbs.

T-3000 Cassette Duplicator \$1,649.00

Telex Copyette EH™ Series

The Telex portable Copyette EH™ Series 1-2-1 produces 1 copy while the EH 1-2-3 produces 3 copies from a cassette master 16x normal speed. Features for all EH Series include: track select, erase heads, removable power cord, carrying handle, and a protective hard cover. EH 1-2-1 weighs 10 lbs. EH Series 1-2-3 weighs 14lbs.

Mono Copyette EH 1-2-1 1/2 track, 2 channel Mono Copier \$567.00
 Stereo Copyette EH 1-2-1 1/4 track, 4 channel Stereo Copier \$912.00
 Mono Copyette EH 1-2-3 1/2 track, 2 channel Mono Copier \$1,390.00
 Stereo Copyette EH 1-2-3 1/4 track, 4 channel Stereo Copier \$2,215.00

Telex Replica™

The Telex Replica™ copier is a portable, lightweight, 1/2 track, 2 channel monaural copier. It simultaneously copies both sides of a cassette from a cassette master at 16x normal speed. Features include: removable power cord, and recessed handle. Carrying case available. 7 lbs.

Mono Replica™ \$438.00

Telex XGEN™ Series Duplicators

Available in two channel (mono) or four channel (stereo), the Telex XGEN series can be configured to meet almost any requirement. The master module features a master position and three copy positions. Add a total of seventeen copy modules to expand your system to 67 copy positions. Choose between a system that operates at 8x or 16x normal playback speed and select a head option of standard, XL or Ferrite heads. All models feature microprocessor controls with direct drive motors in all positions, Ferrite erase heads, track select, modular cassette pockets, end of tape sensing, auto or manual operation, cleaning cycle, audible tone end of copy and Chrome tape copying (on select models). Two year limited warranty.

Heads	Standard	Ferrite
MonoMaster ...	1/2 Track, 2-Channel, Mono Master	\$2,825
Mono Copy	1/2 Track, 2-Channel Mono Copy Module ..	\$2,825
Stereo Master ..	1/2 Track, 2-Channel Stereo Master	\$3,820
Stereo Copy	1/2 Track, 2-Channel Stereo Copy Module ..	\$3,820

Hotlinks to Vendors @
www.bgsfi.com
www.broadcastdealer.com

Recorders/Players • Cassettes



Cassette Decks	Frequency Response	Stereo or Mono	# of Heads	Note 1 Dual Well	Caspsstan Motor	Reel Motor	Head-Phone Jack	Vari-Speed ±%	Noise Reduction Dolby	Dolby HX Pro	Auto Reverse	Music Search	Auto Locator	Mic Input	Line I/O	Meters	Mic Attenuation	Limiter	Rack Mount	lbs.	Other Accessories	Price	
Denon DRM-550P	2H-19k	Stereo	2	—	DC Servo	DC Servo	Yes	—	—	Yes	Yes	Yes	—	—	RCA	LED	—	—	3U	9		\$249.00	
Denon DRW-585P	2H-19k	Stereo	2	—	DC Servo	DC Servo	Yes	—	B/C	—	Yes	—	—	—	RCA	LED	—	—	3U	8.8		\$299.00	
Denon DN-T620	2H-20k	Stereo	2	—	DC Servo	DC Servo	Yes	12%	B	—	Yes	—	—	—	XLR	—	—	—	5U	13.2	RC620 Remote Control \$140	\$649.00	
Denon DN-720R	2H-20k	Stereo	2	—	DC Servo	DC Servo	Yes	12%	B/C	Yes	—	Yes	—	—	RCA	LED	—	—	3U	10.6	RC700Y Remote Control \$110	\$499.00	
Denon DN-770R	2H-20k	Stereo	2	C	DC Servo	DC Servo	Yes	12%	B/C	Yes	Yes	Yes	—	—	RCA	LED	—	—	3U	12	RC700TW Remote Control \$110	\$699.00	
Denon DN-770RM	2H-20k	Stereo	2x2	C	DC Servo	DC Servo	Yes	12%	B/C	Yes	Yes	Yes	—	—	RCA	LED	—	—	3U	11.5	RC700TW Remote Control \$110	\$699.00	
Denon DN-790R	1H-22k	Stereo	3	—	DC Servo	DC Servo	Yes	12%	B/C/S	Yes	—	Yes	—	—	RCA/XLR	LED	—	—	3U	11.2	RC700 Remote Control \$110	\$699.00	
Marantz PMD-101	40-13.5k	Mono	2	—	1 DC motor drives both	—	Yes	20%	—	—	—	—	—	TRS	RCA	—	—	—	*ALC	P	2.9		\$299.00
Marantz PMD-201	40-12k	Mono	2	—	1 DC motor drives both	—	Yes	20%	—	—	—	—	—	3.5mm	RCA	V/U	Yes	—	*ALC	P	2.9	DA36T Ac Adaptor \$13	\$399.00
Marantz PMD-221	40-12k	Mono	3	—	1 DC motor drives both	—	Yes	20%	—	—	—	—	—	3.5mm	RCA	V/U	Yes	—	*ALC	P	2.9	CLC21 Nylon Carry Case \$40 WPC221 Rechargeable Battery \$75 RB430 Rechargeable Battery \$75 FSK221 Field Support Kit \$60	\$479.00
Marantz PMD-222	40-12.5k	Mono	3	—	1 DC motor drives both	—	Yes	20%	—	—	—	—	—	3.5mm & XLR	RCA	V/U	Yes	—	*ALC	P	2.9		\$519.00
Marantz PMD-430	35-14k	Stereo	3	—	1 DC motor drives both	—	Yes	6%	B&dbx	—	—	—	—	TRS	RCA	V/U	Yes	—	—	P	2.9		\$699.00
Marantz PMD-350 CD Combo	20-28k	Stereo	2	—	DC Servo	DC Servo	Yes	12%	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	3U	20	XLR350 Balancing Kit \$179	\$749.00	
Marantz PMD-500	20-16k	Stereo	1x2	B	DC Servo	DC Servo	Yes	—	B/C	Yes	Yes	Yes	—	—	RCA	LED	—	—	3U	18		\$499.00	
Marantz PMD-501	20-16k	Stereo	2	—	DC Servo	DC Servo	Yes	—	B	—	Yes	—	—	—	RCA	LED	—	—	3U	15		\$359.00	
Marantz PMD-502	20-16k	Stereo	2	—	DC Servo	DC Servo	Yes	15%	B/C	Yes	Yes	—	—	TRS	RCA	LED	—	*ALC	3U	15	XLR502 Balancing Kit \$100	\$469.00	
Marantz PMD-510	20-16k	Stereo	2	C	1 DC motor drives both	—	Yes	15%	B/C	Yes	Yes	Yes	—	—	RCA	LED	—	—	3U	19	XLR510 Balancing Kit \$229	\$729.00	
Marantz PMD-511	20-16k	Stereo	2	C	1 DC motor drives both	—	Yes	15%	B/C	Yes	Yes	Yes	—	Dual TS	RCA	LED	—	Yes	3U	19	XLR511 Balancing Kit w/phantom pwr. \$229	\$749.00	
Marantz PMD-520	20-18k	Stereo	3	B	1 DC motor drives both	—	Yes	3%	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	3U	16	XLR520 Balancing Kit \$229 RCS \$189	\$999.00	
Key-	Note 1 - Dual Well A=Record/Play x1 & Play Only x1 B=Both Record/Play C=2 Independent Record/Play Decks															*ALC=Automatic Limiter Control							



Recorders/Players • Cassettes

Sony TCWCR601EM



Sony TCWDP102



Tascam CD A700



Tascam 102MKII



Tascam 302



Tascam 112MKII



Tascam 122MKIII



Tascam 202MKIII



Tascam 112RMII



Technics RS-TR273



Technics RS-TR571



Technics RS-TR575



Cassette Decks	Frequency Response	Stereo or Mono	# of Heads	Note 1 Dual Well	Caspstan Motor	Reel Motor	Head-phone Jack	Vari-Speed ± %	Noise Reduction Dolby	Dolby HX Pro	Auto Reverse	Muscle Search	Auto Locator	Mic Input	Line I/O	Meters	Mic Attenuation	Limiter	Rack Mount	lbs.	Other Accessories	Price
Sony TCD-6PROZ	40-14k	Stereo	2	—	1 DC motor drives both	—	Y+H	—	B	—	—	—	—	XLR	RCA out	V/U	Yes	Yes	P	3.75		\$1,475.00
Sony TCWR-565RM	30-18k	Stereo	2	A	DC Servo	DC Servo	Y+H	30%	B/C	Yes	Yes	Yes	—	—	RCA	LED	Yes	Yes	3U	10		\$320.00
Tascam 102MKII	25-17k	Stereo	2	—	IC Logic	IC Logic	Y+H	—	B/C	Yes	—	—	—	—	RCA	LED	—	—	3U	8.3		\$399.00
Tascam 112MKII	25-16k	Stereo	2	—	DC Servo	DC Servo	Y+H	12%	B/C	Yes	—	—	Yes	—	RCA	V/U	—	—	3U	18.5	LA-112 Balancing Kit \$110	\$920.00
Tascam 112RMKII	25-17k	Stereo	2	—	DC Servo	DC Servo	Y+H	12%	B/C	Yes	Yes	—	Yes	—	RCA	V/U	—	—	3U	19.2	RC12R Remote Control \$27	\$1,245.00
Tascam 122MKIII	25-17k	Stereo	3	—	DC Servo	DC Servo	Y+H	12%	B/C	Yes	—	—	Yes	—	XLR	V/U	—	—	3U	18.5	RC134 Remote Control \$27	\$1,499.00
Tascam 130	15-20k	Stereo	3	—	DC Servo	DC Servo	Y+H	10%	B/C	Yes	—	—	—	—	RCA	LED	—	—	3U	12		\$540.00
Tascam 202MKIII	25-17k	Stereo	2/2	B	1 DC motor drives both	—	Y+H	—	B/C	Yes	Yes	Yes	—	TRS	RCA	LED	—	—	3U	10.5		\$599.00
Tascam 302	25-18k	Stereo	2/2	C	DC Servo	DC Servo	Y+H	10%	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	3U	16	RC302 Remote Control \$70	\$799.00
Tascam CD-A500 CD Combo	10-20k	Stereo	3	—	DC Servo	DC Servo	Y+H	12%	B/C	—	Yes	—	—	—	RCA	LED	—	—	3U	7		\$450.00
Tascam CD-A700 CD Combo	10-20k	Stereo	3	—	DC Servo	DC Servo	Y+H	12%	B	—	Yes	—	—	XLR/RCA	LED	—	—	3U	14.5	S/PDIF Digital Out from CD	\$629.00	
Tascam W505R/TAS	30-16k	Stereo	2	C	DC Servo	DC Servo	—	—	B	—	Yes	—	—	—	RCA	LED	—	—	3U	8	RM860 Rack Mt \$29	\$199.00
Technics RS-TR272	30-14k	Stereo	3	A	DC Servo	DC Servo	—	—	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	Opt	11	Rack Kit CSKit \$4C	\$159.95
Technics RS-TR373	30-14k	Stereo	4	A	DC Servo	DC Servo	—	—	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	Opt	14	Rack Kit CSKit \$4C	\$199.95
Technics RS-TR575	30-14k	Stereo	4	B	DC Servo	DC Servo	—	—	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	Opt	11	Rack Kit CSKit \$4C	\$249.95
Technics RX-BX501	30-14k	Stereo	4	—	DC Servo	DC Servo	Y+H	—	B/C	Yes	Yes	—	—	—	RCA	LED	—	—	Opt	11	Rack Kit CSKit \$4C	\$229.95

Key- Note 1 - Dual Well
 A=Record/Play x1 & Play Only x1
 B=Both Record/Play
 C=2 Independent Record/Play Decks

*ALC=Automatic Limiter Control



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Recorders/Players • Analog Multitrackers

Fostex X-34 Multitracker

The Fostex X-34 multitracker features: 4-track simultaneous recording • advanced auto routing - each input can be assigned to any of 4 tracks with LED indication • auto bounce for easy track bouncing • 4 x tape out • automatic track down - one button push and you're ready for stereo mixdown • Hi/Lo 2 band EQ on each channel • monitor out with independent level control • 4 x line inputs double as insert points for connection of compressor/limiters, etc. • stereo aux return for versatile mixdown effects - aux send on each channel • -50%/+12% pitch control • Dolby®B noise reduction • high speed 3-3/4 ips selection (Dolby off) • balanced XLR mic inputs • 3 digit tape counter • and headphone output w/level control.



X-34 Multitracker \$499.00

Tascam Porta 02 Ministudio

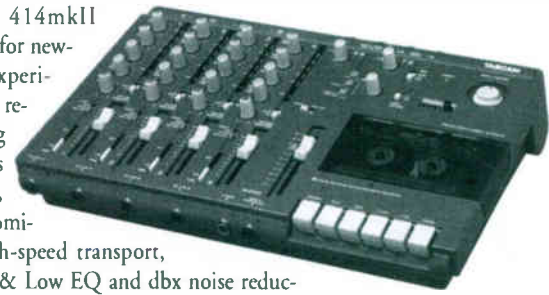
The Tascam Porta 02 Ministudio is an extremely economical 4-track, 4-channel cassette recorder with integrated mixer letting you overdub as well as mixdown to standard cassette. Includes: two mic/line inputs, each with trim control • 4 channel mixer with level/pan controls on each channel • headphone jack w/level control and mono switch • master L/R line output • 4 part LED on each mic/line input • 2-track simultaneous record • 1-7/8ips tape speed • and 3-digit tape counter.



Porta02 \$225.00

Tascam 414 MKII Ministudio

The new Tascam 414mkII Portastudio is ideal for newcomers or those experienced in multitrack recording, packing high-end features into a convenient, compact and economical package. A high-speed transport, combined with Hi & Low EQ and dbx noise reduction means great sound. For convenience, there are also 2 XLR microphone inputs, and a 1/4" HiZ guitar input. Features include: 4 track recorder with 8 input mixer • 4 mic/line input channels, 2 stereo inputs • 2 XLR mic inputs • 2 effect sends • 2 band EQ on each channel • and 3 3/4 ips high tape speed. Use it for demos, as a portable sketch pad, or for practicing recording techniques.



414 MKII Ministudio \$375.00

RC-30P Single switch- punch in/out \$40.00

Tascam 424MKIII Portastudio

The new Tascam 424MKIII Portastudio has 6 full-function input channels with MID sweepable 3-band EQ. The 2 independant auxiliaries mean you can add two separate effects to the same channel. Features include: 4-track, 4-channel recording • simultaneous recording up to 4-tracks • dual tape speed • logic controlled 4-track tape transport • dbx® noise reduction & 3-3/4 ips tape speed • ±12% pitch control • return to zero and 2 locate points • repeat function • auto punch I/O with rehearsal function • 2 aux sends for effects processing, one of which is switchable to tape cue • 4 assignable XLR mic inputs • dedicated stereo inputs (ch. 7 & 8) • stereo SUB in • separate main L/R and monitor outputs • dedicated 4 tape outputs • sync output • and easy to read FL display.



424MKIII \$599.00

RC-30P Single switch- punch in/out \$40.00



Broadcasters General Store

1-352-622-7700



Technics SL-1200MKII



The Technics SL-1200MKII is a quartz-locked direct drive turntable that is virtually feedback-proof because of its special base design. The platter is damped on both sides to avoid ringing. Its high starting torque brings the platter to rated speed within 0.7 second. Includes base, tonearm and dust cover.

SL-1200MKII \$699.95

Shure	Styli Model	Tracking Force	Cartridge Price	Styli Price
SC35C	SS35C	4 to 5 grams (Spherical)	\$60.00	\$31.00
M44-7	N44-7	1.5 to 3 grams (Spherical)	\$115.00	\$55.00
M44G	N44G	.75 to 1.5 grams (Spherical)	\$115.00	\$47.00

Stanton	Styli Model	Tracking Force	Cartridge Price	Styli Price
681EEEMKIII	D6800EEEMKIII	3/4 to 1-1/2 grams	\$147.00	\$120.00
680ELII*†	D6800ELII	2 to 5 grams	\$80.00	\$55.00
500ALII*	D5107ALII	2 to 5 grams	\$45.00	\$30.00
500AL-II Twin†	DP5107ALIIDP‡	2 to 5 grams	\$69.00	\$81.00

* for back cueing † extra stylus included ‡ Disco Pack includes 3 styli
 We handle all Shure and Stanton cartridges and styli; please call for further information.

Turntable Preamps	Frequency Response Hz	S/N Ratio	Stereo Separation	Output Level	Features/Options	Price
ATI P100S	30-20k	80dB	<60dB	+18dBm	Selectable RIAA curve	\$349.00
ATI P1000-1	30-20k	80dB	<60dB	+22dBm	Xfmr. balanced RM-S \$25 Dual \$28	\$449.00
ATI P1000-2	30-20k	80dB	<60dB	+24dBm	Active balanced RM-S \$25 Dual \$28	\$419.00
Radio Design Labs ST-PH1	RIAA Curve	<-75dB	<60dB	+4dBm	24Vdc PS-24A \$18	\$134.00
Rane PS-1	RIAA Curve	84dB	80dB	+22dBm	Selectable Cartridge Loading	\$229.00

Recorders/Players • Digital Announcers

ALARMCO AUTOPLAY™

Digital Recorder/Announcer

The ALARMCO AUTOPLAY™ Digital Recorder/Announcer is great for message on hold • public address message repeater • scheduled announcements • pre-recorded pages • and event triggered messages. Speed noted in minutes and seconds for recording capacity.

DRAM-110	1:47 Low Speed, 1:00 Standard Speed	\$825.00
DRAM-220	3:35 Low Speed, 2:00 Standard Speed	\$1,125.00
DRAM-330	5:22 Low Speed, 3:00 Standard Speed	\$1,325.00
DRAM-430	7:10 Low Speed, 4:00 Standard Speed	\$1,525.00
DRAM-540	8:57 Low Speed, 5:00 Standard Speed	\$1,725.00
DRAM-650	10:45 Low Speed, 6:00 Standard Speed	\$1,925.00
DRAM-760	12:32 Low Speed, 7:00 Standard Speed	\$2,125.00
DRAM-860	14:20 Low Speed, 8:00 Standard Speed	\$2,325.00

Options available include: telephone control (\$295) • output relay (\$105) • addressable (\$260) • serial link (225) • second channel -2C(\$80) • and second channel w/music -2M (105). Only one option per announcer is possible.

ALARMCO TELEPLAY™

Digital Recorder/Announcer

The ALARMCO TELEPLAY™ Digital Recorder/Announcer with solid state dependability, will answer the phone, detect touch tones and play pre-recorded messages. TelePlay can play a message and instantly be ready for the next caller. Features include: remote record capability • 7 day clock allows automatic play of different messages at different times during the week • messages can be recorded "on the fly" or downloaded from professionally produced audio tapes • and updated messages can be stored into TelePlay through satellite or FM sub-carrier audio channels.

TP-110	1:47 Low Speed, 1:00 Standard Speed	\$1,065.00
TP-220	3:35 Low Speed, 2:00 Standard Speed	\$1,355.00
TP-330	5:22 Low Speed, 3:00 Standard Speed	\$1,545.00
TP-430	7:10 Low Speed, 4:00 Standard Speed	\$1,735.00
TP-540	8:57 Low Speed, 5:00 Standard Speed	\$1,925.00
TP-650	10:45 Low Speed, 6:00 Standard Speed	\$2,115.00
TP-760	12:32 Low Speed, 7:00 Standard Speed	\$2,305.00
TP-860	14:20 Low Speed, 8:00 Standard Speed	\$2,495.00

Options available include: output relay (\$105) or remote sourcing (\$125)

Recorders/Players • Digital Announcers

ALARMCO INSTAPLAY™

Digital Recorder/Announcer

The ALARMCO INSTAPLAY™ Digital Recorder/Announcer goes further because it will record, digitize, store and playback up to 4, 8, or 16 messages with independent access via screw terminals. Speed noted in minutes and seconds for recording capacity.

1:47 Low Speed, 1:00 Std Speed	IP-4	\$825	IP-8	\$959	IP-16	\$1,095
3:35 Low Speed, 2:00 Std Speed	IP-4	\$1,125	IP-8	\$1,259	IP-16	\$1,395
5:22 Low Speed, 3:00 Std Speed	IP-4	\$1,325	IP-8	\$1,459	IP-16	\$1,595
7:10 Low Speed, 4:00 Std Speed	IP-4	\$1,525	IP-8	\$1,659	IP-16	\$1,795
8:57 Low Speed, 5:00 Std Speed	IP-4	\$1,725	IP-8	\$1,859	IP-16	\$1,995
10:45 Low Speed, 6:00 Std Speed	IP-4	\$1,925	IP-8	\$2,059	IP-16	\$2,195
12:32 Low Speed, 7:00 Std Speed	IP-4	\$2,125	IP-8	\$2,259	IP-16	\$2,395
14:20 Low Speed, 8:00 Std Speed	IP-4	\$2,325	IP-8	\$2,459	IP-16	\$2,595

Options available include all those shown for AUTOPLAY plus: internal timer (\$65) • inverted inputs (\$50) • and switches (\$80). Only one option per announcer is possible.

Bogen ProHold® Series Digital Reproducer



The Bogen ProHold® Series of Digital Reproducer utilizes advanced digital circuitry to create seamless audio. The ProHold automatically assesses the audio start and stop point, sets the record levels, downloads, and goes into play mode. Changing messages is as easy as inserting a new tape. When the ProHold downloads the new tape program, it automatically erases the previous program. If the power should be interrupted,

the ProHold will automatically reload the program on the tape left in the unit. The

ProHold has a one-time play feature, controlled by a built-in trigger jack. The audio output of the ProHold can be connected directly to a loudspeaker, and the message triggered by a switch. The trigger jack also has a message sensing feature which can signal other equipment, such as lights, doors, etc., during playback.

Pro4	4-Minute Capacity	\$830.50
Pro6	6-Minute Capacity	\$951.50
Pro8	8-Minute Capacity	\$1,067.00
Pro12	12-Minute Capacity	\$1,188.00

Henry DigiStor-II Multi-Message Digital Audio Recorder

Henry DigiStor II is a multi-message digital audio recorder. It can store up to 8 minutes (16 mins. optional) of monaural audio with a bandwidth of 6.5kHz. DigiStor II's multiple modes of use make it ideal for numerous applications in broadcasting, telecommunications, and commercial sound: network news delay, station or translator ID



and spot insert, message-on-hold, news & actuality lines, call-in telephone information, museum exhibits & displays, sound effects, announcements, etc. DigiStor II can store up to 8 messages which can be played in any order. Multiple playback modes support onetime or repeat play, plus automatic sequencing and message (stacking). Messages can be different lengths, and can be selectively recorded (or changed) without having to rerecord other messages. Messages are stored in nonvolatile flash memory and are retained even if power is off. (No backup battery needed.) Recording and playback is via local or remote control. DigiStor II can record from either a mic or line level source. Input and output levels are adjustable. An (eom) relay pulse is automatically generated at the end of message playback. The included telephone auto-coupler allows DigiStor II to be connected to a phone line for auto-answer message playback. A special (SR) version adds: (Secondary Cue) relay output, 16 minute storage time, RS-232 control of Record and Play functions, and front-mounted controls.

DS-8	8 Minute DigiStor	\$795.00
DS-16	16 Minute DigiStor	\$995.00

Roland AR-100 Announcement Recorder

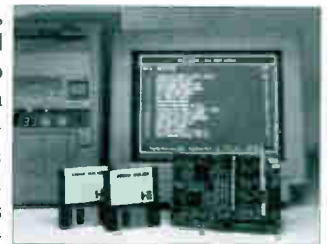
The Roland AR-100 Announcement Recorder is a half-rack space digital audio recorder/player designed for any application requiring pre-recorded announcements. Audio is recorded on industry standard PCMCIA cards which have no moving parts and require no maintenance. Theme parks, museums, airports and music delivery services are just a few of the businesses which can benefit from installation of the AR-100. The AR-100 can be used for educational narratives, background music, safety messages, warnings, public transportation announcements and any number of applications where continuous message playback is needed. It can also playback MIDI data for controlling lights, robotics and effects. The AR-100 offers linear playback and Roland Digital Audio Coding (RDAC) technology, which requires less disk space to record audio than other digital systems - with virtually no loss of sound quality. Recordings can be made at several different sample rates (44.1kHz, 32kHz, 22.05kHz and 16kHz) in either mono or stereo to optimize recording time available on the PC card. The PC card slot is built right into the front panel of the AR-100, with the capability to store up to 250 announcements on one PC card. Announcements can be recorded or played back using convenient front panel operation, or controlled externally using one of many options available. Several AR-100's can also be controlled from an external MIDI controller to playback a variety of simultaneous messages. Features: Built-in PCMCIA card slot with no moving parts for reliable, maintenance-free operation • Many different playback options including GPI, interval playback, binary playback and MIDI control • DC operation (9-24v) • Multiple options for recording time/quality: up to 80 minutes per 40 MB card • Recording and playback of MIDI information for controlling external devices • Recording can be remote controlled • Stereo, mono or independent dual mono operation • Easy front panel operation for on-site playback and recording • Seamlessly integrates into existing audio systems.

AR-100 Digital Announcement Recorder \$795.00

Henry Audio Online

Software and 2 line interface/modem

Henry Audio Online is ideal for broadcast stations, public relations firms, schools, hospitals, political offices, and other institutional users who wish to make high-quality audio presentations available via regular telephone lines. It is a caller-interactive system that allows callers to select messages from an "audio-menu". Up to 9,999 messages can be stored with excellent audio fidelity. Editing messages is quick and easy. Messages can be recorded "live" or dubbed from a prepared tape or cassette. Audio Online consists of a special 2-line telephone interface/modem card plus software that operates on a dedicated PC. An inexpensive, basic "386" DOS computer is ideal (not included). For each 20MB of hard drive space, there are about 15 minutes of recording time. The basic system answers 2 phone lines and can be expanded to handle up to 12 incoming phone lines.



Audio Online.. Software and 2 line interface/modem \$995.00

Recorders/Players • Digital Announcers

Roland AR-2000 Digital Announcement Recorder

The Roland AR-2000 Audio Recorder is a one rack space digital audio recorder/player designed for any application requiring high fidelity pre-recorded announcements. Theme parks, museums, elevators, airports, buses, trains and trams are just some of the installations that can benefit from the AR-2000's 160 minutes of record time (at 16kHz). The AR-2000 can be used for educational narratives, background music, safety messages, warning messages, public transportation address, directional messages, broadcast station ID's, news and sports intros, applause and laugh tracks and any number of applications where continuous message playing is needed. The AR-2000 uses the latest Roland Digital Audio Coding (RDAC) technology, which requires less memory for longer recording

times with virtually no loss of sound quality. Users can select from 44.1kHz, 32kHz, 22.05kHz, 16kHz and 8kHz sampling rates and between mono and stereo modes. Two PCMCIA Card slots are built into the front panel. SRAM cards and flash ATA cards can be used to store data. The use of these large volume storage cards allow the AR-2000 to record approximately 60 minutes at 44.1kHz, 80 minutes at 32kHz and 160 minutes at 16kHz (two 40 Mb PCMCIA Type II Cards in mono mode). Up to 500 phrases can be stored on any card. Phrases can be played back as required using an external controller via GPI signal or RS-232C computer control, front panel manual control and rear panel switch closures. PC-based control software can be customized for specific play-back control and phrase

editing operations. The AR-2000 is MIDI compatible, so it can be used with an external MIDI controller using MIDI messages to play back phrases. Up to 1000 phrases can be linked and played back via MIDI. The AR-2000 also functions as an audio recorder to record and play back SMF (Standard MIDI File) music data. It can play back songs when connected to MIDI sound modules and it can also control other MIDI devices. Rear panel Line Inputs can be used to mix external audio signals (like FM broadcast and CD playback) and phrases played back on the AR-2000. Incoming audio signal level can be lowered during phrase playback automatically.

AR-2000 Digital Announcement Recorder .. \$1,595.00

Sine Systems TTA-1 Time-Temp Announcer



The Sine Systems TTA-1 Time-Temp Announcer is a complete time and temperature delivery system that does not require an external host computer. Advertising or informational messages are recorded in nonvolatile digital storage that does not require a battery backup. The opening greeting can be a single 30 second message, two 15 second messages or three 10 second messages that rotate. The

closing message can be up to 15 seconds. The basic system manages two telephone lines. The system is expandable with the TTA-Ex Expansion Unit that adds 6 lines. Up to two expansion units can be added for a total of 62 lines.

TTA-1	Time-Temp Announcer	\$1,500.00
TTA-1Ex	6 line expansion unit for TTA-1	\$1,500.00
EC-100	Extension cable for temperature sensor	\$45.00
IC-3	Interconnect Cable for 3 expansion units	\$20.00
IC-10	Interconnect Cable for 10 expansion units	\$45.00

Aardvark Aark24

Hard disk 24-bit Multitrack Recording for the PC

The Aark24 brings multichannel audio to your PC. The system is built around Aark24's 24-bit outboard A/D converters that maintain source audio with supreme clarity and precise accuracy. The standard ADAT I/O and ADAT Sync makes the Aark24 the perfect complement to any ADAT based studio while the Word Clock I/O allows it to sync your entire studio to Aardvark's powerful clocking technology! You can sequence synth gear using MIDI I/O while flying digital audio directly to your DAT via the coaxial S/PDIF I/O. The TOSLINK stereo optical support allows you to make a direct digital transfer from any Sony Minidisc™; or CD player. High performance features include: true 24-bit A/D D/A, with eight 1/4" TRS analog I/O, • switchable +4dBu/-10dBv, .002% THD+N • ADAT® optical I/O, ADAT® sync, S/PDIF digital I/O, AES/EBU I/O (optional) • MIDI I/O, TOSLINK optical I/O, Word Clock I/O, TASCAM(r) TDIF I/O (optional) • 10 channel full duplex simultaneous Rec/Play, shielded PCI host card w/24-bit DSP • Win 95/98 & Steinberg™ ASIO drivers, 19" rackmount optional.



Aark24 \$899.00

Aardvark Direct Pro 24/96

The Direct Pro 24/96 allows you to record directly into the computer from practically any source in your studio. Both Mic and line level sources can be acomadated by the four premium MIC pre-amps included or four 4 TRS 1/4" inputs. From these four flexible inputs you can record multiple channels simultaneously, add real time DSP effects and then edit, mix, master and burn the final CD master. The rugged breakout box houses the custom MIC pre's, and the shielded converters keep out computer noise that could ruin a recording. Standard Features include: 24-bit 96kHz processor • 4 XLR MIC inputs with phantom power • 4 TRS 1/4" inputs, 10 channel mixer, 6 analog outputs • 24-bit S/PDIF, MIDI In/Out, headphone jack • real-time DSP effects: Reverb, Compressor, 3-Band EQ



Direct Pro24/96 \$699.00

Recorders/Players • Computer

Arrakis Digilink III

Digital Workstations



Arrakis Digilink III Digital Workstations have the multipurpose ability to be used in Live On Air, for Satellite automation, CD automation, hard disk automation, two track stereo editing, News, and for remotes. When networked with the Trak*Star workstation, the Digilink III becomes a complete digital radio station integrating computer based Traffic scheduling, Production, On Air, and log reconciliation's. All workstations include: a standard DL3 workstation with DL3 automation software, a network card with network software standard, a Trak*Star 8 track editing software bundle, and 14" color VGA monitor, keyboard, and mouse. DL3 Automation and Trak*Star editing software may not be run at the same time on a single DL3 workstation but are included to increase the workstation's flexibility. Many expansion options are available, please call Broadcasters General Store for more information.

DL3-78	78 hour Digilink Workstation	\$9,995.00
DL3-150 ..	150 hour Digilink Workstation ..	\$11,995.00
DL3-DL4JUKE	105 Hr. Hard Drive Audio Jukebox	\$5,995.00
NET2	Net Board for Traffic Computer	\$495.00

Arrakis Trak*Star Multitrack editing Workstations

Automation Screen

The Arrakis Trak*Star Multitrack editing Workstations are eight track editors that quickly and easily produce radio spots, promos, jingles, and other programs. Once produced, the finished piece is sent in perfect digital via network to the Digilink III workstation in the On Air Studio. Identical to the on air workstation, Trak*Star is the only production workstation that backs up on air. Optimized for radio applications, Trak*Star has the features and ease of use that radio demands.



- TS3-1000 8-Track editor w/2.4GB & emerg \$5,995.00
- TS3-6000 8-Track editor w/9GB & emerg \$7,995.00
- TS-AUTO DL3 Automation Software \$2,995.00

Live Assist Screen



Schedule Screen



Arrakis Digilink IV Workstations

The Arrakis Digilink IV Workstations are the newest addition to the Digilink family of products. Designed from the ground up to meet the needs of today's broadcasters for reliability, ease-of-use, and digital superhighway connectivity, the DL4 is optimized for Live On Air and Automation in hard disk based applications. With triple play and record in the base workstation, a single DL4 is an ideal cart machine replacement. Connect two stations together with the 'Share' System for six plays and dual record from a single shared hard drive and the DL4 services as many as 4 studios for On Air and Production. Even connect up to 32 workstations to the 'Shared Audio Storage System' and operate up to 32 studios from a single common library. The DL4 supports several push-button control systems but for sophisticated applications the DL4 may be controlled by a Pentium based Windows 95 PC computer. The DL4-WIN95 software supports all Live, Automation, and Production applications with such powerful capabilities as segue editing, voice tracking, phoner editing, and much more.



Please call Broadcasters General Store for complete list of options available and pricing.

- DL4-1200-P Workstation (2GB, 24 hrs storage), requires LCD or PC \$2,995.00
- DL4-6000-P Workstation (9GB, 105 hrs storage), requires LCD or PC \$4,495.00
- DL4-18GB-P ... Workstation (18GB, 210 hrs storage), requires LCD or PC .. \$6,495.00
- DL4-LCD3-P . 3-Channel LCD front panel for Workstation \$495.00
- DL4-AES-IN .. AES/EBU digital audio record input \$195.00
- DL4-SHARE .. Software to link 2 DL4 Workstations \$995.00
- DL4-LCD? 3-Channel LCD Control Panel, table-top/rackmount/or single ch. box \$995.00
- GEM-7CC 83 Button Jingle Box (LCD Control req'd) \$1,195.00

Cybox KVM LongView Extender

Relocate your CPU Up to 500' from your Keyboard, Monitor & Mouse

The Cybox LongView LV200 Extender allows you to relocate your keyboard, monitor, and mouse up to 500 feet away using a single Category 5 UTP cable! LV400 also allows for stereo speaker, microphone and COM serial port to be remoted as well. LongView is simple to install; no software or expensive networks are required. Just place your peripherals at your remote location, connect the cables and use your PC just as if it were in the same room. There are no jumpers or switches to configure. Multimedia capability provides high quality audio, up to 1600x1200 non-interlaced resolution video and support for a high speed COM serial port.



- LV200 Trans/Rec Pair. No extension for speakers or microphone. \$495.00
- LV400 Trans/Rec Pair. PS/2 keyboard, mouse, serial device, speakers, mic extension. ... \$595.00

Cybox PC Companion Plus

Adds a Second Keyboard, Monitor & Mouse



The Cybox PC Companion Plus allows you to add a second keyboard, monitor & mouse to your PC as far as 600 feet away. One switch can be configured four different ways to maximize your privacy options; prohibit unwanted viewing or interruptions from your inactive workstation, or allow full access from either location. PC Companion Plus supports both monochrome and color VGA monitors simultaneously and either PS/2 or serial mice.

Just connect the cables, and place your second set of peripherals wherever you need them the most.



- PCUE-0 Transmitter/Receiver Pair, 300', PC/AT & PS/2 platform \$495.00
- PCUX-0 Transmitter/Receiver Pair, 600', PC/AT & PS/2 platform \$695.00

Cybox SwitchViewKVM Switch

Control 4 Computers w/1 Keyboard, Monitor & Mouse

The Cybox SwitchView™ will connect and control up to 4 computers with a single keyboard, monitor and mouse! Features include: switch from your keyboard or front panel selection button • fully supports Microsoft IntelliMouse.....includes serial mouse emulation • cascade multiple



SwitchView units to support up to 64 PCs in all • automated scan mode lets you view each PC in turn • LEDs indicate which computers are on-line and which one is currently selected • plug your peripherals directly into the switch to eliminate multiple sets • and Class B certified.



- SW10040 Desktop KVM Switch, 4 Ports \$249.00
- SW10020 Desktop KVM Switch, 2 Ports \$169.00
- CPS2-6 Cable Kits for PS/2 mouse, connects CPU to SwitchView, 6' \$45.00
- CSER-6 Cable Kits for serial mouse, connects CPU to SwitchView, 6' ... \$45.00

Digital Audio Labs Card Deluxe

Audio Interface for the Computer

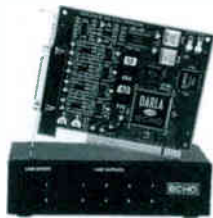
Digital Audio Labs CardDeluxe is the newest member of the Digital Audio Labs CardD family. With a PCI interface and no compromise 24/96 balanced analog and S/PDIF digital all on a single card, the CardDeluxe brings high-end audio performance within reach of almost any budget. Features include: PCI Interface • 8 to 24 bit resolution • 11kHz to 96kHz sampling rate (actual rates: 11.025kHz, 22.05kHz, 32kHz, 44.1kHz, 48kHz, 88.2kHz, and 96kHz) • Analog two channel in/out via 1/4" TRS connectors • S/PDIF digital in/out via gold-tipped RCA connectors • +/-10dB balanced/unbalanced operation (jumper selectable) • 4 channel operation using both analog and digital ins and outs simultaneously • Slaving of multiple CardDeluxes to single sample clock (See Below) • WavSync(tm) for flawless start and stop of multiple ins/outs (See Below) • Analog Input Dithering (4-types, user selectable) • Support for streaming Dolby AC3 surround on the digital inputs and outputs • Windows 95/98 support • Windows NT support • DirectX support • ASIO support • Macintosh support (TBA)

CardDeluxe Audio Interface for the Computer \$595



Echo Layla24, Gina24, Darla24 & Mona Audio Interfaces

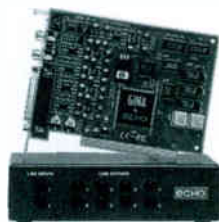
The Echo Darla24 combines 24-bit 96kHz balanced inputs and outputs and a 1/4" breakout box at an incredible price! Multiple cards may be "sync'd" together for easy expansion. The Darla 24 comes with a 3' shielded host cable that connects the break out box to a PCI bus master interface card. Mac/Windows.



Darla24 \$379.00

Layla24 uses the latest generation 24-bit 96 kHz converters with 110dB dynamic range and distortion of less than .002%. It has true differential, balanced outputs and a superb headphone output. ADAT lightpipe and optical S/PDIF are now included, as well as a new cool-running power supply and a smaller cable.

Layla24 \$995.00



Gina 24 offers 2 in 8 out balanced 1/4" connections, ADAT, SPDIF Coaxial and S/PDIF optical. Gina also has an internal digital audio connection for the CD ROM drive. Using the latest generation of 24-bit 96kHz converters. Gina 24 offers a high dynamic range and low distortion. The new Gina 24 comes with a 6' shielded host cable that connects the break out box to a PCI bus master interface card.

Gina24 \$495.00

The Mona was designed, by taking everything Echo had learned from making Layla, Gina, and Darla to create a single piece of gear that could be the basis for an entire digital studio. It has 24-bit, 96 kHz converters and six outputs to master the latest DVD audio discs as well as the older CD format. It allows for direct connection of microphones and guitars and interfaces with other digital equipment.

Mono \$995.00



IQS Innovative Quality Software



16 Stereo Tracks

IQS Innovative Quality Software SAWPro Software Audio Workshop for the professional is the latest creation from IQS, representing the Fourth Generation of the SAW software. SAWPro incorporates more power than ever with 24-bit/96kHz record and playback capabilities, 99 levels of multiple undo, and support of DirectX and VST plug-ins allowing you to now use your favorite third-party plug-ins LIVE in the SAW MultiTrack environment. For complete information check out our direct link to the IQS web site.

SAWStudio SAMM (Soft-ware Audio Midi Mixer) virtual mixing technology and the SAW hard disk editing technology in one power-packed application \$2,500.00

SAW32/SAWPlus32 32 Stereo Tracks (16 in SAW32), up to 12 Stereo Dev/24 I/O (6 and 12 I/O in SAW32), Includes all of the SAWPlus features and much more! \$500/\$700.00

SAWPro 32 Stereo Tracks, up to 12 Stereo Devices (24 I/Os), 16-bit, 20-bit & 24-bit resolution, .WAV Sound File Format, Includes all of the SAWPlus and SAW32/SAW Plus32 features and much more! \$950.00

JK Audio Pureformer

Hum & Noise Reducer for Sound Cards & Audio Equipment

The JK Audio Pureformer is a hum and noise reducer for sound cards and audio equipment. It removes ground loops and DC paths that cause hum and signal break-up. Just insert it between your sound card and your audio mixer or amplifier.



Pureformer Hum & Noise Reducer for Sound Cards & Audio Equipment \$59.00

JK Audio TAP-1 Telephone Audio and Power Interface

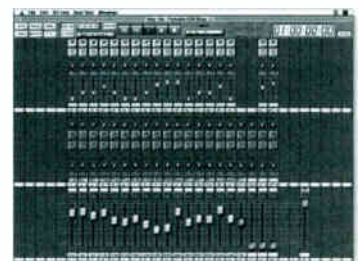


JK Audio TAP-1 can be used to power a cordless telephone and connect the audio paths to a sound card for use as an internet telephone. Imagine roaming the office as you talk on the internet. TAP-1, powers an analog telephone with the required -48Vdc and separates audio into transmit and receive audio paths.

TAP-1 Telephone Audio and Power Interface \$245.00

JLCooper Electronics V/DESK Mixing Software

JLCooper Electronics V/DESK mixing software for the Yamaha 02R™ provides timecode-synchronized, dynamic recording and playback of all 02R functions. Feature innovations like an off-line editing and graphic editing inspire your imagination and let you visualize and edit your mix like never before. V/DESK's stunning screen graphics and intuitive user interface are second to none.



Please check out our link to the JLCooper web site for more complete information.
V/DESK Mixing Software for the Yamaha 02R™ (Power Mac Only) \$499.95

iMediaLogger by OMT Technologies — 2, 4, 6 or 8 Stereo Channel Recorder, Logger & Skimmer



The iMediaLogger™ provides real time audio recording of up to 16 simultaneous mono or 8 stereo source feeds with 4 x 2 channel discrete audio cards. iMediaLogger operates in: on-going logger mode • skimmer mode • or scheduled source feed record mode. The iMediaLogger provides recording in a wide variety of compressed audio formats (MPEG2, MP3, WMA, ADPCM) or non-compressed PCM. User selectable bit rates and sample rates are available to suit a wide range of broadcast and commercial applications. Using the WMA compression format at 16Khz 16-bits stereo 20kbs produces 1.4GB per week off recorded audio. 5 weeks = 8GB per station.

Software Only:

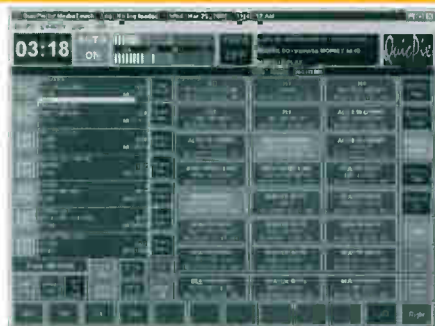
- iMlogger1 1 Ch. (1 stereo), Requires Soundblaster or equivalent plus * \$695.00
- iMlogger2 2 Ch. (2 stereo or 4 mono), Requires 1 MAudio Delta-44 or Antex LX44 plus* \$1,295.00
- iMlogger4 4 Ch. (4 stereo or 8 mono), Requires 2 MAudio Delta-44 or Antex LX44 plus* \$2,495.00
- iMlogger6 6 Ch. (6 stereo or 12 mono), Requires 3 Antex LX44 plus* \$3,790.00
- iMlogger8 8 Ch. (8 stereo or 16 mono), Requires 4 Antex LX44 plus* \$4,995.00
- (iMlogger 12 \$6995) and (iMlogger24 \$9995) Coming Soon

Turnkey Systems (preconfigured hardware) are available, please call for current pricing!

iMediaLogger Applications

- On-Air talent skimmer
- Audible affidavit of commercials played
- 24 hour program logging
- Enemy monitoring & eavesdropping
- Network background recording
- Program redistribution
- Time shift programming
- Web audio publishing
- DAT recorder replacement
- Long-distance monitoring via the Internet

QuicPix & QuicPix Radio Suite by OMT Technologies



QuicPix Playlist Screen



QuicPix Cartwall Screen

Here's what Sonny West, Morning Host, KYXY San Diego had to say:
 "Now I don't have to lug three cases of cd's into the booth with me everyday...everything's on the QuicPix. The sound is awesome and I'm finding new uses for it everyday. It is the easiest, most user friendly software. The learning curve is more like a "learning slope"...very short and not very steep. Over the course of 10 hours I loaded in my entire collection of music beds, TV/ Movie themes, 300 cartoon drops, an entire sound effects library and more."

QuicPix features:

- Playlist screen with 7 "virtual cart decks", 24 hot keys, with multiple overlaps
- Cartwall (Arena) screen of 40 hot keys with multiple overlaps
- CD Ripping transfers audio from CD to hard disk at 6X real time or better
- Audio Library Manager imports files from audio editors and Internet downloads
- Supports MP3, MPEG-2, WMA, ADPCM and PCM on any sound card
- Windows 95/98. NT/2000 recommended for unattended automation use

QuicPix Applications:

- Morning Show to Go (Produce at home, use On-Air, protect your bits!)
- Low cost On-Air automation or live assist
- Internet Broadcasting
- Sales Department - Spec Spots - Client Auditions
- News gathering, packaging and delivery
- Emergency On-Air back-up
- Remotes & Sporting Events "The Button Box Alternative"



MediaDisk-32 Production

QuicPix Radio Suite Features:

- Includes QuicPix Playlist and Cartwall (shown above) plus:
- CD Ripper transfers audio from CD to hard disk at 6X real time or better with CDDb database interface
- Media Disk 32 Production allows realtime MP-3 recording, importing and waveform editing along with MPEG-2, WMA, ADPCM, and PCM.
- Import Manager imports files from audio editors & Internet downloads
- Word flipping, normalization and sample rate conversion
- Voice Tracking window for interactive listen out, listen in production

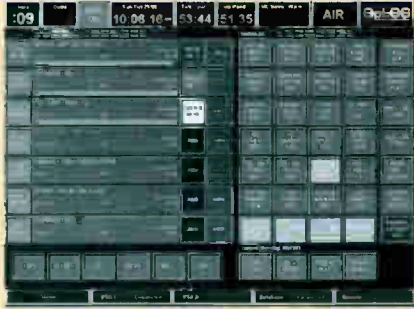
QuicPix Pricing:

- Software only: QuicPix \$399.00
- QuicPix Radio Suite \$999.00
- Sound Forge XP \$59.95
- or Cool Edit Pro \$399.00

Note: Requires Intel 400 MHz processor or faster, 64MB RAM or greater, at least 1GB hard disk space. Complete packages including laptop available, please call for current configuration and pricing!

Download a full functional demo @ www.quicpix.com

OpLOG 32 Sat Net System by MediaTouch



- ✓ OpLOG 32 Sat-Net System for satellite or live assist use. Simple and easy to use screen Drop liner or Hot Start buttons
- ✓ Audio Stretch and Shrink Auto Fill and Bump Features Seamless network automation

- ✓ MTS-3200 16 input + 16 output closure interface for satellite closures
- ✓ Broadcast Tools 8x2 switcher for audio switching and mixing
- ✓ Pentium Class Audio Server with Digigram 1 record x 4 play audio card Windows NT Server RAID audio storage operational redundancy
- ✓ 7300 Stereo Min. (MPEG-2 or MP-3, 44.1 @ 256 kbits/sec) CD Quality Audio
- ✓ On Air Pentium Class Computer with OpLOG-32 Software
- ✓ Production Pentium Class Computer, Digigram Audio Card, MultiTrack Editor CD Ripper, Voice Tracking and On Air emergency backup

On Air:

- OpLOG-32 Sat-Net control software with auto fill, bump and audio stretch/shrink features 24 Hot Buttons for live or drop liners for satellite
- MediaDISK-32 software with MPEG-2 or MP-3, waveform editing
- US Robotics 56K modem and PC Anywhere for remote support
- SAW multi-track editor with Digigram audio card

Other Standard Features:

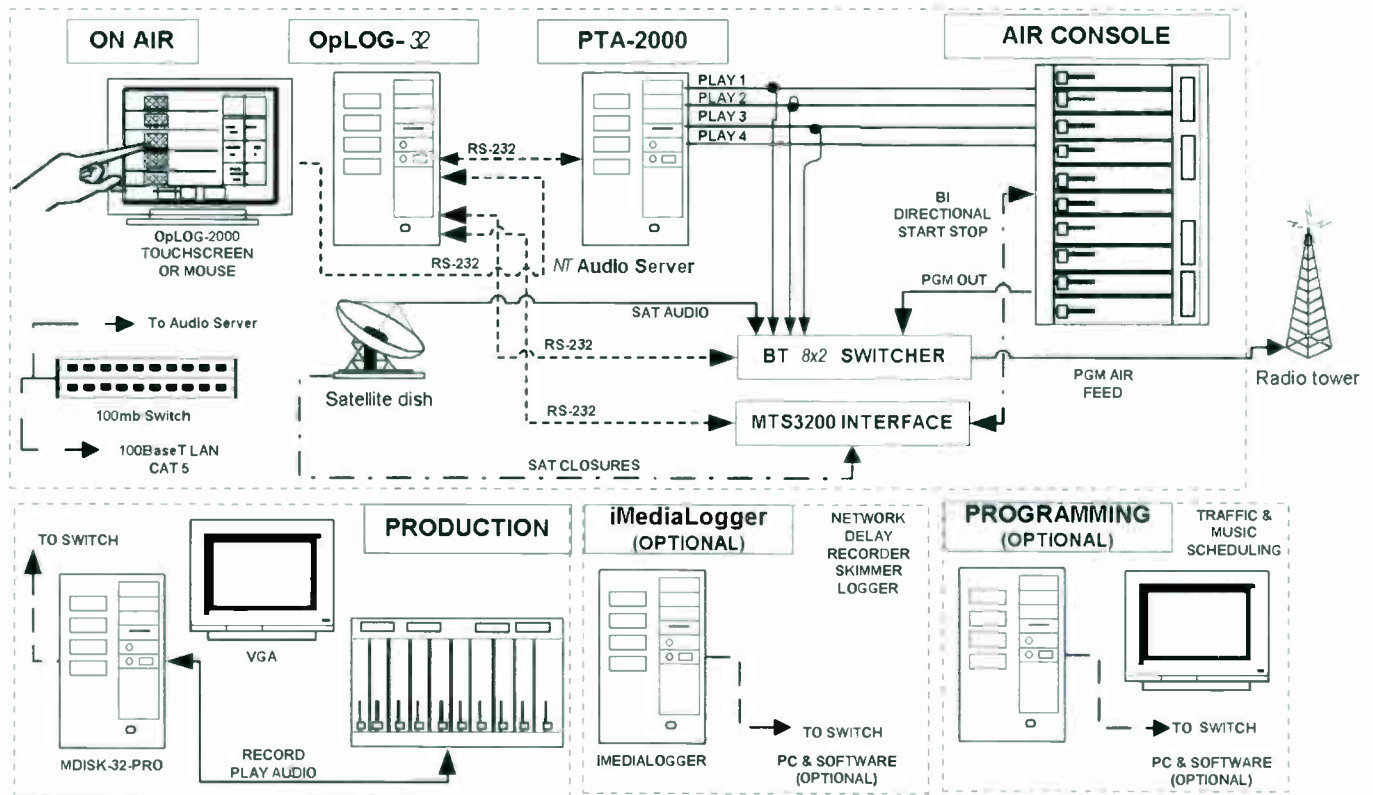
- OpLOG Log Tools Kit included
- Printed Manuals, 90 days telephone training and 1 year weekday telephone support included
- 1 year warranty on OMT software, 3 year warranty on Compaq computer
- Software pre-loaded and tested by OMT
- Just add the audio and network wiring!

Options:

- Upgrade to a 15" LCD Touchscreen --- \$1,799.00
- Upgrade to a 17" VGA Touchscreen --- \$1,299.00
- Add MusicMaster LT Music Scheduler --- \$795.00
- Upgrade Audio Server to RAID 5 or increase audio storage (quoted on request)
- Add iMedia Logger recorder, logger, & skimmer See Page 126 for pricing.
- 24/7 Toll Free Telephone Support: call for packages

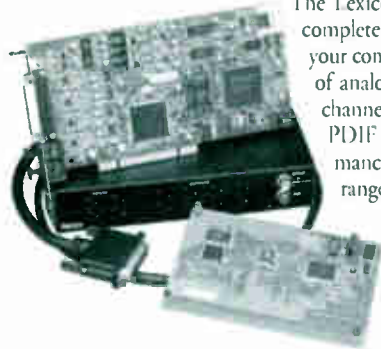
Complete System Starting at \$2,995.00
Software (Disk) starting at \$200.00

OpLog 32 Sat Net Schematic



Recorders/Players • Computers

Lexicon Core2 Desktop Audio System



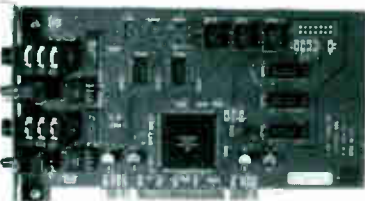
The Lexicon Core2 Desktop Audio System offers complete, powerful and affordable interfacing for your computer, with connections for four channels of analog in, eight channels of analog out, eight channels of ADAT™ digital I/O, and a stereo S/PDIF pair. Beyond powerful I/O, audio performance is the highest quality, with ultra wide-range 24-bit A/D and D/A converters featuring selectable dbx Type IV™ soft knee limiting on every input channel to simulate tape compression and provide 4dB of improved headroom. The Core2 System ships with Syntrillium's Cool Edit Pro/SE™. An optional MP-100

daughterboard for the Core2 includes all of the effects found in the Lexicon MPX 100 Dual Channel Effects Processor: Chorus, Flange, Pitch, Detune, Delay, Echo, Rotary, Tremolo, Lexicon Reverb and Ambience.

Core2 Desktop Audio System \$499.00

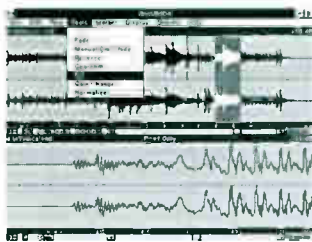
Lucid PCI24 Audio Card

The Lucid PCI24 streamlined card for high-quality jobs. Here is a superb way to transfer digital audio to and from your Windows and Macintosh PCI-bus computers. This PCI-bus plug-in card lets you make direct digital connections from your computer to a DAT machine, outboard A/D and D/A converter, sampler, or any other digital audio device with industry-standard prosumer S/PDIF ports or professional AES/EBU ports. And the PCI24 comes bundled with a free copy of Sound Forge XP4.5, the popular audio editing software. PCI24 Key Features: AES/EBU and S/PDIF digital I/O • 48kHz, 44.1kHz, and 32kHz sample rates, with real-time sample rate conversion on inputs • Compatible with Lucid ADA1000 or any outboard A/D and D/A converter, including DAT machines and CD players • Works with PCI bus-equipped Macintosh and Windows computers • Supports a wide variety of popular software applications • Bundled with a free copy of Sound Forge XP4.5 audio editing software for Windows systems.



PCI24 Audio Card \$449.00

Minnetonka Fast Edit



Software for Professional Sound Recording and Editing. Fast Edit works with mono or stereo .wav files, and runs with any Windows-compatible soundcard. This product allows Non-destructive editing while creating an edit history. Features Ultra-fast cut-and-paste, manual crossfade, sample-accurate editing, reversal overlays, fade-in and fade-out, and gain change. Reversal plays sounds backwards, while gearshift

acts as a varispeed dial in digital form. Fast Edit comes bundled with two additional powerful programs at no extra charge - - the Sound Catalog and the Playlist Editor. Sound catalog allows collections of soundfiles to be played quickly via assigned a hot-key on the computer keyboard, or fired by MIDI. Use Playlist to line up songs, news clips, or sound bites and play them in a certain order. Fast Edit gives you the features in an uncluttered, straight-forward layout.

Fast Edit \$199.00

SEK'D Samplitude Studio

Multi-track Recording Software

SEK'D Samplitude Studio transforms your computer into a complete, high quality recording studio. Along with any Windows compatible sound card, you can record, playback and edit digital audio at either 16-bit or 24-bit resolution, at sample rates of 11kHz, 22kHz, 32kHz, 44.1kHz or 48kHz. Exceptional sound quality is achieved using 34-bit floating point precision in the processing and storage of audio. And you can burn your Red Book CD directly from the software. Key features: multi-track hard-disk recording • unlimited inputs and outputs • professional studio effects • direct X-Support for plug-ins • CD-mastering and CD burning • and more. Systems requirements: IBM-compatible PC, min. Pentium 166Mhz • Window™ 95/98, Windows™ NT • 16-bit or better sound card • CD-ROM and floppy drive.



Samplitude Multi-track Recording Software \$499.00

Sonic Foundry Software

Sonic Foundry ACID 2.0

The Sonic Foundry ACID™ is a loop based music production tool. Combine any of the hundreds of loops included with ACID or import .WAV or .AIF loops to create custom music in minutes. ACID can preview any loop before adding it to the mix, automatically matching the tempo and pitch in real time. Click and drag to easily add or delete loops. Add volume, pan and effect envelopes to each track to create the perfect mix every time. To add finishing touches, apply multiple real-time effects with DirectX Audio Plug-Ins. ACID is a great alternative to music libraries, giving you total control over the music.



ACID 2.0 Music Production Tool \$399.00

Sonic Foundry's Sound Forge® 4.5



Sonic Foundry's Sound Forge® 4.5 software for Windows® contains an extensive set of audio processes, tools and effects for manipulation of audio. Combine Sound Forge 4.5 with any Windows compatible sound card to create, record, edit and refine production. The clean interface and familiar Windows environment make editing easy. Sound Forge has built-in Video for Windows support, making it possible to edit sound events to video with frame accuracy. Its expandable plug-in architecture supports DirectX Audio Plug-Ins.

Forge4.5 Digital Audio Editing in Windows® \$499.00

Sonic Foundry's Noise Reduction

Sonic Foundry's Noise Reduction Plug-In analyzes and reduces low-level background noise such as tape hiss, electrical hum, pops, clicks even stretched tape distortion with minimal effect on the source material.

Noise Reduction \$399.00



Sonic Foundry's Acoustic Mirror



Sonic Foundry's Acoustic Mirror Plug-In is a signal processing tool that adds acoustical coloration of real environments and sound altering devices to existing recordings. Acoustic Mirror can simulate responses varying from large concert halls to the vintage sound of old tube microphones.

Acoustic Mirror \$249.00

Sonic Foundry's CD Architect

Sonic Foundry's CD Architect is the perfect solution for recording professional audio CDs on Windows NT and Windows 9x. CD Architect includes a sound editor with dozens of professional effects and tools to process sound files. CD Architect supports most popular CD recorders.

CD Architect \$299.00



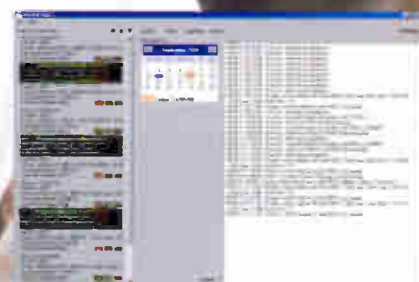
HOW WOULD YOU LIKE YOUR MEDIATOUCH?



**QuicPix
Cart Replacement**



**OpLOG 2000
Automation**



**iMediaLogger
Digital Logger**

Just like no two appetites are the same, no two radio stations are the same. That's why at MediaTouch we cook up our digital audio systems to order so your station gets all the right ingredients.

Only MediaTouch gives you the MAIN advantage - Music, Automation, Internet, and News. With these building blocks of digital radio, you can rest assured your MediaTouch system will be able to grow as technologies do. And we stand behind our systems with 24/7 live technical support.

Call us today. There's something on our menu for everyone.



Broadcasters General Store
800 636 0123



MediaTouch

888 665 0501

www.mediatouch.net

World Radio History

Burn Rubber.



Short/cut 2000
PERSONAL AUDIO EDITOR

You want speed? YOU GOT IT!

360 Systems' new **Short/cut 2000 Editor** features split-second edits for news, call-ins, and live events. Plus, you'll get industry-wide file interchange, a full slate of editing features, and unparalleled ease of use.

Easy Upgrade!

Now you can upgrade your existing **Short/cut editor** to the speed and power of **Short/cut 2000**.



360 Systems®

PROFESSIONAL DIGITAL AUDIO

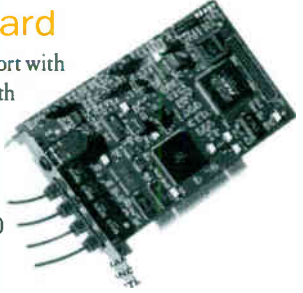
Corporate Office: 5321 Sterling Center Drive, Westlake Village, CA 91361
Tel: (818) 991-0360 Fax: (818) 991-1360 Website: www.360systems.com email info@360systems.com

Recorders/Players • Computers

Sonusor STUDI/O PCI card

Sonusor STUDI/O™ PCI card has: direct support with logic audio on the MAC, ASIO2 support for both MAC & PC, "Rock Solid" NT4 drivers, and ADAT Sync with the optional Sync Backplate on both PC & MAC.

STUDI/O PCI card \$849.00



Sound Ideas Sound Effects Libraries

Sound Ideas Sound Effects Libraries offers: 32 different collections • over 400 CDs • more than 50,000 different sound effects • and free search software for PC and Mac. For a complete listing go to www.bgsfl.com to link to the Sound Ideas web site where you'll find demos or call BGS for your free SFX Demo disk.



1-The Production Music Library now has over 125 CDs featuring: 22 distinct musical categories • comprehensive Audition CD ROM which allows you to hear tracks instantly • and all updates are included with any Full Lease at no extra charge.

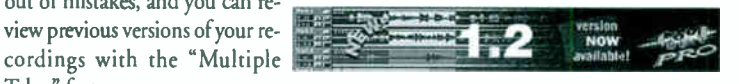
2-The Turner Broadcast Music Library, includes: 15 CDs • fully orchestrated music • 8 categories: News, Sports, Drama, Comedy, Showbiz, Jazz, Rock and Lite. • and 10 year royalty-free lease for only \$595.00.

3-Beatbox, the newest music collection includes: 12 New CDs • all-natural instrumentation • 7 categories: National, Sports, Drama, Grooves, Rock, Corporate and Lifestyle. • and an annual lease rate of only \$500.00 which includes all Beatbox updates.

4-The Mix, is a series of 6 music libraries containing: 47 CDs of great 30s, 60s & Full-Lengths • production elements (on Mix I and Mix III) • full length themes on Mix V & VI • low buyout price of \$495.00 each for Mix I, Mix II, Mix IV, Mix V and MixVI or \$395.00 for Mix III.

Syntrillium Cool Edit Pro

Syntrillium Cool Edit Pro™ is a digital audio recorder, editor, and mixer for Windows. Record, play, convert, and edit files up to 2GB in size and supports more than 25 audio formats. Potent array of Audio Effects modules, including Reverb, Multitap Delay, 3D Echo, Equalizers (Graphic, Parametric, Scientific, and "Quick"), Compression, Chorus, Flanger, Distortion, Convolution, Pitch change, Tempo change, and more - many with Real-Time Preview! The Noise Reduction, Hi s s Reduction, and Click and Pop Eliminator are powerful tools for cleaning up older, problem recordings. No special hardware is required to mix up to 64 tracks simultaneously. Other important features include: Time Display Window, level meters, clip indicators, Mute/Solo/Record color coding; Volume and Pan envelopes; Loop, Crossfade, Zoom, and "Snap" functions. SMPTE/MIDI slave capability lets you integrate your mix with video and MIDI sequencers. Multiple Undo lets you back out of mistakes, and you can review previous versions of your recordings with the "Multiple Takes" feature.



Cool Edit Pro \$399.00

Telos Assistant Producer Talk Show

Management Software for Windows

Telos Assistant Producer Talk Show Management Software for Windows® now allows producers and talent to manage callers while maintaining constant communication with each other. Assistant Producer completes Telos Systems' advanced multiline talk show systems by addressing the need for Windows-based client/server call screening software. This system handles a variety of studio environments, and enables producers to provide talent with information on each caller, send instant messages, and control the status of multiple telephone lines. Assistant Producer can handle up to 20 callers at a time, maintaining status of the call, caller name, city of origin, and notes, making communication between the producer and talent seamless. Additionally, the Windows platform allows the system to be networked through an ethernet, intranet, or even a password-coded Internet system, allowing access by station management or access from remote locations. An instant messaging feature enhances the efficiency of communication, and adds to the smoothness of the show. Any Telos multiline interface product can be easily integrated with maximum control and flexibility through the user-friendly Windows environment, ensuring the quality and efficiency of any talk show.



Assistant Producer Talk Show Management Software \$520.00

Yamaha DSP Factory Digital Mixing Card

Yamaha DSP Factory is a unique range of audio card and expansion components that, with special control software (ie. IQS, Minnetonka, SEK'D, & Sonic Foundry control software) literally turn a standard personal computer into a truly professional digital multitrack recording and mixing system. At the heart of the DSP Factory is the DS2416 Digital Mixing Card with powerful recording, mixing and sound processing engine built right in. The DS2416's mixer provides the power of the Yamaha 02R digital mixer and much more on a desktop platform. This includes 24 channels of digital mixing with a full range of on-board digital effects and dynamics processor, along with everything else professionals need, including 16 tracks of 34-bit hard disk recording. A built-in audio-streaming engine provides 8-tracks of simultaneous recording and 16-tracks playback of up to 32-bit audio to and from the computer's disk drive. On-board effects include 12 reverb types, 11 modulation types, 2 distortion types, 3 dynamics types, and 12 special combination types. What's more, unlike most other audio cards, the DS2416 runs on its own power and not the computer's CPU, which ensures that all functions of the card are available simultaneously, to provide a level of flexibility and performance previously not possible. Optional expansion units permit multiple-channel audio connections to and from the DS2416 to provide for connection of multi-channel digital equipment such as outboard digital multitrack recorders and signal processors.



DS2416 Digital Mixing Card \$999.00
AX44 Audio Expansion Unit \$299.00
AX16-AT Audio Expansion Card \$299.00

Recorders/Players • Digital

360 Systems Instant Replay

Professional Audio Recorder/Reproducer

Now includes Editing features!



The 360 Systems Instant Replay is a fully professional audio recorder that can store up to 24 hours of 20kHz stereo audio and up to 1000 cuts on its internal hard drive. 500 of these cuts can be stored in 10 banks and each bank of 50 cuts can be "Mapped" to the 50

"Hot Keys" and may be recalled by typing in the cut number, part of the cut's name or all of the cut's name. Cuts are imported via standard analog inputs (XLR), digital AES/EBU ports (XLR), digital IEC-958 II ports (RCA) and includes D-Net file transfer system. Each "Hot Key's" audio is loaded into a ram buffer for instant sound at the touch of the button. Cuts can be stacked, looped, paused, stopped or initiated from the beginning as fast as you can hit the button. In the studio or on the road, Instant Replay is fast, fun and easy to use.



- DR-554-E 24 Hours of Internal Storage \$3,250.00
- GB-TP-IR Gig Bag for Instant Replay \$115.00
- DR-TEMP Legend Overlays for Instant Replay Hot-Keys (50/Pack) \$30.00

360 Systems Short/cut

Two Track Recorder & Editor

The New Short/Cut 2000 now features split-second edits!

360 Systems Short/cut Editor

is the perfect choice for two track recording and editing in news, production and on-air applications. It delivers superior audio quality, true cut and paste waveform editing, massive hard disk storage and support for external removable media drives.

It even has built-in speakers and ten Hot-Keys™ for instant play-back of edited material in the studio, or on the road. Some of the newer features include: variable length cross-fade • programmable fade in and fade out • gain adjustment of selected audio with ramping • .WAV, .BWF and .AIFF file import

and export • external sample rate synchronization • and D-NET™ file transfer.



- SC180-3 4 Hours of Internal Storage \$3,495.00
- GB-TP-SC Gig Bag for Short/cut \$110.00

360 Systems DigiCart/II Plus

Digital Recorder/Reproducer

New Larger Storage!



The 360 Systems DigiCart/II Plus records to hard disk or Zip, in mono or stereo, with Dolby AC-2 or in 16-bit linear, and with impeccable quality. The DigiCart/II Plus now features massive storage with up to 116 hours of audio on its new larger standard hard drive. Even larger drive models are available for up to 232 hours of storage. Edits are fast, easy and non-destructive. And when a Zip disk moves finished work to another show, the edit markers go with it, along with the title, ID number, and running time. DigiCart/II Plus is Automation Ready, and is a proven solution to the needs of TV master control or radio. A set of GPI inputs also lets DigiCart work with fader-starts, remote buttons or satellite commands. A revised ES-Buss port permits serial control, and the leading names in broadcast automation offer interfaces. With DigiCart, it's easy to line up a second cut while another is playing. Rapid playlisting tools can build sequences, store them for future use, and make changes at any time. For spot sets, select Linear Playlists that play straight through in sequence. For TV master control, Rotating Playlists cue a new announcement or tag with each new trigger. Three remotes offer the degree

of control that is optimum for your application. All remotes offer "Hot Keys" for instant access to sixteen or more selected cuts, as well as transport controls. The RC-205 includes a keyboard for adding titles, while the RC-210 and RC-220 models include a display and additional keys for locating cuts and creating playlists.

- D-2750-15 DigiCart/II Plus w/116 Hours of Dolby AC2 \$4,495.00
- D-2750-20 DigiCart/II Plus w/154 Hours of Dolby AC2 \$4,750.00
- D-2750-30 DigiCart/II Plus w/232 Hours of Dolby AC2 \$4,995.00
- RS-12 Rack shelf for one or two DigiCarts (4U) \$149.00

- RC-205 Mini Keyboard Remote Control \$130.00
- RC-210 Play Only Remote Control \$645.00
- RC-220 Full Function Remote Control, controls up to 4 units \$795.00
- D-RCA-59 RC-220 Four-Way Splitter Cable, Use to connect up to four DigiCarts to one RC-220 \$25.00
- D-M5-1035 Spare Standard Serial Cable for RC-210 or RC-220, Order as spare, or to use with RCA-59 to connect multiple DigiCarts to one RC-220 \$15.00
- D-RCA-259 Serial Cable for RC-210 or RC-220 with DC Power Connector, Allows placement of R/C DC power supply near DigiCart unit \$45.00

Call Broadcasters General Store for upgrade kits for older DigiCarts and further information! (Serial Numbers must be supplied to verify compatibility.)

Recorders/Players • Digital

360 Systems TCR Series Production Recorders



The 360 Systems TCR Series are Production Recorders, designed specifically for TV broadcast, video production and professional audio recording. TCR recorders aren't just "play" machines for dubbing; they include many production features such as auto-locate, seamless punch-in, read-modify-write, looping, editing, and offsets, that make them a first choice as primary studio recorders. TCR can accept an internal hard disk of unlimited size, with individual file size extending to the 24-hour limit of SMPTE/EBU time code. TCR recorders include a DVD-RAM drive, providing several hours of low-cost file storage and a 30 year archival life. Additionally, a 250MB Zip™ drive is provided for storage of shorter files and to support downloads of new software revisions. As an option to DVD-RAM, the TCR's 5-1/4" drive bay will accept many user-selected drives, including removable hard disks, magneto optical and other emerging high-density cartridges. A rear-panel SCSI port connects as many as five additional drives to the TCR system. To avoid rapid obsolescence, new audio systems need to be actively reconfigured to best execute the task being performed. Much of TCR is programmable Flex® Logic, which can be reconfigured under software control. Not only new software, but also new "hardware tools" can be loaded through the built-in Zip® drive. 360 selected 24-bits as the standard word size for all TCR recordings; optional 16 and 20-bit outputs can be selected for compatibility. And on digital I/O paths, sample rates extend all the way to 96kHz. Precise 14-segment LED metering shows each channel's level, with provisions for switching between different headroom standards. TCR recorders include a complete set of SMPTE/EBU time code capabilities. They can lock to all common NTSC and PAL sync formats, including LTC, VITC, word clock, AES/EBU, internal crystals, or the multi-machine buss. A wide range of audio sample rates may be generated, including ±1% pulls and accurate varispeed rates. Most standard editing operations can be performed right on TCR. These include Cut, Copy, Insert, Erase, Undo, and time offsets for individual tracks, and for the entire machine. The TCR8 is designed for synchronous recording and playback in video, TV production, cinema sound and broadcast. It's also an ideal choice as a target recorder in surround-sound production, handling 6 channel (5.1), plus Lt-Rt. This 8-track can record an entire working day of 24-bit audio without reloading media. The TCR4 answers the need for a machine to replace time code DAT and "audio-only" VTRs. It includes the 3rd and 4th tracks so often needed in video production, and provides greatly improved audio quality, cost-effective removable media, and the instant response of a hard disk recorder.

- TCR4 4-Channel, 24-bit Synchronous Digital Audio Multi-Track Recorder \$4,995.00
- TCR8 8-Channel, 24-bit Synchronous Digital Audio Multi-Track Recorder \$5,995.00
- TCHD-18 18Gb Internal HD replaces 9Gb \$525.00
- TCHD-36 36Gb Internal HD replaces 9Gb \$1,095.00
- TCHD-50 50Gb Internal HD replaces 9Gb \$1,495.00

Other options available - please call for further information and pricing!

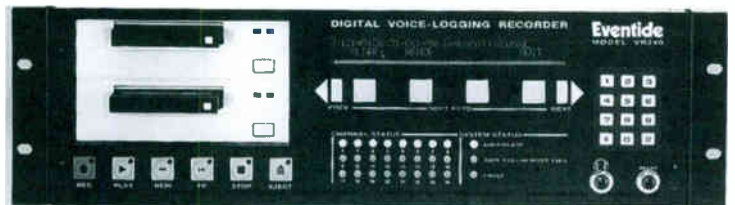
Denon DN-F20R Pro Compact Flash Field Recorder

The DENON DN-F20R portable IC recorder uses IC memory cards as the recording medium, doing away with cumbersome mechanisms and enhancing reliability. Two card slots provide recording flexibility. Recordings on the DN-F20R are created as sound files in MPEG format, the international standard, which can be ported to a PC for editing and manipulation. 'Xtrack' editing window DN-F20R has 2 slots for CompactFlash cards. * 'PCX' MPEG board and 'Xtrack' software are not included in DN-F20R carton. Features include: the IC memory card complies with the international standards for the CompactFlash card 1 and supports large memory capacity of 192 MB • use of the MPEG international standard enables high compression and high sound quality • linear PCM recording is also supported (WAVE file recording) • XLR terminals are used for L+R mic inputs • compact, easy-to-carry A5 size even with XLR terminals • since the memory card is 16 bit FAT formatted, it can be read and written to by a PC system 2, 3 • sound quality can be selected (in recording bit rate) to suit the application, enabling efficient use of the card • uses 6 AA batteries, easily purchased while on the road • a wired remote control jack. Editing features include: when a Digigram MPEG board and editing software are installed on a PC, the PC can then be used as an editing terminal • Digigram MPEG board (PCX series) and editing software (Xtrack) can be used to edit sound data waveforms in their compressed form after they have been recorded by a DN-F20R.



DN-F20R Portable IC Recorder \$1,299.00

Eventide VR/VP Digital Studio Logging Recorder/Player



Eventide Digital Studio Logging Recorder/Player, uses digital DAT-based technology that revolutionized communications audio logging, and is now available in a compact 4-channel unit. Each data grade 120 meter DAT tape has a capacity of 500+ hours, divided among up to four channels. The VR204 recorder is also equipped with a hard disc memory module with a capacity of approximately 30 channel-hours. Tapes recorded on the 4-channel VR204 can be played back on the 24-channel VR240. The VR204 recorder/player and VP204 playback deck bring the many advantages of digital logging to new applications and an even broader group of users.

Prices begin at \$6,495.00 - \$16,740.00

MediaTouch iLogger See Page 126!

Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com

Recorders/Players • CD-R & CD-RW

CD-R & CD-RW Features	Denon CDR-1000P	Fostex CR300	HNB CDR800	HNB CDR850	HNB CDR850+	Marantz CD-R/RW 631	Marantz CD-R/RW 500	Pioneer PDR-509	Sony CDR-W33	Tascam CD-RW-700	Tascam CD-RW-2000	Yamaha CDR 1000
Single Well CDR		Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes
Dual Well CDR+CD		-	-	-	-	-	Yes	-	-	-	-	-
CD-TEXT Display + Encoding		-	-	-	-	Yes	Yes	-	Yes	-	-	Yes
Rackmount	2U	2U	3U	2U	2U	2U	2U	-	2U	2U	2U	2U
Recording Functions												
Audio RAM Buffer	-	-	743ms	743ms	743ms	Yes	Yes	-	-	Yes	Yes	Yes
Sample Rate Converter (SRC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Auto Start (CD Sync)	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Fade-In/Fade-Out	Yes	Yes	Yes	Yes	Yes	-	-	Yes	Yes	Yes	Yes	-
Analog Record Level Control	-	Yes	Yes	Yes	Yes	Yes	Yes	Auto	Yes	Yes	Yes	Yes
Digital Record Level Control	-	-	-	-	-	Yes	Yes	Yes	Yes	Yes	Yes	-
Record Balance Control	-	Yes	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes
Record Mute	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-	-	Yes
High Speed (2X) Copy	-	-	-	-	-	-	Yes	-	Yes	-	-	-
Playback Functions												
10-Key Pad		Remote	-	-	-	Yes	-	-	Remote	Yes	Yes	-
Program Play	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Repeat Play	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Random Play	Yes	-	-	-	-	Yes	Yes	Yes	Yes	-	Yes	Yes
Input/Output												
RCA Analog In	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
RCA Analog Out	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
XLR Analog In	-	Yes	Yes	Yes	Yes	Yes	Yes	-	-	-	Yes	Yes
XLR Analog Out	-	-	-	Yes	Yes	-	-	-	-	-	Yes	Yes
Coaxial/RCA (SPDIF) Digital I/O	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Coaxial/RCA Loop Out	-	-	-	-	-	Yes	Yes	-	-	-	-	-
Optical (SPDIF) Digital I/O	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
XLR (AES/EBU) Digital In	-	Yes	Yes	Yes	Yes	Yes	-	-	-	-	Yes	Yes
XLR (AES/EBU) Digital Out	-	-	-	-	Yes	-	-	-	-	-	Yes	Yes
GPI Control Port	-	Yes	Yes	Yes	Yes	-	-	-	-	-	Yes	Yes
Headphone w/level control	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote Control												
Remote Control/Type		I/R	I/R	I/R	I/R	I/R	I/R	-	Wired I/R	I/R	Wired I/R	I/R
Prices	\$749	\$1099	\$1595	\$1195	\$1595	\$749	\$849	\$349	\$799	\$749	\$1125	\$1,799

Denon CDR-1000P



Fostex CR300



HNB CDR800



HNB CDR850



Marantz CD-R/RW611



Marantz CD-R/RW500



Pioneer PDR-509



Sony CDR-W33



Tascam CD-RW700



Tascam CD-RW2000



Yamaha CDR1000



Tascam CDR Deluxe

The Tascam CD-R624 is Tascam's solution for professional CD mastering on either the Macintosh or Windows platform. The bundled software is reliable and easy to use. The package includes cabling, blank media, tutorials, and even a CD labeling kit. The CD-R624 allows you to create data CDs to back up your computer, and create MP3 audio files for internet distribution or use in MP3 personal players. Features include: 6x, 24 read TEAC CD-R drive, burns 100% Red Book compliant audio CDs, burns popular Data CD formats, and MP3 audio encoder/player.

CDR Deluxe \$629.00

Recorders/Players • Compact Disc

Denon DN-951FA



Denon DN-961FA



Denon RC-680



Sony CDP-3100



Denon DNC-630



Marantz PMD-321



Sony CDP-XE500



Sony CDP-D500



Marantz PMD-350R



Tascam CD-305



Marantz PMD-330



Marantz PMD-331



Marantz PMD-340



Tascam CD-700



Technics SLP-G480A



CD Players	Analog Out	Note 1 Digital Out	Note 2 D/A Converter	Jog Wheel	Parallel I/F	Serial I/F	Pitch Control ±	Track Select	Index Select	Cue to Music	Head- phone Jack	Tally	Fader Start	Rack Mount/ Depth	lbs.	Warranty Part/Labor	Other Accessories & Remarks	Price
Denon DN-600F	RCA	SC	18bL	—	—	—	12%	Yes	—	—	Yes	—	—	2Ux10.5"D	8.4	1/1	RC41 Watch Control \$100 or RC251 Remote Control \$50	\$449.00
Denon DN-T620 Cassette Combo	RCA/XLR	—	16bL	—	—	—	12%	Yes	—	—	Yes	—	—	3Ux9.9"D	13.2	1/1	RC620 Wired R/C \$140	\$649.00
Denon DN-C630	RCA/XLR	SC	18bL	Yes	Yes	—	9.9%	Yes	—	Yes	Yes	Yes	Yes	2Ux10"D	12	1/1	RC680 Wired R/C \$130	\$599.00
Denon DN-C680	RCA/XLR	A/SC	18bL	Yes	Yes	—	9.9%	Yes	Yes	Yes	Yes	Yes	Yes	3Ux10.5"D	10	1/1	RC680 Wired R/C \$130 ACD-25fsc Sampling Rate Converter Outputs \$250 ACD-27CS SMPTE TC Kit \$550	\$899.00
Denon DN-951FA	XLR	A	18bL	—	Yes	Yes	3%	Yes	Yes	Yes	Yes	Yes	Yes	3Ux1/3Rwx15.75"D	12	1/1	RC680 Wired R/C \$130	\$1,500.00
Denon DN-961FA	XLR	A	18bL	—	Yes	Yes	3%	Yes	Yes	Yes	Yes	Yes	Yes	3Ux1/3Rwx15.75"D	12	1/1	RC680 Wired R/C \$130	\$1,500.00
Marantz PMD-320	RCA	SC	16bL	—	WRC200	RC-5	12%	Yes	—	—	Yes	—	Yes	2Ux11.5"D	7	1/90		\$329.00
Marantz PMD-321	XLR	A/SC	16bL	—	WRC200	RC-5	12%	Yes	—	Yes	Yes	—	Yes	2Ux11.5"D	7	1/90		\$429.00
Marantz PMD-330	RCA	SC	16bL	—	—	RC-5	12%	Yes	Yes	Yes	Yes	—	Yes	2Ux12.8"D	10.6	1/90	Note 3 Below	\$429.00
Marantz PMD-331	RCA/XLR	A/SC/SO	16bL	Yes	Yes	RC-5	12%	Yes	Yes	Yes	Yes	Yes	Yes	2Ux12.8"D	10.8	1/90	Notes 3 & 4 Below	\$629.00
Marantz PMD-340	RCA/XLR	A/SC/SO	16bL	Yes	Yes	RC-5	12%	Yes	Yes	Yes	Yes	Yes	Yes	2Ux12.8"D	10.8	1/90	See Notes 3 & 4 Below Includes Heavy Duty CD Mechanism	\$789.00
Marantz PMD-350 Cassette Combo	RCAx3	SC	16bL	—	WRC200	RC-5	12%	Yes	—	Yes	Yes	—	Yes	3Ux12"D	14	1/90	XLR350 Balancing Kit \$179	\$749.00
Marantz PMD-370	RCA	N/A	16bL	—	WRC200	RC-5	—	Yes	Yes	—	—	—	—	3Ux15"D	15	1/90	5-Disc CD Changer	\$399.00
Sony CDP-3100	XLR	A	18bL	—	Yes	—	12.5%	Yes	—	Yes	Yes	—	Yes	3Ux1/2RWx16"D	15	1/90	CDS3100 Remote Control \$1,975	\$3,975.00
Sony CDP-D500	RCA/XLR	A/SC	18bL	Yes	Yes	Yes	12.5%	Yes	—	Yes	Yes	—	—	3Ux13"D	16	1/90		\$1,750.00
Sony CDP-XE500	RCA	SO	Pulse Hybrid	Yes	—	—	—	—	—	Yes	Yes	—	Yes	2Ux14.5"D	7	1/90	Remote Control Included	\$200.00
Tascam CD-150	RCA	—	16bL	—	—	—	6%	Yes	—	—	Yes	—	—	2Ux12"D	9.7	1/90	Remote Control Included	\$299.00
Tascam CD-305	RCA/XLR	SC	16bL	—	—	—	—	Yes	—	—	—	—	—	3Ux18.5"D	16	1/90	Remote Control Included	\$650.00
Tascam CD-450	RCA	SC	16bL	—	—	—	12%	Yes	Yes	Yes	Yes	Yes	Yes	2Ux12.2"D	11.2	1/90	LA-450 output kit \$150 RC-450 wired remote-controller \$99	\$799.00
Tascam CD-A500 Cassette Combo	RCA/XLR	SC	16bL	—	—	—	12%	Yes	—	—	Yes	—	—	3Ux11.6"D	14	1/90	Remote Control Included	\$450.00
Tascam CD-A700	RCA/XLR	SC	16bL	—	—	—	12%	—	—	—	Yes	—	—	3Ux20"D	15	1/90	Wireless Remote Included	\$829.00
Technics SLP-G480A	RCA	SO	MASH 1bL	—	—	—	—	Yes	—	Yes	—	—	—	2Ux11"D	7	1/90	Wireless Remote Included	\$149.95

Key--

Note 1 - Digital Out
A=AES/EBU (AES3-1992 XLR)
SO=Optical S/PDIF (Toslink)
SC=RCA Coaxial S/PDIF (IEC 958 Type II)

Note 2 - b L = bit Linear
per Channel

Note 3: PMD330/331/340 include:
CD-RW Playback, CD-Text Display,
10-Key Track Select Pad, Cue-to-
Index, Programmable Preset Menu,
Fade In/Out, & A-B Loop Play

Note 4: PMD331/340 include:
Instant Start, 10sec Shock
Protection & Pitch Bend ±8%

Recorders/Players • DATs



DATS	Note 1 Sample Rate	A/D Converter	D/A Converter	Analog I/O	Note 2 Digital I/O	Long Play Mode	SCMS Defeat	SMPTE T/C	Time Date Recording	Serial Port	Parallel Port	RAM Buffer	# of Heads	# of Motors	Vari-Speed	Head-phone Jack	Head Hour Meter	External Sync	Rack Mount	lbs.	Warranty Part/Labor	Other Accessories & Features	Price
Fostex PD-4v2	B/C/D	18-bitDS	18-bitDS	XLR	XA	—	—	Yes	—	—	—	—	4	3	—	Yes	—	—	Portable	7	1/1	AC adapter for modules	\$7,395.00
Fostex D-5	A/B/C	1-bitDS	1-bitDS	XLR	XST	Yes	Yes	—	—	—	Yes	—	2	4	—	Yes	—	—	3Ux13"D	15	1/1		\$1,029.00
Fostex D-15	B/C	18-bit	20-bit	PCAXLR	PCAXLR	—	Yes	—	—	Yes	Yes	—	4	4	—	Yes	—	Opt	3Ux12"D	24	1/1	D15TC \$3,790 w/RS422 \$3,185	\$3,195.00
Fostex D-25	B/C	18bDS	18-bitDS	XLR	XA	—	Yes	—	—	Yes	Yes	Yes	4	4	Yes	Yes	—	Yes	3Ux19"D	29	1/1		\$7,995.00
Fostex D-30	B/C	18bDS	18-bitDS	XLR	XA	—	Yes	Yes	—	Yes	—	—	4	4	—	Yes	—	Yes	3Ux19"D	31	1/1		\$10,995.00
HFB PDR-1000TC	A/B/C	1-bitDS	1-bitDS	PCAXLR	XA/RS	—	—	Yes	Yes	—	Yes	—	4	4	—	Yes	—	—	Portable	5.3	1/1		\$6,395.00
Sony PCM-M1	A/B/C	16-bit	16-bit	3.5mm	7-pin	Yes	—	—	—	—	—	—	2	2	—	Yes	—	—	Portable	13oz.	1/90	AC 100V Adapter Included	\$1,040.00
Sony PCM-R300	A/B/C	1-bit	1-bit HCLC	RCA	RS/T	Yes	—	—	—	—	—	—	2	2	—	Yes	—	—	3Ux14"D	11	1/90		\$1,025.00
Sony PCM-R500	A/B/C	1-bitDS	1-bit HCLC	PCAXLR	XA/RS	Yes	Yes	—	Yes	—	Yes	—	2	4	—	Yes	Yes	—	3Ux14"D	13.6	1/90	SBM 20-bit performance from a 16-bit format/Wireless R/C Incl	\$1,765.00
Sony PCM-R700	A/B/C	1-bitDS	1-bit HCLC	PCAXLR	XA/RS	Yes	Yes	Yes	Yes	—	Yes	—	4	4	—	Yes	Yes	—	3Ux14"D	17	1/90	Wireless R/C Included	\$2,950.00
Sony PCM-7040	B/C	16-bit linear	16-bit linear	XLR	XA	—	Yes	Yes	Yes	Yes	Yes	—	4	4	Yes	Yes	—	Yes	3Ux14"D	21	1/90	Rack Mount Adapter RMM31 \$60	\$8,995.00
Sony TCD-D8	A/B/C	16-bit linear	1-bit HCLC	3.5mm	O	Yes	—	—	—	—	—	—	2	3	—	Yes	—	—	Portable	2	17	Super Bit Mapping Adapter SBM1 Opt	\$899.95
Sony TCD-D10PROZ	A/B/C	16-bit linear	16-bit linear	PCAXLR	A	—	—	—	Yes	—	—	—	2	4	—	Yes	Yes	—	Portable	4	21		\$4,525.00

Key-

Note 1 - Sample Rate:
A=32kHz
B=44.1kHz
C=48kHz

Note 2 - Digital I/O
A=AES/EBU
S=S/PDIF (Coaxial)
T=S/PDIF (Optical)



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World Radio History

Recorders/Players • DATs

Tascam DA-20MKII



Tascam DA-40



Tascam DA-302 Front



Tascam DA-60MKII Front



Tascam DA-302 Back



Tascam DA-60MKII Back



Tascam DAP-1



Tascam DAP1Accessories



Tascam DAP1Back



DATS	Note 1 Sample Rate	A/D Converter	D/A Converter	Analog I/O	Note 2 Digital I/O	Long Play Mode	SCMS Defeat	SMPTE T/C	Time Date Recording	Serial Port	Parallel Port	RAM Buffer	# of Heads	# of Motors	Vari-Speed	Head-Phone Jack	Head Hour Meter	External Sync	Rack Mount	lbs.	Warranty Part/Labor	Other Accessories & Features	Price
Tascam DA-20MKII	A/B/C	1-bit/DS	1-bit/DS	RCA	RCA	Yes	Yes	—	—	—	—	—	2	2	—	Yes	—	—	3Ux14"D	18	1/90	Wireless Remote Included	\$1,399.00
Tascam DA-302	A/B/C	16-bit	16-bit	RCA	RCA	Yes	—	—	—	—	—	—	4	4	Yes	Yes	—	—	3Ux14"D	16	1/90	LA-D302 Balancing Kit \$110 WR-7000 Syncro cable to allow cascade for 302 & DA302's \$17	\$1,899.00
Tascam DA-40	A/B/C	16-bit	16-bit	RCA/XLR	RCA/XLR	Yes	Yes	—	—	Yes	Yes	—	2	3	Yes	Yes	Yes	—	3Ux14.33"D	18	1/90	RC-D45 Wired R/C \$99	\$1,399.00
Tascam DA-45HR	B/C/D	24-bit	20-bit	RCA/XLR	RCA/XLR	—	Yes	—	—	Yes	Yes	—	2	3	Yes	Yes	Yes	—	3Ux14.7"D	19	1/90	RC-D45 Wired R/C \$99	\$2,165.00
Tascam DA-60MKII	B/C/D	1-bit/DS	20-bit	RCA/XLR	XLR	—	—	Yes	Yes	Yes	Yes	Yes	4	4	Yes	Yes	—	Yes	3Ux13"D	23	1/90	RC-D6 Remote Control \$245	\$6,999.00
Tascam DA-P1 <small>Includes: shoulder belt, AC adapter & one battery</small>	A/B/C	1-bit/DS	1-bit/DS	RCA/XLR	RS	—	Yes	—	—	—	Yes	—	2	2	—	Yes	—	—	Portable	4	1/90	BP-D1 Rechargeable Battery \$110 CB-D1 Ext. Battery Charger \$90 CS-D1 Carry Case \$140 PS-D1 Add'l AC Adapter \$140	\$2,099.00
Key-	<i>Note 1 - Sample Rate</i> A=32kHz B=44.1kHz C=48kHz				<i>Note 2 - Digital I/O</i> X=XLR R=RCA A=AES/EBU S=S/PDIF (Coaxial) T=S/PDIF (Optical)																		

Recorders/Players • Flash Field

Denon DNF-20R

The Denon DN-F20R portable IC recorder uses IC memory cards as the recording medium, doing away with cumbersome mechanisms and enhancing reliability. Two card slots provide recording flexibility. Recordings on the DN-F20R are created as sound files in MPEG format, the international standard, which can be ported to a PC for editing and manipulation. Features include: use of an IC memory card as the recording medium • IC memory card complies with the international standards for the CompactFlash card 1 and supports large memory capacity of 192 MB • use of the MPEG international standard enables high compression and high sound quality • linear PCM recording is also supported (WAVE file recording) • XLR terminals are used for L+R mic inputs • compact, easy-to-carry A5 size even with XLR terminals • since the memory card is 16-bit FAT formatted, it can be read and written to by a PC system 2, 3 • sound quality can be selected (in recording bit rate) to suit the application, enabling efficient use of the card • uses 6 AA batteries • and wired remote control jack.



DN-F20R Portable IC Recorder \$1,299.00



Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com



Recorders/Players • MD Recorders



The Denon DN-045R is a high speed (3.5x) MD dubber offering direct digital MD copying. Features include: suspension mechanism • shock memory • auto disc defragmenter • and Windows™ control software (ACD-20). 2U

DN-045R High Speed MD Dubber \$4,200.00



Denon DN-M991R



Sony MZ-B50



Marantz PMD-650R



Pioneer MD-J508



Denon DMD-1300P



Denon DN-M1050R



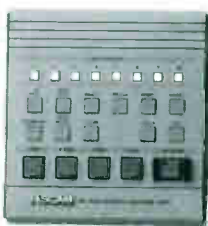
Sony MZ-B3

MD Recorders	Rack Mount	Jog Wheel or Dial	Vari-Speed ±	Head-Phone Jack	Long Play Rec/Mode	Built-In Speaker/Mic	Hot Start	Advance Memory Function	Fader Start	Analog In	Analog Out	Note 1 Digital In AES/SPDIF	Note 1 Digital Out AES/SPDIF	Remote Control	Remote Port	Weight lbs.	Price
Denon DMD-1300P	2U	—	—	Yes	—	—	—	—	—	RCA	RCA	SO	SO	IR	—	14	\$699.00
Denon DN-M991R	3U	Yes	8%	Yes	—	—	Yes	Yes	Yes	XLR	XLR	AES	AES	Parallel	Par/Ser	14	\$2,299.00
Denon DN-M1050R	3U	Yes	9%	Yes	—	—	Opt	Yes	—	RCA/XLR	RCA/XLR	SC/A	SC/A	Serial/Parallel	Par/Ser	15	\$1,999.00
Marantz PMD650	Portable	—	Yes	Yes	Yes	—	—	—	—	XLR	XLR	—	—	—	—	1	\$1,399.00
Pioneer MJD-508	3U	—	—	Yes	Yes	—	Yes	Yes	—	RCA	RCA	SC/SO	SO	IR	—	8	\$390.00
Pioneer MJD-707	3U	—	—	Yes	Yes	—	Yes	Yes	—	RCA	RCA	SC/SO	SO	IR	—	9	\$505.00
Sony MDS-B5	3U	Yes	12%	Yes	—	—	—	Yes	Yes	XLR/RCA	XLR/RCA	SC	SC	Parallel	Par/Ser	13	\$3,450.00
Sony MDS-E12	1U	Yes	Yes	Yes	Yes	—	Yes	—	Yes	RCA/XLR	RCA/XLR	SC	SC	Parallel	Par/Ser	11	\$870.00
Sony MDS-E10	1U	Yes	Yes	Yes	Yes	—	Yes	—	—	RCA	RCA	SC/SO	SC/SO	Yes	Serial	7	\$599.00
Sony MZ-B3	Portable	—	—	Yes	—	Yes	—	—	—	Mini Jack	Mini Jack	—	—	—	—	1	\$899.95
Sony MZ-B50	Portable	—	—	Yes	Yes	Yes	—	—	—	Mini Jack	Mini Jack	—	—	—	—	1	\$599.95
Sony MZ-R70	Portable	—	—	Yes	Yes	—	—	—	—	Mini Jack	Mini Jack	—	—	—	—	1	\$279.95
Tascam MD-301 MKII	2U	Yes	—	Yes	Yes	—	—	—	—	RCA	RCA/XLR	SC/SO	SO	Yes	—	13	\$970.00
Tascam MD-801 MKII	3U	Yes	9.9%	Yes	Yes	—	Opt	—	—	RCA/XLR	RCA/XLR	SC/A	SC/A	Yes	Par/Ser	18	\$2,699.00

Key-

Note 1 - Digital Ins & Outs
 A=AES/EBU (AES3-1992 XLR)
 SC=RCA Coaxial S/PDIF (IEC 958 Typell)
 SO=Optical S/PDIF (Toslink)

Tascam MD-301



Sony MDS-B5



Sony MDS-E12



Tascam MD-801MKII



Sony MDS-E10



1-352-622-7700

Recorders/Players • Digital Multitrack

AKAI DR16Pro Digital Recorder



AKAI's DR16 offers 24-bit, 96kHz, 16-track random-access editing. Features include: 24-bit, 20-bit, and 16-bit digital audio format • 96kHz,

48kHz, 44.1kHz and 32kHz sampling rate • 24-bit 128x oversampling ADC • 20-bit 8x oversampling DAC • instantaneous access to 109 autolocate points • link up to 8 DRs for up to 128 tracks • "Take" function for easy recording and auditioning of alternate takes • standard SCSI interface allows access to external drives including M/O and Jaz™; removable media drives. Internal 16-channel digital mixer features: 99-scene snapshot automation • full dynamic automation via MIDI • 2 aux sends • and stereo bus for internal digital mixdown. Inputs and outputs include: analog; 8 in/16 out with stereo master • switchable +4/-10dB line levels • balanced 1/4" TRS I/O • built-in mic preamps • digital; AES/EBU and S/PDIF • and Wordclock input.

DR16Pro	16-Track digital recorder w/16-channel mixer.....	\$4,295.00
DLX16	Remote w/Superview for DR16	\$2,495.00
SuperView	VGA interface card for DR8 & DR16	\$699.00
IB801S	SCSI interface	\$299.00
IB802T	SMPTE interface	\$379.00
IB803M	MIDI interface	\$299.00
IB805R	RS-422 interface	\$299.00
IB806B	Bi-phase interface	\$299.00
EQ8	8-Channel, 3 band parametric EQ board	\$550.00
EQ16	16-Channel, 3 band parametric EQ board	\$699.00

AKAI DPS12V2 12 Track Digital Personal Studio

The AKAI DPS12V2 digital personal studio combines a 12-track random access digital recorder with a professional quality uncompressed 16-bit sound and powerful nonlinear editing and a 20 channel (at mixdown) MIDI automatable digital mixer in one package. Features include: 12 audio tracks • 250 virtual tracks • can record 8 tracks simultaneously (6 analog/2 digital) • records onto internal removable media or external drives via SCSI-2 • 12 direct locate points • 100 stack locate points • 250 levels of undo • random access editing • 6 balanced analog inputs and 1 optical S/PDIF digital (stereo) input • 2 aux sends • 2 master stereo outputs (analog and optical S/PDIF digital) • digital EQ and more.



DPS12V2	12 Track Digital Personal Studio	\$1,649.00
DPS12V2S	Includes EB2M Stereo Multieffects Processor	\$1,949.00

Alesis ADAT-LX20 Digital Audio Recorder

The Alesis ADAT-LX20 offers the same 20-bit ADAT type II digital recording format as the XT20 recorder. Main features are: modular format for studio systems from 8 to 128 tracks • inexpensive, readily available S-VHS tape media • 5 location points with automated recording functions • ADAT optical digital interface • -10dBV unbalanced phono RCA jacks • and is compatible with all models of ADATS. 3U & 16lbs.



LX20	20-bit Digital Audio Recorder	\$1,899.00
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Alesis ML-9600 Digital Audio Recorder

NEW!

The Alesis MasterLink is destined to become the new standard for high-resolution two-track audio. A stand-alone system that



combines hard disk recording, digital signal processing, audio editing and compact disc creation/playback. Features include: standard formats from 16-bit, 44.1kHz to 24-bit, 96kHz • 4.3GB hard drive stores up to five hours of digital audio editing, mastering and finishing tools • sets precise start and end points to each track • apply real-time DSP-compression, equalization, limiting and normalization • compile 16 playlists with up to 99 songs each • full control of song order, track gain, fade-ins and fade-outs CD Recording and Playback • create and play back Red Book and CD24 discs • Red Book format: the worldwide CD standard (16-bit, 44.1kHz) • CD24: Hi-res AIFF-compatible CDs with your choice of resolution • offers 24-bit, 96kHz audio quality using low-cost CD-Rs • analog inputs and outputs (balanced XLR left/right, unbalanced phono left/right), digital inputs and outputs (balanced AES/EBU-compatible left/right, unbalanced S/PDIF-compatible left/right), and IEC power receptacle. Supplied accessories: infrared remote control, blank CD-R, rack ears, standard IEC power cord. 3U & 16.55lbs.

ML-9600	Digital Audio Recorder	\$1,699.00
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Alesis ADAT-XT20 Digital Audio Recorder



The Alesis ADAT-XT20 records eight tracks of true, linear 20-bit digital audio onto tape, without using external converters or multiplexer. Main features are: modular format for studio systems from 8 to 128 tracks • inexpensive, readily available S-VHS tape media • 20-bit oversampling A/D and 24-bit D/A digital converters, 102dB dynamic range • track copy, tape offset and track delay editing functions • 10-point autolocator/10-key numerical input • ADAT optical digital interface • +4dBu servo balanced and -10dBV unbalanced audio connection • and is compatible with all models of ADAT. 3U & 20lbs.

XT20	20-bit Digital Audio Recorder	\$2,599.00
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Alesis ADAT StudioPack

Complete Recording Studio



The Alesis ADAT StudioPack is an all in one recording studio setup that offers everything you need for digital recording, mixing, effects and dynamics processing. It includes the ADAT-LX20, Studio 24 recording console, and all the cables you need to hook up the entire studio system. The StudioPack comes with a free instructional video that takes you through a step by step tutorial. The video tells where to plug in each cable, explains the use of each component, and gives you advice on the best ways to begin using your new recording studio.

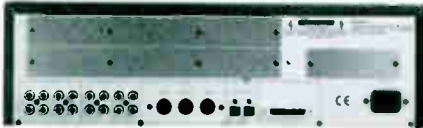
StudioPack	A complete recording studio in a box	\$2,999.00
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Recorders/Players • Digital Multitrack

Fostex D108 Hard Disk 8 Track Recorder



The Fostex D108 eight track digital recorder includes the FDMS3 disk management technology allowing, for example, up to 1,548 track minutes of 44.1kHz full bandwidth recording on an 8.2GB hard drive. A total of 24 tracks are available, of which 8 can be simultaneously recorded or played back at any one time allowing you to keep multiple takes of your tracks. The D108 also offers an additional 99 memory locate points in addition to the 6 memory edit points, 99 virtual reels and a new graphical preview function, all of which are easily displayed on the large FL display. The most innovative function is the ability to export and import the tracks of any project as PC standard '.WAV' files to facilitate editing, processing and sound file conversion using any popular PC based editing software. SCSI-2 is standard, with balanced I/O and comprehensive timecode facilities available on optional plug-in cards. 24lbs.



D108	Hard Disk 8 Track Recorder	\$1,495.00
D108/O	As above w/o HD	\$1,195.00
D108B	w/+4dBu balanced I/O and HD installed	\$1,860.00
D108BO	As above w/o HD	\$1,560.00
D108TC	w/timecode and HD	\$2,445.00
D108TCO	As above w/o HD	\$2,145.00
D108TCB	w/balanced I/O, HD, & timecode installed	\$2,810.00
D108TCBO ...	As above w/o HD	\$2,510.00
D160v2	Hard Disk 16 Track Recorder w/5.2GB HD, 30lbs. ...	\$2,195.00

Fostex FD4-4 Digital Multitracker

The Fostex FD4-4 hard disk multitracker has a dynamic range of 105dB and has a full-function four channel mixer that offers balanced XLR (on channels 1&2) or unbalanced mic inputs. Each channel has a 3-band EQ with wide band parametric mid control. Two aux sends per channel and two stereo returns, plus insert points on channels 3&4 (for adding compressor/limiter, etc., directly into the audio path) create a flexible recording/mixing machine. Features include: auto locate auto return/play • auto punch I/O w/rehearse mode • built-in metronome with two signature types, tempo and MIDI clock output • and random access editing tools w/full undo/redo capabilities. There's the ability to bounce all four tracks to an additional stereo pair of tracks on the same media without losing any tracks or audio quality in the process. With the FD-4 you can make 2-track digital masters without using an external machine. The FD-4 lets you choose virtually any SCSI-2 media or have an optional E-IDE drive factory installed into the FD-4. The FD-8 digital multitracker offers 8-tracks and 16 virtual tracks. Optional media of choice - internal IDE or SCSI-2 to removable HD, M/O, etc. Lightpipe™ interface, 2 recording modes (one for no compression CD quality, the other for high quality extended time), interfaces & functions of FD-4 apply.



FD-4	Digital Multitracker, 10lbs.	\$649.00
FD-8	Digital Multitracker, 14lbs.	\$899.00

Fostex VR800 Digital Multitrack Recorder

The Fostex VR800 digital multitrack recorder has the ability to simultaneously record 8 tracks of digital audio to a variety of storage devices that mount into a 3.5" drive bay. Just connect two ADAT optical cables and start laying down tracks. Features include:



16 additional tracks available for 24 track recording • 3.5" bay for recording media such as E-IDE hard disk, Zip™ or Zip 250MB drive • non-compressed recording at 44.1kHz • copy paste, move paste & erase w/undo/redo including multiple track paste • track exchange of any 8 track to/from additional 16 tracks • audio scrub with graphic envelope display • digital track in for importing data from CD, DAT, etc. • word out & ASYNC function • MTC slave, MIDI clock, SPP out & MMC • 6 edit memory & 99 locate point memory • SCSI port for an external recording or backup device • ±6% vari-pitch • and 99 song programs.

VR800	Digital Multitrack Recorder	\$749.00
VR800/5.1	As above with 5.1GB Internal HD	\$1,099.00
VR800/250X ..	VR800 with external Zip™250 HD	\$999.00
VC-8	ADAT/Analog Converter	\$329.00

Roland VS840EX Digital Studio Workstation



The Roland VS840EX digital studio workstation includes powerful new effects, easier operation, and a new guitar tuner. Features include: self-contained 8-track digital recording workstation with built-in digital mixing, stereo effects processing and 250MB Zip™ drive • onboard effects include new mic simulation, acoustic and bass guitar

simulation, and bass multi-effects, plus studio reverb, delay, chorus, COSM guitar amp simulation and more • dedicated guitar input with new chromatic guitar/bass tuner built-in • enhanced EZ routing function simplifies recording and mixing process with simple "yes/no" questions and new quick recording mode • highly efficient digital recording/editing environment with enhanced song optimize functions and expanded SCSI options • and "EX" features are available to current VS-840 owners via convenient VS-840-UP1 hardware/software upgrade.

VS840EX	Digital Studio Workstation w/250MB Zip™ Drive	\$1,395.00
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1-352-622-7700

Visit Us @ www.bgsfl.com

World Radio History

Recorders/Players • Digital Multitrack

Roland VS880EX Digital Studio Workstation



The Roland VS880EX digital studio workstation offers high-powered digital recording with stunning built-in effects, more inputs and outputs, more simultaneous recording tracks, more virtual tracks, a refined backlit display and a simplified user interface complete with acclaimed EZ routing navigation. Features include: fully digital recording/editing, 16-channel automated mixing, expanded EQ capabilities • built-in dual independent stereo multi-effects processing with 34 algorithms • 64 virtual tracks x 2 banks (only one bank can be used at a time, with virtual tracks freely exchanged between banks) of digital hard disk recording; up to 8 tracks (number of simultaneous recording tracks is dependent upon speed of hard drive and recording mode used) of simultaneous recording and playback • 20-bit A/D-D/A converters • expanded input section with 6 balanced TRS inputs and 2 digital inputs (optical or coax) • expanded output section with 4 analog outputs and 4 digital outputs (optical and coax) • non-destructive audio editing; 999 levels of undo for recording and editing • built-in SCSI port offers storage/interface with a variety of drives, computer peripherals, etc. • MIDI timecode and MIDI machine control for sync • and audio CD recording and data backup with optional CD-R drive.

VS-880EX Digital Studio Workstation w/2GB HD & Effects \$2,195.00
VS-CDRII CD Recorder System for the VS-880 and VS-1680 \$750.00

Roland VS1680 Digital Studio Workstation



The Roland VS1680 offers eight tracks of full linear digital audio recording and editing. The VS-1680's huge backlit 320 x 240 dot full graphic LCD simultaneously displays waveform editing, level meters, EQ

effects settings and more. The backlit LCD provides an intuitive graphic user interface. Features include: 20-bit A/D-D/A converters • internal 2.1GB hard drive provides over 550-track minutes record time • sixteen tracks recording using MT-PRO recording mode • 256 recordable tracks per project, select any 16 for simultaneous playback • inputs- 2 balanced XLR mic inputs w/switchable phantom power; 6 balanced 1/4" TRS; 2 digital SPDIF and optical • outputs- 8 analog outputs; 2 stereo digital SPDIF and optical; stereo headphone output; 4 balanced analog outputs • EZ routing function provides step by step guidance • dedicated LED button • and optional CD-R system allows recording audio CD's directly through SCSI buss, plus hard drive back up and archiving to CD-RW.

VS1680HD 24-Bit Digital Studio Workstation \$3,195.00
VS-CDRII CD Recorder System for the VS-880 and VS-1680 \$750.00

Tascam DA-78HR Modular Digital Multitrack Recorder



The Tascam DA-78HR offers a built in digital mixer and on board SPDIF digital I/O for transfers from DAT or CD could be used

for a quick mixdown, or for bouncing tracks externally. The DA-78HR can work with any other DTRS machine in the DTRS Sync line. Features include: selectable 16-bit or 24-bit High Resolution audio • 24-bit A/D and D/A converters • >104dB dynamic range • 20Hz - 20kHz frequency response ± 5 dB • 1 hr. 48 min. recording time on a single 120 tape • on-board SMPTE synchronizer - chase or generate time code • on-board support for MIDI Machine Control • internal digital mixer with level and pan for internal bouncing, or for quick mixes • track slip from -200 to +7200 samples • expandable up to 128 tracks (16 machines) • Word Sync In/Out/Thru • analog output on DB25 balanced and RCA unbalanced • digital output on TDIF and 2 channels of SPDIF.

DA-78HR Modular Digital Multitrack Recorder \$3,299.00

Tascam DA-88 Modular Digital Multitrack Recorder



The Tascam DA-88 modular digital multitrack recorder delivers the best of Tascam's Hi8 digital audio format. Features include: 1 hr. 48 min. recording time on a single 120 min. tape • expandable up to 128 tracks/16 machines • user-definable track delay & crossfade • shuttle & jog capability • auto punch with rehearsal • SMPTE, MIDI and Sony 9-pin sync capability • and options include: RC-808/828 remote controllers • IF-88AE/IF-885D digital interfaces • MU-Series meter bridge • MMC-88 MIDI machine control interface • and SY-88 sync card.



DA-88 Modular Digital Multitrack Recorder \$5,199.00
RC-808 \$245.00

Tascam DA98 DTRS Modular Digital Multitrack



The Tascam DA98 offers features like: confidence monitoring • individual track tape/source monitoring • an integrated electronic patchbay • dedicated function/numeric

keys • digital track copy and switchable reference level capability • individual input monitor select switch facilitates easier checking of source/tape levels • D-sub connector (37-pin) for parallel interface with external controller • and switchable reference levels for integration into a variety of recording environments with internal tone generator. Sony P2 and MIDI synchronization standard, it has a comprehensive LCD display and the ability to defeat it's dither function. The DA-98 utilizes the DTRS® Hi8 format to deliver up to 116 minutes of digital audio recording on 8 tracks and is compatible with all DTRS format recorders. It has a flat 20Hz to 20kHz frequency response, a dynamic range that exceeds 92dB and uses 20-bit Delta Sigma A/D converters with 64 times oversampling and 20-bit D/A converters with 8 times oversampling.



DA-98 DTRS Modular Digital Multitrack \$6,499.00

Recorders/Players • Digital Multitrack

Tascam MX-2424 Digital Audio Hard Disk Recorder



The Tascam MX-2424 is a revolutionary product - a 24 track, 24 bit digital audio hard disk recorder designed for the expanding professional and semi-pro market. Priced at a

mere \$3999, the dollar-to-track-count ratio of this stand-alone versatile recorder puts the advantages of disk based recording within reach of most audio gurus. Familiar features and performance for the analog recordist, powerful enough for the DAW editor, and pure enough to satisfy the most discriminating audiophile.

MX-2424 Digital Audio Hard Disk Recorder \$3,999.00

Tascam 788 Digital Portastudio



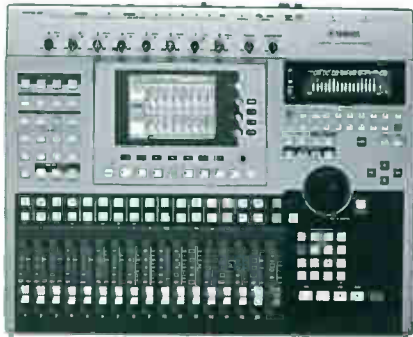
The Tascam 788 Digital Portastudio is an 8-track, 24-bit hard disk recorder workstation that was designed to give you the latest in recording technological innovation. Features include: 250 virtual tracks for comps and alternate takes • built-in high quality digital effects • 24-bit uncompressed sonic fidelity, 24-bit AD/DA

converters • nondestructive editing: 999

levels of audio • 3-band EQ with true parametric mid • and SCSI port for data archives and CD burning. Inputs on the 788 are all 1/4" balanced TRS jacks which can accept both mic and line level signals. Stereo outputs for mixing down, monitor outputs to send audio to your speakers and aux outputs are all included on individual connectors. Also, MIDI I/O jacks are provided for syncing your audio tracks to synthesizer and software-based sequencers or other devices that use MIDI Time Code, MIDI Machine Control and MIDI Clock. A S/PDIF digital output makes it easy to send your audio to CD and DAT recorders for two-track masters.

788 Digital PortaStudio \$1,149.00

Yamaha AW4416



The Yamaha AW4416 elevates the stand-alone studio concept to a level that's destined to become the new standard. Features include: 16-track recording (x 8 virtual tracks) to internal hard disk • 24-bit recording with no compression and 32-bit processing • Up to 64 GB internal hard disk drive (6.4 GB for one song) • Max. 44 channels, 8 groups and 8 AUX send busses mixer • 2 systems of internal multi-effects • Channel/EQ/Dynamics/Delay/Attenuation/Phase/Insert • 8 sample trigger pads with 2 banks (max. approx. 90-seconds) • Scene Memory and Auto-mix functions • Track, Part, Region and Song editing • Standard play/record transport functions plus Jog with Shuttle • 99 Mark points per song plus Quick Locate and Repeat • Manual and Auto Punch I/O • Large 320x240 dot LCD + FL display • On-board mastering to internal stereo tracks • Word Clock I/O, MIDI In, Out/Thru, MTC Out, To Host, SCSI, Mouse and Foot Switch connectors • 2 Mini-YGDAI card slots for multiple digital and analog I/O options • Built-in CD-RW drive (option)

AW4416HD Professional Audio Workstation \$3,599.00

AW4416CDHD AW4416HD with CD Burner \$3,799.00

Yamaha MD8 Multitrack MD Recorder

Yamaha MD8 multitrack MD recorder and mixing system records digitally to a MD data disc with a sampling frequency of 44.1kHz, delivering flat frequency response from 20Hz to 20kHz with inaudible 0.02%

total harmonic distortion (at

1kHz), at a signal to noise

ratio of 96dB. This format-

ting permits 18 minutes of

8-track recording, 37

minutes of 4-track and 74 minutes

of stereo recording and 148 minutes of

mono recording. The MD8 also lets you record

and play in stereo or monaural using a standard Mini

Disc. Some of the MD8 features include: simultaneous 8-

track recording • all-track ping-ponging • flexible signal routing • cue section • two aux

sends with stereo returns • group assign switches • monitoring features • direct outputs •

search and locate • precise punch I/O • pre-roll and post-roll • multiple controls • large

fluorescent display • MIDI control options • channel inputs and inserts • 3-band EQ w/

mid sweep • time entry search • song repeat • cue list and program play • and more.

MD8 Multitrack MD Recorder \$1,399.00

Yamaha DME32



The Yamaha DME32 Digital Mixing Engine is a digital audio tool-box that gives you all the

tools necessary to create virtually any audio system or processor you require. With installed sound systems becoming more complex, the DME32's flexibility, expandability and ease of use make it a perfect solution. Because of its open-architecture, DME32 can be used in a wide variety of applications, including a stand-alone or sidecar mixer, a speaker cluster controller, an effects processor, a digital audio router, or even a surround sound matrix. The DME32 also features a new generation of Yamaha 32-bit DSP technology and new 24-bit/48 kHz I/O options for absolutely unrivaled sound quality.

DME32 Digital Mixing Engine \$3,699.00

AD824 8-Channel A/D Converter \$1,899.00

DA824 8-Channel D/A Converter \$1,399.00

Yamaha MD4S Multitrack MD Recorder

Yamaha MD4S multitrack MD recorder is a 4-

channel full inline mixer, designed for great

sound and flexibility in recording. All four

channels are equipped with 1/4" TRS

phone inputs. Channels 1 and 2 in-

corporate combination XLR/

phone balanced inputs as well as in-

sert I/O jacks. Each channel fea-

tures a 3-band EQ section along with vari-

able gain, pan, fader and two aux sends that can be

returned to the mixer via stereo channels 5/6 and 7/8. Monitor your

work with headphones or external speakers connected to the monitor out jacks. Direct

outputs are also available for each recorder track for additional sound processing exter-

nally. Some other features include: full range frequency response of 20Hz to 20kHz and

a sampling rate of 44.1kHz • unlimited ping-pong w/o degradation • large jog/shuttle •

playback at 1/2 speed or fast forward/rewind at various speeds from 2x to 32x's • compat-

ible with MIDI devices • and has high-end editing functions and non-linear access.

MD4S Multitrack MD Recorder \$899.00

Audemat ITS4 Remote Monitoring



The Audemat ITS4 is a "soft parameter" monitor that can best be described as an electronic listener. The ITS4 listens to stations and monitors many parameters that we normally don't. ITS4 monitors and alarms when out of tolerance conditions happen to the following: RF level (too low, too high), L & R audio, audio phase rotation, stereo, pilot level, RDS, composite level, RF intruder and more.... ITS4 alerts you of alarm conditions using MAC-NET software via phone, pager, fax or even email. There are multiple levels of alarm notification and multiple levels of security for the software. ITS4 can monitor every station in a market or specific stations as required by the operator. For large groups with dozens of transmitter sites to manage ITS4 displays the location of the alarm from any site on a map. This map feature eliminates confusion as to where the problem has occurred and speeds up dispatch of technical personnel to correct the problem. The ITS4 FM also offers automatic setting of monitoring parameters, which can be locally and remotely accessed and modified. This new solution, available for FM, AM and TV, enables network operators to make quicker and better decisions on what to do in the event of alarms, saving time and money.

- ITS4FM FM-RDS-DARC multi-channel, multi-task, multiple receivers \$3,615.00
- Kit Modem Modem Kit For ITS4FM Olitec RTC w/cables \$225.00
- ITS4AM Monitoring system AM, multi-channel, multi-task, multiple receivers (delivered with internal modem) \$7,000.00
- ITS4TV SECAM and PAL (delivered with internal modem) \$7,000.00

- Site Management and Alarm Reception Software**
- MACNET Alarm Reception Software \$7,446.00
Includes MAPINFO and configuration software
- Audemat PC ITS4 ... ITS Configuration Software \$2,125.00

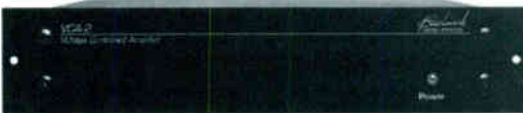
Consider the purchase of 2 silence sensors. Set 1 for 30 seconds to call the studio or PD and 1 to call you after 5 minutes!

Belar AS-1 Audio Sentry

The Belar AS-1 Audio Sentry is an alarm which aurally and visually alerts station personnel of the absence of modulation or carrier. It will react immediately upon loss of carrier. In the case of loss of modulation, the Audio Sentry can be programmed to sound off anywhere between 3 and 60 seconds.

- AS-1 \$295.00

Benchmark VCA-2 Voltage Controlled Amplifier



Benchmark VCA-2 is a remote stereo voltage controlled amplifier that features balanced instrumentation inputs, gain control from -100 to +20dB, and balanced outputs. It is housed in a 1/2 wide, 1U chassis that is rackmountable. The VCA-2 has low THD+N of 0.002% and balanced control inputs which allow long distance control.

- VCA-2 Voltage Controlled Amplifier \$299.00

Broadcast Tools MSO-8 Control Panel



The MSO-8 provides a convenient way to add front panel control to our smaller profile products. The MSO-8 consists of a 1-RU chassis, top cover and a front panel that provides two sets of four LED-indicator equipped switches. The chassis has threaded standoffs configured for two small profile products and an RF Relay. 1-RU.

- MSO-8 Control Panel \$159.00



Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Broadcast Tools DC-8A Dial-Up Remote Control



The Broadcast Tools DC-8A is designed to connect to a standard dial-up telephone line, allowing the user to control eight SPDT relays and monitor eight digital inputs via any standard Touch-Tone® telephone. The relays may be configured for momentary, latching, interlocking or group latch/unlatch operation. The DC-8A incorporates a "Pager Alert" function, which when activated, will dial up to three digital pagers and display a programmed phone number along with the input that caused the alarm. Additional features include: programming via standard Touch-Tone® phone • up to

8 digit passwords • programmable number of rings • 1kHz tone generator • audio I/O switching to telephone line • front panel status LEDs for tone, off-hook, local control, ring and power • single high/low DTMF tones used for status of the eight relays and digital inputs. Three new features include: CPC control, allowing the automatic disconnection of the phone line when the calling party hangs up • Acknowledgment of tone defeat, disabling the feedback tones when used for on-air applications • and stand-alone DTMF Detection, enables the user to connect programming audio to the unit allowing the detection of DTMF tones one through eight. 1U



- DC-8A \$399.00

Remote Controls • Automation

Broadcast Tools DC-10 Dial-Up Remote Control



Equipped with 10 relays (2 are DPDT), 8 digital and/or analog inputs, along with a telephone hybrid, which allows control and monitoring from any touch-tone telephone. Other features include; stereo silence sensor; 6 telephone number pager alert; balanced inputs and output; local and remote programming with touch tone telephone or NON-DEDICATED computer; removable screw terminals; 1-RU.

DC-10 Dial-Up Remote Control (Spring 2001) Under \$459.00

Broadcast Tools SRC-1616L Serial Remote Control



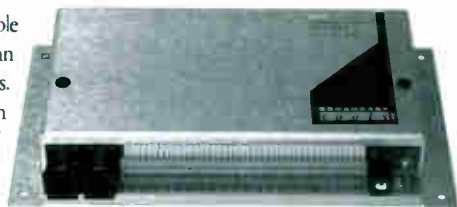
The SRC-1616L is equipped with 16 opto-isolated and CMOS/TTL compatible inputs and 16-Relay (Form C) outputs. The unit may be controlled from a host computer, or a pair of units can be used in a stand-alone configuration (relay extension cord). The unit communicates using RS232, RS485(2-wire) or RS422(4-wire), at data rates up to 115.2K bits/second. 32 or more SRC-1616L's could be controlled from a PC, only 2 boards can work in stand-alone mode. Other features include: LED indicators for all inputs, relays, power and serial data flow; Dip switch selection of the communication address (8-bits), and operating mode (8-bits). Jumpers are available for Baud rate selection and other functions (7-bits). Removable screw terminals.

SRC-1616L Serial Remote Control \$659.00

Broadcast Tools PSC

Programmable Schedule Controller

The Broadcast Tools Programmable Schedule Controller, (PSC), can store and control up to 160 events. Events may be programmed with Hour/Minutes/Seconds and Day/Month/Year or Day of Week. Each event may control any one



of twenty spst relays provided with the PSC and/or 32 serial custom commands. The PSC may be used to select multiple tone decoders, control of satellite channel/transponder controllers, audio/video switchers/routers, power and/or directional pattern changes at transmitter sites, audio processing day part control, or any device needing a contact closure or serial string to perform a function. Programming is accomplished with any non-dedicated computer and off-the-shelf communication software, such as Procomm, Bitcom, Windows Terminal, Windows 95/98/NT Hyper-Terminal, etc. Features include: Field-programmable with a non-dedicated PC • Twenty spst relays, with up to six character labels. These may be configured for either momentary or latched contact closure. • Thirty-two, nine (9) character Serial custom commands. May be linked for longer strings. • Microprocessor based control system. • EEPROM, with 10 year retention event and configuration memory. • Stable 60Hz power line time base. Stability is at five seconds per month or less. • Optically isolated Sync input with LED indicator, allowing clock updates any time within any hour from an external source, such as NIST, Program Networks or master clock systems. • ONE FARAD! Super-cap keeps time/date processor operating with crystal time base during power outages. • Auto leap year correction. • 24 hour time format. • Daylight Saving Time programming. Y2K compliant • Password option, allowing secure remote access with optional external modem. • WAGO clamp style wire captive terminals for easy connection to your external circuits.

PSC Programmable Schedule Controller \$399.00

Broadcast Tools BOS, ROS & PBB-24

Switch & Button Panels



The BOS (Box-O-Switches) offers 12 N.O. dry contact switches with status LEDs in a sloped-front desktop panel. The ROS is similar, but in a single-space rack unit. The PBB-24 provides 24 momentary buttons that can be programmed with a non-dedicated computer to output ASCII character strings on depression and release.

BOS or ROS ... Switch Button Box or Rackmount \$199.00
PBB-24 \$299.00

Broadcast Tools SRC-8A Remote Relay Control

The Broadcast Tools SRC-8A adds remote relay control to your Moseley DSP-6000 and Interplex (or equivalent) digital STL, POTS or ISDN remote equipment. Applications include direct relay control for your dial-up remote control, a supplement to your dedicated remote control, relay control or satellite, transponder or remote audio switching as well as machine control and talent alerting for remotes. The standard system provides one-way control. The SRC-8B is available for bi-directional control and status. All SRC's utilize a high integrity data format for maximum reliability. The SRC-8A consists of both transmit and receive units. Power adapters and serial cables are provided. The SRC-8 may be ordered with opto-isolated or TTL/CMOS inputs



SRC-8A Half Duplex \$399.00/pr.
SRC-8B Full Duplex \$499.00/pr.

Broadcast Tools SSM Smart Silence Monitor

The NEW Broadcast Tools Smart Silence Monitor utilizing the innovative "WNSD" circuitry is designed to monitor any stereo or two independent monaural sources and generate alarms when white noise or silence is detected. The



white noise detection circuit enables detection of a loss of carrier, which other monitors are unable to provide. The following are just a few of the many features of the Smart Silence Monitor: active balanced inputs with multi-turn trimmers • alarm sensitivity down to 35db below program • precise time delay from 2 seconds to 931/2 minutes • may be configured for stereo or dual independent monaural operation • alarm and activity LED indicators for each channel with multiple-alarm-recycling • two DPDT relays, which may be used as a 2x1 program switcher • four open collector function outputs • remote opto-isolated defeat and reset input with local reset switch • screw style wire captive terminals • aluminum case with four mounting holes allowing convenient mounting • optional RM-2 or RM-3 rack mount for mounting two units in a 19-inch rack.

Silence Monitor \$209.00

1-352-622-7700

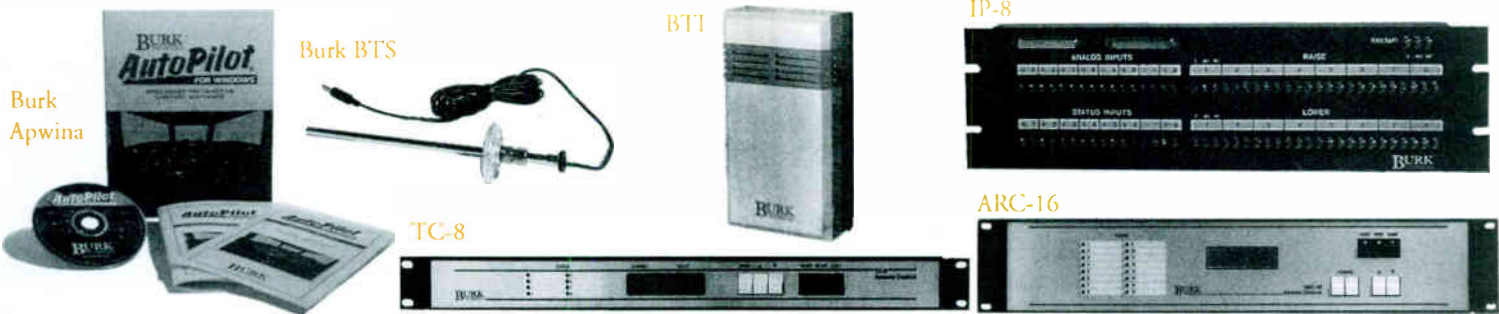
Remote Controls • Automation

Burk Technology Studio Remote Control System

The Burk Technology ARC-16 is a full time studio control, dial up control or both. The ARC-16 includes 16 analog metering channels, 16 status channels and 16 raise and 16 lower control outputs. The ARC-16 units have 32 character displays with labels and units you have selected for easy calibration and local operation. You decide whether to add studio control, telephone access or both. Communications between site can use dedicated lines, dial up, STL subcarriers,

FM SCA or 450 MHz TRL. Subcarrier generators are built in at no extra cost. The ARC-16 system is capable of controlling two transmitter sites from one studio or one transmitter site from two studios. The telemetry links between the sites can be mixed. Full access to all sites is available at any site by pushing a button. Alarm reporting is handled immediately and is displayed at all sites no matter which site is monitored.

Please call Broadcasters General Store for system configuration.



- ARC-16 2 unit remote control system, one studio unit, one transmitter unit, one set of modems * \$3,895.00
- ARC-16S Includes control terminal with display and modem to connect to an existing transmitter or studio unit.* May require additional modem and two port adapter, for existing unit. ... \$1,795.00
- ARC-16CI Stand alone system w/computer interface \$2,695.00
- ARC-16T Includes 16 channels of analog inputs, 16 channels of status, 32 control outputs (16 raise, 16 lower). Includes a modem to connect to an existing transmitter or studio unit.* May require additional modem and two port adapter, for existing unit. ... \$2,295.00
- ARC-16T32 Expansion unit for 32 channels, (may need 2 port adapter) . \$2,195.00
- ARC-16SA Transmitter unit with front panel display plus the ESI \$2,995.00
- AP DOS Automatic transmitter control software \$595.00
- AP WIN AutoPilot®, Multi-System Transmitter Control Software .. \$1,495.00
- ESI Enhanced Speech/Computer Interface hardware for ARC-16's \$895.00

- AMI-2 Antenna monitor interface up to 8 towers \$395.00
- CI Computer interface hardware for the ARC-16 \$195.00
- CDL Control display logging software for CI or ESI \$295.00
- RMSx/y Radio modem for studio unit ** \$200.00
- RMTx/y Radio modem for transmitter unit ** \$200.00
- Module Input or output module for Radio Modem \$35.00
- SSI Studio Status Indicator for external user supplied indicators for first transmitter site \$250.00
- SIO Studio input/output option provides 8 raise and 8 lower control outputs, 8 analog metering channels, 8 status inputs for controlling and monitoring equipment at the studio site. Two SIO's may be installed for a total of 16 Ch. \$495.00
- IP-8 Interface panel 8 metering inputs, 8 status inputs and 8 each raise and lower outputs, plus fail safe use at Xmtr All outputs are isolated with 10AMP relays (form C) contacts \$495.00
- BTI Indoor Sensor for BTU-4, for monitoring ambient temp. in a room \$79.00
- BTO Outdoor Sensor for general purpose monitoring w/15' cable \$49.00
- BTS Stack Probe for BTU-4 for temp. sensing air ducts, w/15' cable \$69.00
- BTU-4 Burk Temperature Unit w/1-BTO, supports 4 independent probes \$199.00
- TPA Two port adapter \$100.00
- LVS Line Voltage Sensor \$175.00
- TLM Tower light Monitor \$109.00
- TE-2 Transient Eliminator \$129.00
- TE-RJ Dial line Transient Eliminator \$159.00
- UPS 450 Backup Power Source \$297.00
- WMS Wire modem for studio unit \$200.00
- WMT Wire modem for transmitter unit \$200.00
- SCA-2 Subcarrier Receiver \$198.00

BDT-115 The Burk BDT-115 RF Data Link provides error-free communications between ARC-16 Remote Control units. It eliminates telco charges and SCA requirements and up to 100 units may be operated at the same site. Burk provides a range of antennas for the BDT-115, permitting line of sight operation at up to 20 miles.

BDT-115 Wireless Data Transceivers use spread spectrum technology to transmit data using the unlicensed band of 902-928Mhz. For about the cost of a TRL system the Burk RF Data Link provides a bi-directional alternative.

BTU-4

RF Data System 2-BDT-115, 2-TPA kits, 2-BDT/BNC cable sets, ARC4.6 D firmware for BDT \$2,795.00

BDT-115 Single Wireless Data Transceiver \$1,397.50

** Please specify type of modem, telco, STL, SCA, or TRL and include desired subcarrier frequencies for STL or SCA links. SCA links require SCA receiver to recover telemetry. **For Radio Modems please specify STL subcarriers, SCA and TRL links x and y are the output and input subcarrier frequencies respectively. Audio inputs or outputs are specified by substituting zero for x or y.*

ChronTrol Time-Programmed Control



ChronTrol Micro-processor based Timers give you time-programmed control of up to 16 independent circuits used to operate devices such as tape or chart recorder, program switching, lights, sound distribution equipment, fans solenoids, pumps, motors, or other equipment.

With twenty independent on/off programs (or up to 40 programs optional) you can exercise control right to the second. Features include: 2, 4, 8, 12, or 16 independent SPDT outputs • up to 16 inputs for external activation • cycle times from 2 seconds to one year • separate on and off time settings and cycle times on each program • 6 digit display shows hours, minutes, and seconds • directly replaces multiple mechanical times • tamper-resistant locking keyboard • weekly cycle with day omission • completely field-programmable • battery backup keeps time even during power outages • 12 or 24-hour time readout • and countdown timer.

XT-R2	Rackmount 2 Circuit	\$440.00
XT-R4	Rackmount 4 Circuit	\$490.00
XT-R8	Rackmount 8 Circuit, 40 Program	\$990.00
XT-R12	Rackmount 12 Circuit, 40 Program	\$1,190.00
XT-R16	Rackmount 16 Circuit, 40 Program	\$1,390.00

ChronTrol Table-Top Models



ChronTrol Table-Top Models include: 20 programs • crystal time-base backup • 9V alkaline battery backup • and independent 15-Amp SPST relay with each circuit.

XT-2	2 Outlet	\$320.00
XT-2S	2 Circuit Dry Contact	\$335.00
XT-4	4 Outlet	\$350.00
XT-4S	4 Circuit Dry Contact	\$365.00

CircuitWerkes DEN-8 DTMF Encoder



The CircuitWerkes DEN-8 DTMF encoder is able to generate all 16 DTMF tones and will store and replay up to eight different sequences of DTMF tones at the push of a button. Full remote control makes the DEN-8 great for mounting out of the way in a rack, while an integral keypad will make it useful for remote work. Features include: pass-through audio with active, balanced, I/Os.

DEN-8	\$299.00
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CircuitWerkes DR-10 Dial-Up Controller

CircuitWerkes DR-10 Dial-Up Controller is a microprocessor based remote control that lets you control your station's equipment from anywhere there's a phone.



Auto answers on user set ring number and auto-disconnects at calls-end. Its 10 dry relays (2 are DPDT for switching balanced audio, etc.) can be programmed to decode any of the 16 DTMF tones and can be individually programmed for momentary, latching or interlocked operation. Any relay can be assigned to any tone(s). It has four logic level inputs that can cause the DR-10 to automatically activate any relay and/or call your pager. Other features include: up to 8 digit user set password prevents pirating • each relay is programmable to close at beginning or end of tone and can beep when activated (End of tone closures are after the beep!) • two-tone and detection delay modes eliminate falsing for remotes, etc. • a simple, built-in audio hybrid, with active, balanced input and outputs, lets you control your equipment while monitoring local audio sources • retains its settings and prior state after a power failure • and a silencer option removes DTMF tones from output. All outputs appear on easy to use screw terminals and programming is easily done from any DTMF telephone.

DR-10	Dial-Up Controller	\$399.00
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CircuitWerkes DS-8 DTMF Sequence Decoder



The CircuitWerkes DS-8 is a DTMF Sequence Decoder providing dry closures for eight different tone sequences.

It can decode one to eight separate DTMF sequences used by networks for automating closed circuit feeds and local insertions. Each relay can be set for one to four digit code(s). Relays are easily (and independently) programmable, via DTMF phone, to operate in momentary, latching, or interlocked latching modes. Any mixture of modes and code lengths can be used and it remembers all the settings in a power failure. All connections are screw terminal. Use the DS-8 for remote audio switching, automated program recording, secured remote EAS control, you name it! Optional rack mount (pictured) is available. A two unit rack mount is also available.

DS-8	DTMF Sequence Decoder	\$299.00
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CircuitWerkes DTMF-16 DTMF Remote Control

The CircuitWerkes DTMF-16 touch-tone decoder provides up to 16 separate optocoupled outputs using standard touch-tone signals. Jumper settable modes include: momentary, interlocked-latching, two-tone and anti-falsing. When combined with an autocoupler it is useful for a variety of tasks such as: remote control of TV camera pan and tilt heads, emergency transmitter control, controlling remote satellite receivers, network switching equipment, repeaters or any telephone control application.



An optional combination lock is available which allows for additional system security. The Silencer option board removes tones that are sent over the program channel and provides a muted, balanced audio output.

DTMF-16	Stand alone DTMF Remote Control	\$219.00
*-Silencer	DTMF Silence Option - ADD	\$159.00

1-352-622-7700



SS 2.1/BNC

Composite - AES/EBU Switcher/Router

Passive switching/routing with 2 composite audio, video or AES-EBU inputs to 2 composite audio, video or AES-EBU outputs, or vice-versa.



SS 2.1/TERM

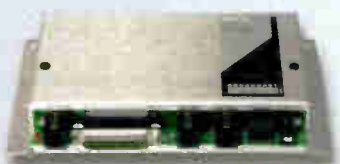
Stereo Audio Switcher/Router

Passive switching/routing with 2 stereo inputs to one stereo output or vice-versa.



SS 3.1 Stereo Audio Switcher/Router

Passive switching/routing with 3 stereo inputs and one stereo output or vice-versa.



DSC-20 Dual Satellite Controller

Adds remote control capability to the Scientific Atlanta Encore, DSR-3610, AD-4595, Virtex Star Guide II, Com Stream and Wegener receivers, allowing memory/service - audio changing by automation systems or contact closures.



USC-16

Universal Satellite Channel Controller

Offers remote control capabilities with multiple channel/memory selection for the Scientific Atlanta 7300/DAT-32 series, ENCORE, DSR-3610 and AD-4595; Comtech/Fairchild DART-384, and Ariel type receivers.



PBB-24 Programmable Button Box

Provides 24 SPST buttons to remotely control external equipment and/or be configured to generate user-programmable ASCII strings.



IPC-1/IPC-2 Level Converters

IPC-1 is a bi-directional IHF to professional level converter. IPC-2 is a twin IHF to professional level converter.



3X2 Dual Stereo Audio Switcher

Active crosspoint switcher with 3 stereo inputs and 2 stereo outputs.



6X1 Stereo Audio Switcher/Router

Passive switching/routing with 6 stereo inputs and one stereo output, or vice-versa.



8X1 DAS Digital Audio Switcher

Routes any one of eight AES/EBU digital inputs to split outputs.



8X2D Dual Stereo Audio Switcher

Active crosspoint switcher with 8 stereo inputs, 2 stereo plus 2 mono outputs.



10X1 Stereo Audio Switcher/Router

Passive switching/routing with 10 stereo inputs and one stereo output or vice-versa.



SS 12.4 Stereo Crosspoint Audio Switcher

Active crosspoint switching with 12 stereo inputs and 4 stereo outputs.



SS 8.2 Stereo Crosspoint Audio Switcher

Crosspoint switching/routing with 8 stereo inputs, 2 stereo plus 2 mono outputs.



MC-16 Megacoupler

Allows telephone interfacing with programmable DTMF to ASCII conversion, along with 16 relay operation.

No Tradeoffs

No Risks

Only Top Performance...

...at a cost savings means real value in any broadcast market.

But don't take our word for it or let our 25-plus years in the business cloud the issue. Try these or any of our first-quality products at your station at no risk with our no-fault, 30-day return policy,



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Famous the world over for surprisingly competitive and clean audio at a budget price. Digital synthesis design gives great specs and terrific sound.

FM MOD-MONITOR WITH PRESCALER

Off-air modulation measurement with easy-to-read display, 8 station presets, alarms and multipath indicator. A companion tunable subcarrier monitor/demod is also available.

PRECISION FM REBROADCAST RECEIVER

A feature-packed receiver for translators and other demanding off-air program pick-ups. Synthesized tuning, MPX/demod outputs, alarms and more!

RDS/RBDS "MINI-ENCODER"

Quickly program it with any PC to transmit station call letters, format and other identifiers, translator frequencies, promos/slogans, phone number, etc.

"PBX" TELEPHONE LINE "ELIMINATOR"

Save telco line charges! Up to 7 remote controls, modems, alarms and other dial-up gear can share a single phone line for incoming and outgoing calls.

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World Radio History



Remote Controls • Automation

CircuitWerkes SEN-6 Sub-audible Tone Encoder

The CircuitWerkes SEN-6, a single channel, sub-audible, tone encoder capable of generating 25Hz, 35Hz, 25/35Hz combos, 50Hz, 75Hz & combo 50/75Hz. The SEN-6 will feature tunable notch filtering for 25 and 35Hz and an active, balanced, audio input and output. Custom frequencies are available upon request and can be field changed by replacing one chip and retuning the notch filters. A second "test mode" output port is provided so that the user can set tone levels without removing the SEN-6 from the audio chain. Remote control is provided from both screw terminals or a D-9 connector.



SEN-6 25/35/50/75Hz subaudible tone encoder w/balanced out \$399.00

CircuitWerkes Silencer II

The CircuitWerkes Silencer II is designed to mute DTMF tones on any audio line. The Silencer lets you send DTMF down active audio lines without hearing those annoying tones on the other end. The Silencer is great for broadcasters doing unattended remotes via phone line or RPU, satellite networks and more.

Silencer II \$189.00

CircuitWerkes SUB-03 Subaudible Tone Decoder

The CircuitWerkes SUB-03a Subaudible Tone Decoder decodes industry standard 25Hz, 35Hz and combined 25/35Hz tones and provides dry relay contacts to the user. It features audio presence and audio clipping LED indicators to help make setup a snap. Input gain adjustment and a variable, balanced output allow for level matching. Integral filtering substantially reduces the presence of subaudible tones at the SUB-03a's audio output. Single channel (mono) operation.



Front and Back

SUB-03b \$349.00

Conex 25Hz Sub-Audible Tone Generator



The Conex dual channel sub-audible 25Hz tone generator has front panel LEDs to indicate the duration of the tone and silence intervals. The CG-25A has plug-in type terminal strips with 600 Ω balanced bridging inputs and can be remotely controlled.

CG-25A Tone Generator \$451.50
 Special frequency requests add \$25.00
 RMK, Rack mount kit \$27.00

1-352-622-7700

Conex DT-11 Tone Generator



The Conex DT-11 Tone Generator features: 16 button keypad • balanced audio output, adjustable to +10dbu • can be remote controlled via RS-232 or external contact closure to ground • connects via DB-25 • dimensions 4"W x 5"L x 1"H.

DT-11 \$349.00

Conex DT-40 Tone Remote Control System

The Conex DT-40 DTMF Tone Remote Control System accepts DTMF tones



from an audio line, receiver, or other source. After giving your user access code, it allows remote control of sixteen SPDT relays. The relays can be momentary, latching, or interlocking. A switch settable device selection code allows up to 15 DT-40's to be individually controlled from one audio source. It has miniature screw-clamp terminal strips for easy connection.

DT-40 \$339.00

Conex DT-55 Telephone Remote Control

The Conex DT-55 answers a phone line, accepts a user determined access code, then allows



remote control of ten SPDT relays and the remote monitoring of ten external switch contacts or logic levels. The relays are magnetic latching. On power loss and restoration you can choose to retain their prior states or return to the de-activated state. Each relay can be set, cleared or activated momentarily, for the duration of the push-button actuation on the calling telephone. Additionally, the DT-55 can be set up to act in an interlocking mode; when a button is pressed, its associated relay is set and all other relays are cleared. Easily distinguishable tones indicate the high-low or open-closed status of the ten external inputs. Status lights indicate the ringing signal, power, DTMF tone detection, line connection and access. It uses miniature screw-clamp terminal strips for easy connection.

DT-55 \$339.00

Conex CS-25B Tone Sensor



The Conex CS-25B is a compact and modular 25 HZ tone sensor for use in broadcast automation, tape control, or remote signaling systems. The sensor detects 25 Hz sub-audible tones that typically signal the end of a program selection. The resulting relay contact closures can be used to start the next source and stop the current source. A stereo high-pass filter module is offered as an option to provide absolute protection from program tripped cues.

CS-25B-10 Dual 25Hz Sensor \$439.64
 CS-25B-11 Above with Stereo high pass filter \$530.98
 HPF-25 Stereo high pass filter board \$91.34
 CS-25B-01 Stereo high pass filter \$319.21
 CS-25B-20 Quad 25 Hz sensor \$651.41
 CS-25B-21 Quad 25 Hz sensor, w/stereo high pass filter \$742.75
 35HzOption ... Change to 35Hz per module charge \$25.00

Remote Controls • Automation

MixMax Audio Mixer



The MixMax is the perfect audio mixer for any hard drive system, unattended studio operation, or use as a programmable audio router! Six stereo inputs, one stereo out, with all parameters, including channel on/off and gain control, crossfade, fade duration, and TTL output closure status, controlled by an on-board CPU. Connect the RS-232 port to a local host computer (WIN 95/98 compatible operating software included) to operate live by "point and click", or over the Internet with an ISP connection, or from a remote PC using standard PC comm software (comm software not included). Pre-program up to eight operating setups for instant recall from the local computer, or from an optional operator pushbutton panel or from external equipment closures. The eight TTL output closures can be used to latch on, latch off, or pulse, external equipment. On board silent sense with relay output. Front panel level indicators and recessed L/R gain trim pots, plus switchable headphone monitoring. Accepts balanced or unbalanced inputs.

- Six Channel Audio Mixer CPU control w/ RS-232 port. In-line power supply and software included \$1250.00
- Aux Relay Panel Accepts the eight TTL output closures and provides SPDT dry contact Relay outputs where higher voltage and current capability are needed ... \$295.00
- Operator Interface Panel .. Countertop control panel with eight momentary pushbuttons for initiation of eight presets. Includes 50' cable and DB-15 connector \$250.00

Gentner VRC2500 Remote Site Control



The Gentner VRC2500 Remote Site Control not only monitors

your transmitter, it can make changes for you automatically or at scheduled intervals. If something goes wrong, it calls you to report the problem. The problem can often be fixed by the VRC2500 itself, or by giving a few simple commands via your telephone keypad or PC. It's like having a person on duty at the transmitter 24 hours a day. Features include: 16 channels each of metering, status and command • dial-up voice reporting and DTMF control • 32-bit Application Software for Windows® 95/98/NT • uses existing VRC2000 accessories • monitors conditions, makes power changes, and automatically logs the data • and all setup information is saved in battery backed up RAM which retains data even if the unit loses power.

- VRC2500 Remote Site Control \$3,750.00



1-352-622-7700

Gentner GSC3000 Site Control System

The Gentner GSC3000 Site Control System takes the concepts introduced by



the VRC2000 Remote Control Unit to the next level. The GSC's I/O unit provides 16 analog metering inputs, 16 binary status inputs and 32 command outputs configured as 16 raise/lower command channels. Additional 'smarts', such as macro and time-based event capabilities, were added to the GSC. The GSC3000 System offers these unique features and benefits: operation of 1 to 256 sites • 8 to 256 channels of metering, status and command, per site • single or multiple PC monitoring sites • friendly Windows® and Windows95® based operation • and PC based voice/DTMF option allows control and command of multiple site locations from a single dialed number. The GSC3000 site control system is configured from: I/O Unit that performs all data collection, time and macro driven command functions • System Server Software that provides for the set up of all I/O units and allows basic operation of the complete system • Logging Management Software that amplifies the logging capability and logging post processing functions of the system • Developer's Software Package that permits the user to customize the displays and develop personalized command functions using Visual Basic • and the Voice Server.

- GSC I/O8 8 Channels each of metering status & command, w/System Server Software, VCR-WIN \$2,795.00
- GSC I/O16 16 Channels each of metering status & command, w/System Server Software, VCR-WIN \$3,295.00
- VI VoiceInterface Network Module \$995.00
- CRU Command Relay Unit (Phoenix type connectors) \$495.00
- SBS Wiring Interface \$195.00
- DI Data Interface \$1,295.00
- SS Silence Sensor \$569.00
- ACS AC Current Sensor \$229.00
- TSU/F or C Temperature Sensor Unit w/one Fahrenheit or Celsius Probe \$319.00
- Probe Temperature Probe, Fahrenheit or Celsius \$99.00
- TSP Telephone Surge Protector \$109.00

Please call for special package prices!

Gentner LYNX GSC3000 Software



Gentner Lynx all-new Windows®-based software is designed from the ground up to improve communications, functionality, and flexibility of the GSC3000. The Lynx Explorer allows you to configure, program, and access any point on your GSC networks, with visual cues to their condition and operational status. The

Lynx Scheduler lets you pre-schedule such tasks as capturing data stored on GSC units, printing reports from the database, synchronizing clocks at GSC sites, and configuring user-defined jobs. The Lynx Browser allows you to view historical information on any GSC unit connected to your hardware and print a variety of report formats. The Lynx Designer/Viewer lets you define the visual layout from all of the Metering Status, and Command capability of any connected GSC3000. Totally new G-bus firmware code allows rapid, reliable communication, improved security and TCP/IP (for WAN/LAN) compatible.

- Lynx Windows 95/98/NT GSC3000 Software \$299.00

Gentner Silence Sensor

The Gentner Silence Sensor monitors your audio source, observing both rising and falling edges of audio. In addition it observes audio on a wideband and narrowband basis, permitting the unit to ignore hum and other erroneous signals. If it notes a loss of audio an open collector output is activated and the time-out sequence begins. If audio returns before time-out, the unit reverts to a "ready" state. However, if audio

does not return after a programmed delay time, a second open collector output is activated along with a relay closure to turn on lights, sound alarms or start other sources. A set of dip switches located behind a front panel insert allow you to set time-out for 1 to 165 seconds or 1 to 165 minutes.

Silence Sensor \$569.00

Monroe

Program Timers, Switchers, Remote Controls, Encoders, Decoders, Distribution Amps, & Enclosures

Monroe Cue Tone Receivers manufactured by Monroe Electronics provide decoding of DTMF Cue Tone Signals transmitted over satellite transponders or telephone lines. Use of the Cue Tone Receiver permits automatic, unattended operation of channel switching functions at

626 the headend when programming begins, ends, or changes. Models are available in wall or rackmount enclosures and may include optional features such as telephone access and audio/video switching.



Monroe DTMF Cue Tone Encoders are used by satellite and microwave program services to provide automated headend switching functions. These signals can be used at the headend or studio to control modulators, processors, audio/video switches, agile receivers, scramblers, video tape machines, or other unattended switchable devices. Models are available in wall or rackmount enclosures.

630

Audio/Video Relay Panels provide audio-follow-video switches that can be controlled by program timers, remote controls, or cue tone receivers. Each switch will respond to a contact closure, a transistor switch to ground, or a compatible logic level. The control inputs are buffered to eliminate high output current drive requirements of the controlling device.

631 The Monroe Program Timer is a rackmount programmable time of day and day of week switcher designed to be used alone or with Monroe Cue Tone Receivers to provide unattended time and Cue Tone switching functions. It can be used with Audio/Video Relay Panels to provide independent, time controlled audio-follow-video switches.



The Video Recorder Control is a rackmounted commercial insertion controller designed to provide automatic, unattended switching to local video taped commercials in response to CATV program source cues. It serves as the controller for a run-of-schedule commercial insertion system, providing the cue tone detection, VCR control and audio/video switching requirements of the system.



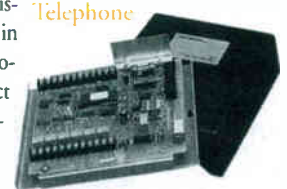
The Remote Receiver Channel Selector provides for the remote selection of satellite transponders and includes an integral FCC registered telephone line interface which allows direct connection to a standard dial-up telephone line for remote channel selection by means of DTMF commands. They also include a local audio input to provide control via a leased line, audio pair, or microwave system.



Monroe Remote Control Systems are available for control and monitoring over dial-up telephone, microwave, two-way radio, or other audio paths by means of DTMF commands. These systems give the calling party control

of remote relays and the ability to interrogate status input points for remote control and status monitoring of unattended sites. They can also provide automatic dialing of stored phone numbers to report change of status of inputs, and can make use of an internal timer to execute control commands.

Telephone Couplers will answer the incoming ring signal and complete a bidirectional audio path to and from an ordinary dial-up telephone line. All Monroe Telephone Couplers are FCC registered and are available in wall or rackmount enclosures ready to connect into a standard telephone line.



The Emergency Alert System permits civil emergency authorities a choice of local, dial-up telephone, or dedicated telephone access to a cable/broadcast system audio channel. Use of a security access code is required when using either dial-up or dedicated telephone.

The Remote Radio Control Units allow a caller to monitor the traffic on a receiver, and upon depression of the Push-To-Talk switch on the handset, to key the transmitter and place the caller's voice on the air. Monroe audio frequency Push-To-Talk feature allows remote control of radio equipment where hardwire facilities are not available.

Listed below is just a sampling of what is available from Monroe. We'd be happy to supply a complete packet and pricing.

624A	Video Sensor	\$295.00
625A	RF Sensor	\$325.00
626	Video Distribution Amp	\$220.00
627A	Stereo A/V Switch	\$175.00
628	Encoder Sensor	\$325.00
629	1x4 Stereo A/V amp	\$525.00
630	4x1 RF Matrix Switch	\$459.00
631A	Program Timer Jr	\$485.00
900/22F	3 Card wall enclosure	\$95.00
900/22G	6 Card wall enclosure	\$185.00
935A	DTMF Sender; 2-Codes	\$835.00
948A	Cue Tone Receiver w/A/V switch	\$915.00
3137B	Phone Answer card	\$165.00
3171B	BCD to DTMF encoder card	\$225.00
3446-3	Single A/V Switch	\$110.00
6002-6	6 Channel Telephone Remote	\$595.00

Remote Controls • Automation

Moseley MRC 1620 Remote Control System



The Moseley MRC 1620 is an intelligent integrated remote control system that has 16 raise and 16 lower command relays, 16 TTL status inputs and 16 analog metering inputs. The system will automatically log, and

can be controlled and interrogated from an optional control terminal or IBM PC with Taskmaster 20 software. All status channels are simultaneously displayed on the front panel. The MRC 1620 constantly checks telemetry and status data for each channel against assigned limits and triggers audible and visual alarms for out of tolerance conditions.

MRC 1620, Control terminal, 1 modem, 1 RS232 port	\$1,550.00
MRC 1620, Remote terminal, 1 line modem, 1 dial up modem	\$3,450.00
Taskmaster 20 software for IBM PC or compatible	\$1,150.00
Subcarrier Generator module (w/system N/C) Separately	\$195.00
Subcarrier demod (w/system N/C) Separately	\$195.00

Moseley MRC-2 Remote Control System

The Moseley MRC-2 will control multiple sites from multiple control points. The basic system is one Control Terminal, one stand alone Remote Terminal or one Remote Terminal with Data Acquisition/Command unit. Multiple remote terminals may be added to the system, with each remote terminal designated as a site. A stand alone remote terminals maximum configuration could be 64 command lines, 48 status channels and 48 telemetry channels. The MRC-2 can control your AM, FM or TV site individually or all three at once. Many control, data acquisition and expansion options are available.



Please call Broadcasters General Store for further information.

MRC 2CT Control Terminal only	\$4,980.00
MRC 2RT Remote Terminal only (16 Command/16 Status/ 16 Analog telemetry channels)	\$7,980.00

Radio Design Labs ST-ACR1M



Audio Control Relay

Radio Design Labs ST-ACR1M is designed to switch on low-level sources, such as microphones or mic-level sources. The ST-ACR2 is designed to switch on line-level sources with extended release delay.

The ST-ACR2 is widely used as a Silence Sense Relay.

	Sensitivity	Release Time	
ST-ACR1	-30dBv to 0dBv	0.5 sec. to 5.0 sec.	\$96.00
ST-ACR1M	-60dBv to 10dBv	0.5 sec. to 5.0 sec.	\$98.00
ST-ACR2	-30dBv to 0dBv	5.0 sec. to 50 sec.	\$96.00
PS-24A	Power Supply, one will power six ACR's		\$19.00

Sine Systems TTT-1 Time-Temp Thing



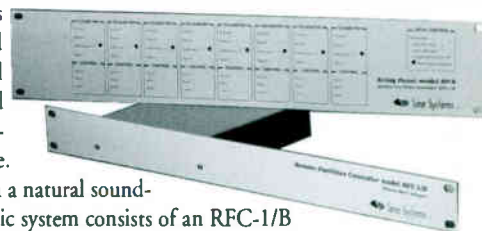
The Sine Systems TT-1 Time-Temp Thing gives automated stations the ability to announce

the local time and/or temperature in a professional sounding voice (male) upon a command from the automation system. The TT-1 changes the way it says the time and temperature so that it does not say the exact same thing every time. A contact closure is all that is required to trigger the TT-1 announcement and it will provide a contact closure back to the automation system when it is done speaking. The clock is battery backed. Both the time and temperature can be calibrated for accuracy.

TT-1 Time-Temp Thing	\$615.00
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Sine System RFC-1B

The Sine System RFC-1B is an affordable, full-featured transmitter remote control system that can be accessed through a standard telephone or cellular phone.



Readings are reported with a natural sounding human voice. The basic system consists of an RFC-1/B and an RP-8 Relay Panel that provides eight channels of telemetry and raise/lower control. Up to eight relay panels can be connected for a maximum of 64 channels. The RFC-1/B can be programmed to perform power/pattern changes and take readings automatically. It can also be programmed to alert station personnel during an alarm condition. for surge protection on the telephone line and telemetry signals use the SP-8 Surge Protector.

RFC-1/B	Remote Facilities Controller	\$1,250.00
MA-1	Modem Adapter (internal modem)	\$295.00
PA-1	Parallel Printer Adapter (printer port)	\$295.00
RAK-1	Intelligent Rack Adapter (1 RP-8 Req'd) see below	\$700.00
RP-8	Relay Panel (eight channels)	\$425.00
SP-8	Surge Protector (protects telephone and telemetry)	\$135.00

Sine Systems RAK-1 Intelligent Rack Adapter

The Sine Systems RAK-1 Intelligent Rack Adapter is designed for use with the



RFC-1/B Remote Facilities Controller. It adds a modem, parallel printer port, battery backed power supply, and telephone line surge suppression and front panel indicators in a sleek rack-mountable aluminum chassis. Most of these options are available for the RFC-1/B separately, however, the RAK-1 is easily the most economical way to upgrade the RFC-1/B with all of these options. furthermore, the RAK-1 is a field upgrade for RFC-1/B systems that are already installed. RFC-1/B software (firmware) version 4.00 or higher is required for upgrade. The RAK-1 is also available for new installations with the RFC-1/B already installed and requires at least one RP-8 Relay Panel for operation.

RAK-1	Intelligent Rack Adapter	\$700.00
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Sine Systems AFS-2 Audio Failsafe

The Sine Systems AFS-2 Audio Failsafe is typically used to trigger an alarm on a remote control system or terminate



transmission if program audio fails. It monitors one or two audio signals and provides a relay contract closure as long as audio is present on at least one of the two audio inputs. When no audio is present on either input for a preset length of time, the relay contacts open and an Alarm LED lights. The length of the delay is adjustable from 7 seconds to 4.5 minutes.

AFS-2	Audio Failsafe	\$260.00
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RF Related Products • Antennas

Andrew P, PAR, PL, PX & PXL Series

Microwave Antennas



The Andrew P, PAR, PL, PX and PXL Series Standard Parabolic Antennas are unshielded parabolic antennas that provide economical and reliable service where high degrees of back and side radiation suppression are not necessary. Features include: low-VSWR versions minimize echo distortion for less noise on the system • a vertical tower mount is included. Optional mounts and radomes can be ordered separately for versatility of installation • single and dual-polarized options available in most applicable frequencies • spun aluminum reflectors provide long term reliability and minimize environmental distortion to protect system investments

• provide rugged, high-quality performance at low initial costs • PAR Series - FCC Category A antennas for 6, 10, and 11 GHz bands.

Antenna Specialists & Decibel



Decibel Base Commander, UHF Broadband Collinear Fiberglass Vertical Base Station, 7dB Gain

ASPRD700	450-460MHz	\$525.00
ASPRE700	455-465MHz	\$525.00
ASPRF700	460-470MHz	\$525.00
ASPR615	Side Tower mounting kit, mounts antenna 18" to 36" from tower	\$305.00
ASPR616	Base station tower clamp set (2 clamps per unit); galvanized	\$59.00

Antenna Specialist Whip antenna, magnet mnt., 5dB Gain

ASP-7654	445-470MHz	\$75.75
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Cushcraft

The Cushcraft UHF Mobiles are rugged high performance 406-512MHz stainless steel antennas, available with either PL259 or mini-UHF connector. A molded center phase prevents shock-induced damage and moisture contamination. The all-brass hardware and ultrasonically welded-in brass threads eliminate the electrolysis effect of dissimilar metals. Cushcraft includes a full 16.5 feet of RG58A/U cable with 97% braid coverage and all brass mount hardware.

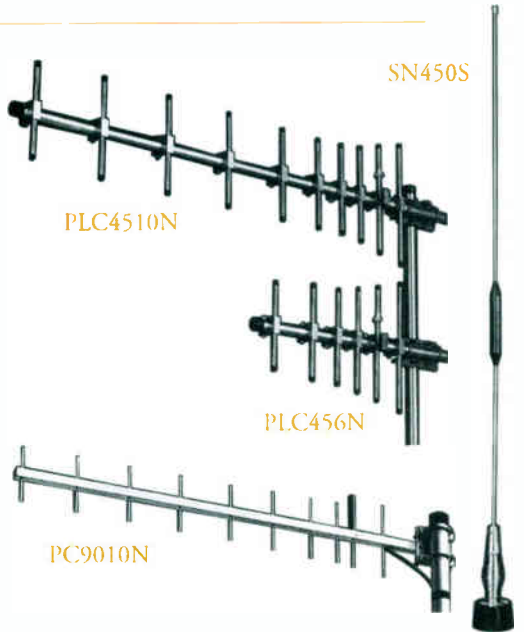
SN450S	450-470MHz, 5dB, Collinear, hole mount with spring and RG-58	\$65.00
SN450MS	As above but black magnet mount	\$85.00

The heavy-duty Cushcraft PLC Series Yagis are factory assembled and adjusted for easy installation. They feature heavy-wall tubing elements and large rugged machined aluminum blocks for the boom-to-element junctions. Six and ten element models are available.

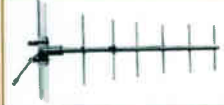
PLC-456N	450-470MHz, 7.5dB gain, N connector, 125 mph wind surv., 8 lbs.	\$152.00
PLC-4510N	450-470MHz, 11.5dB gain, N connector, 125 mph wind surv., 12 lbs.	\$217.00

Ruggedized mounting, all-welded joints, and complete weatherproofing are yours with Cushcraft 900MHz Yagis. At these frequencies, antenna construction is critical. As in all PC Yagis, the elements are welded to the boom. The pigtail feed will withstand a 50 pound pull, and makes connector weatherproofing a snap.

PC9010N	928-960MHz, 12dB gain, 10 elements, N connector, 125 mph wind surv., 3 lbs.	\$112.00
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Decibel



Model	Pattern	Gain in dB	Frequency (MHz)	Price
DB264A	Broadband Array, Omni	6.0	150-160	\$695.00
DB411B	Offset pattern antenna	9.0	450-512	\$385.00
DB420B	Broadband, Omni	9.2	450-512	\$845.00
DB432A	6 Element Yagi, economy	8.0	450-470	\$119.00
DB436C	6 Element Yagi, flex lead	10.0	406-512	\$235.00
DB438C	6 Element Yagi, boom conn.	10.0	450-470	\$285.00
DB536G	Omnidirectional	5.5	450-460	\$620.00
DB538G	Omnidirectional	7.5	450-460	\$840.00

Decibel manufactures RF amplifiers and repeaters, baseband and notch cavity filters, combiners, duplexers, ferrite isolators, monitor systems, multicouplers, and more antennas. Call Broadcasters General Store for the Decibel Products catalog

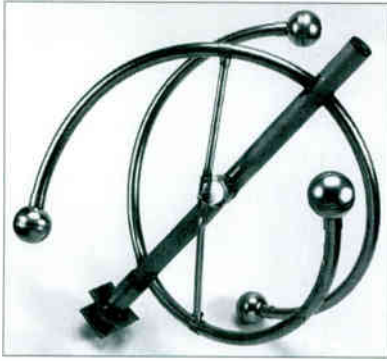
Comtech 3.0 and 3.8 Meter Antennas

Comtech's 3.0 and 3.8 meter antennas keep installation costs down with a single pole mount and three-piece reflector design. The use of Comtech's unique splice-strap system yields a superior surface tolerance. The 3.8 meter has a gain of 42.9dB, ideal for SMATV, radio SCPC and Cable TV applications. The EI/Az mount permits 360° azimuth adjustment without costly foundation alignment. The elevation jack provides smooth elevation adjustment from 0 to 70°. The polar-mounted system can be selected in either manual or motorized versions. It tracks the arc with just one adjustment. The motorized version comes with its own control system. Comtech's 3.8 meter is also available in a low-profile transportable version supplied ready to roll.



	3 M	3.8 M
G2 Dual Polarization Manual Feed	\$2,995.00	\$3,420.00
G4 Dual Polarization Motorized Feed & EC1 Control	\$3,760.00	\$4,585.00

RF Related Products • Antennas



Dielectric DCR Series

Circular Polarized FM Antennas

The Dielectric DCR Series of Circularly Polarized FM Antennas are available for all powers, short spaced or directional applications. Optional decibers or radomes available as well as 1/4 scale pattern optimization. Standard types available as follows:

DCR H .. 4 to 12 KW Low Power, 1 to 8 bays \$4,200 to \$25,200
 DCR C ... 10 to 40 KW Medium Power, 1 to 12 bays \$4,800 to \$42,600
 DCR M .. 18 to 40 KW High Power Broad Banded, 1 to 12 bays ... \$5,950 to \$82,000



ERI

ERI LPX is a rugged, brass and copper, wide bandwidth antenna, with 1-5/8" tubing throughout. Rated at 9kW input for end fed models and 12kW for center fed. Center fed models have 3-1/8" female EIA input. End fed are 1-5/8" EIA female. Many options available.

LPX .. Prices from \$ 3,207.00 to \$34,230.00

Low Power (CP-11A)

This half-wave spaced system is ideal for low power and booster sites with a maximum input of 500w to 2000w. It is available only in even numbered bays connected with non-pressurized RG-type cable. Terminated with a UHF female or 1-5/8" male EIA connector.

CP-11A Prices from \$1,175.00 to \$7,900.00

Medium Power (1105A/B)

The 1105A, 1-5/8" system offers up to 8 bays to a maximum level of 7.5kW. The 1105B, 3-1/8" system offers up to 12 bays (in pairs only) with a maximum power of 12kW. Due to their light weight, they're ideal for small structures. Many options available.

1105A/B Prices from \$1,805.00 to \$23,037.00

High Power (SHPX)

This rugged, all brass and copper, large element antenna produces a wide bandwidth and a uniform energy distribution. The "A" series, 3-1/8" inter-bay line, is rated between 32kW and 64kW. The "B" series, 4-1/8" inter-bay line, is rated at 40kW to 112kW. The "C" series, 6-1/8" inter-bay line is rated for up to 120kW! Many options available.

SHPX Prices from \$4,464.00 to \$100,798.00

PATRIOT Commercial Antenna Systems



3.8 Meter w/Az-El Pole Mt. \$2,875.00
 w/Horizon to Horizon \$5,095.00
 w/Navigator Mt. \$6,000.00
 w/Az-El Kingpost \$5,550.00
 w/Dual Axis Kingpost
 (Includes Actuators) \$6,185.00

Mark Antennas

Mark Antennas meet or exceed every existing F.C.C. requirement, are lightweight, strong, heli-arc welded aluminum, multi-element parabolic grid antennas. One of the outstanding characteristics of a grid antenna is the low wind loading figures, usually 25 to 40% of solid dishes.

When ordering please specify frequency.

Mark 940-960 MHz Parabolic Grids

Diameter	..... Pressurized	..... Non-Pressurized	..... Non-Pressurized	..... Price
	7/8" EIA Flange	7/8" EIA Flange	"N" Female	

-Note -1 includes mounting hardware for a 1.9"-4.5" vertical O.D. pipe

4 Ft	..... P-9A48G-U	..... P-9A48GF-U	..... P-9A48GN-U	.... \$1,110.00
6 Ft	..... P-9A72G-1	..... P-9A72GF-1	..... P-9A72GN-1	.... \$1,450.00

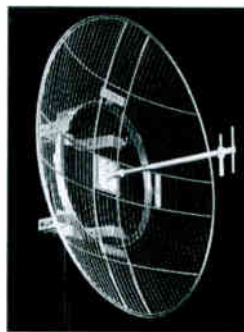
Diameter	..... Pressurized	..... Non-Pressurized	..... "N" Female	..... Price
	7/8" EIA Flange	7/8" EIA Flange	"N" Female	

-Note -2 includes mounting hardware for a 4.5" vertical O.D. pipe ONLY

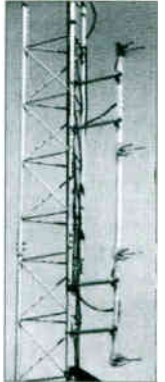
6 Ft	..... P-9A72G-S	..... P-9A72GF-S	..... P-9A72GN-S	.... \$1,570.00
8 Ft	..... P-9A96G-S	..... P-9A96GF-S	..... P-9A96GN-S	.... \$2,330.00
10 Ft	..... P-9A120G-S	..... P-9A120GF-S	..... P-9A120GN-S	.... \$2,960.00

*Other diameters, frequency ranges, mounts and styles are available.
 Call Broadcasters General Store for a Mark catalog.*

Marti



HA-450

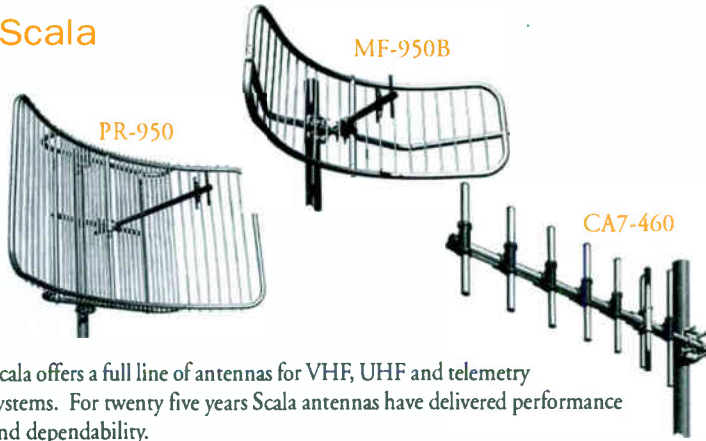


Model	..... Pattern	..... Gain (dB)	..... Freq.(MHz)	..... Price
SC-48	..... 4' full range parabolic	..... 19.0	..... 940-960	..... \$895.00
YC-XXX	..... 5 element Yagi, specify freq.	..... 9.0	..... 152.08-170.45	..... \$225.00
YC-450	..... Yagi, 6 element	..... 10.0	..... 450.01-455.99	..... \$225.00

The Marti HA-450 base antennas will give you up to 30dB isolation from vertically polarized UHF transmitters. This antenna will minimize annoying interference during remote broadcasts.

Model	..... Gain (dB)	..... Mounting Length	..... Mounting Weight	..... Price
HA-450-1	..... Unity	..... 12-3/4"	..... 3 lbs.	..... \$175.00
HA-450-2	..... 3.0	..... 25-1/2"	..... 4-1/2 lbs.	..... \$350.00
HA-450-4	..... 6.0	..... 78"	..... 9-1/2 lbs.	..... \$990.00

Scala



Scala offers a full line of antennas for VHF, UHF and telemetry systems. For twenty five years Scala antennas have delivered performance and dependability.

Aural STL and inter-city relay systems

Model	Description	Gain (dBd)	Mhz	Mount	Connector	Price
PR-950	Paraflector®	20.0	940-960	H or V	N	\$650.00
MF-950B	Miniflector®	14.0	940-960	V only	N	\$340.00

Model	Description	Gain (dBd)	Mhz	Mount	Watts	Price
PR-460	Paraflector®	15.5	450-470	H or V	100	\$650.00
CA7-460	Seven-element Yagi	10.0	450-470	H or V	250	\$220.00

Note: No mounting hardware included with Scala Antennas. Mounting brackets are available for a wide range of applications. MKPX-8 is the standard mounting bracket for PARAFLECTORS at \$50.00 Must be ordered separately!

Call Broadcasters General Store for a complete Scala catalog.



Precision Off-Air Monitoring

Model	Description	Mhz	Mount	Polarity	Ω's	Price
CL-FM/HCM	Broadband Log	88-108	C	H	50 or 75	\$550.00
CL-FM/HRM	Broadband Log	88-108	R	H	50 or 75	\$600.00
CL-FMRX/HCM	Broadband	88-108	C	H		\$415.00
CL-FMRX/HRM	Broadband	88-108	R	H		\$510.00
CL-FMRX/VRM	Broadband	88-108	R	V		\$440.00

Specify 50N, 75N or 75F

Model	Description	Gain (dBd)	Mount	Polarity	Ω's	Price
HDCA-5/HCM	5-element FM Yagi	7.5	C	H	75	\$370.00
HDCA-5/HRM	5-element FM Yagi	7.5	R	H	75	\$440.00
HDCA-5/CP/RM	5-element FM Yagi	7.5	R	C	75N	\$1,300.00
	(Specify Channels)				75F	\$1,050.00
HDCA-10/HCM	10-element FM Yagi	9.5	C	H	75	\$550.00
HDCA-10/HRM	10-element FM Yagi	9.5	R	H	75	\$570.00

Specify 75N or 75F and frequency

Model	Description	Mhz	Mount	Polarity	Ω's	Price
CA5-FM/HCM	5-element FM Yagi	Specify	C	H	50(50N)	\$330.00
CA5-FM/HRM	5-element FM Yagi	Specify	R	H	50(50N)	\$370.00
CA5-FM/CP/RM	5-element FM Yagi	Specify	R	C	50(50N)	\$995.00

Whilburt HURRY-UP Mast

Standard Duty Masts

Part No.	Model No.	Conduit Length†	Price
902462	TMD-5-20-15x/16x	30'	\$4,140.00
902543	TMD-6-27-15x/16x	40'	\$4,500.00
902544	TMD-7-34-15x/16x	60'	\$4,840.00
903073	TMD-8-30-15x/16x	50'	\$3,540.00
900158	Canvas Top Cover (opt)		\$58.00

Heavy Duty Masts

903151	TMD-6-25-35x/36x	40'	\$5,570.00
902985	TMD-6-30-35x/36x	50'	\$9,780.00
902352	TMD-7-30-35x/36x	50'	\$5,910.00
902890	TMD-7-30-45x/46x*	50'	\$9,360.00
902342	TMD-7-42-35x/36x	70'	\$9,380.00
902343	TMD-7-42-45x/46x*	70'	\$11,330.00
902604	TMD-8-5-52-35x/36x	100'	\$10,450.00
902623	TMD-8-5-52-35x/36x	100'	\$11,260.00
900210	Canvas Top Cover (opt)		\$72.00



HURRY-UP Mast

903614	25' HURRY-UP	\$1,600.00
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*Normal delivery is 1-4 weeks; items marked * -up to 12 weeks
†Notes NYCOIL length calculations for std non-locking collar mast model

How to Order-TMD Model Coding TMD-X-XX*-XXX**

X* Notes	Nested height in feet
XX** Notes	Extended height in feet
XXX*** 1st X position Notes-	1. Std duty, non-locking 2. Std duty, locking
XXX*** 2nd X position Notes	3. Hvy duty, non-locking 4. Hvy duty, locking
XXX*** 3rd X position Notes	5. Rotatable (Manually) 6. Non-rotatable
	7. Internal mt. 8. External mt. 9. Field mast
	Specify top interface - Antenna stub, or platform adapter when ordering.

Pneumatic Systems

Part No.	Model No.	Description	Price
902860	TMD-C-287	115 VAC, 1/6 HP	\$920.00
902861	TMD-C-288	12 VDC, 1/8 HP	\$920.00
902257	TMD-C-267	115 or 230 VAC, 1/2 HP	\$1,560.00
902297	TMD-C-271	12 VDC, 1/3 HP	\$1,790.00
902674	TMD-D-278	115 VAC & 12 VDC, 1/2 & 1/3 HP	\$2,540.00
902404	TMD-C-275	115 or 230 VAC, 3/4 HP	\$1,380.00
902675	TMD-D-284	12 VDC, 1/3 HP	\$1,560.00
902193	TMD-D-289	220V/50Hz, 1/2 HP	\$1,430.00
903909	TMD-C-294	220V/50Hz, w/tank, 1/2 HP	\$1,535.00
902566	TMD-C-280	Hand Pump	\$385.00
900484	Filter-Regulator-Lubricator		\$190.00
900634	Filter-Lubricator		\$125.00
900481	Swivel Air Fitting with Adapter		\$59.00

Unwired NYCOIL Cable Conduit

Lgth.	1/2" IDx9" OD	3/4" IDx13" OD	1" IDx16-1/2" OD
30'	900507-\$70.50	900443-\$148.50	900444-\$258.00
40'	900507-\$94.00	900443-\$198.00	900444-\$344.00
50'	900507-\$117.50	900443-\$210.00	900444-\$420.00
60'	900507-\$141.00	900443-\$252.00	900444-\$504.00
70'		900443-\$311.50	900575-\$660.00
80'		900443-\$356.00	900575-\$660.00
100'		900443-\$390.00	900444-\$775.00

*For installation of customer supplied cables in NYCOIL cable conduit contact BGS for quote.

Weather-tight Strain Relief Connectors

Part No.	Description	Price
900540	90° ell for 1/2" ID NYCOIL	\$22.00
900539	90° ell for 3/4" ID NYCOIL	\$32.00
900574	90° ell for 1" ID NYCOIL	\$52.00

RF Related Products • Cable

Andrew Corporation

Andrew Corporation provides cable, rigid transmission line, dehydrators, broadcast antennas, coaxial switches, and accessories. Phase stable, super-flexible, high temperature, low VSWR and 50 or 75 ohm are some of the types available. Please remember that some cable sizes come on a returnable reel, which requires a deposit and a return freight charge.



Call Broadcasters General Store for an Andrew catalog.

Cable size Part Number Attenuation dB/100ft Connectors Price
960MHz/450MHz/100MHz

1/4" Superflex Foam	FSJ1-50A	5.87dB/3.93dB/1.81dB		\$1.66/ft
	F1PNM-H		N Male	\$25.00
	F1PNF-BH		N Female bulkhead	\$38.75
	40417		50pc. nylon tie kit	\$36.00
	223158		Grounding kit	\$24.00
3/8" Foam Dielectric	LDF2-50	3.47dB/2.3dB/1.05dB		\$1.89/ft
	L2NM		N Male	\$27.75
	L2NF		N Female	\$27.75
1/2" Foam Dielectric	LDF4-50A	2.29dB/1.51dB/.684dB		\$2.55/ft
	L4NM		N Male	\$31.70
	L4NF		N Female	\$31.70
	43211A		10pc. hanger kit	\$31.00
	31670-2		2"-3" round member adapter kit	\$25.00
	204989-1		Grounding kit	\$23.00
	43094		Hoisting grip	\$29.00
7/8" Foam Dielectric	LDF5-50A	1.28dB/.834dB/.369dB		\$5.85/ft
	L5NM		N Male	\$77.00
	L5NF		N Female	\$77.00
	42396A-5		10pc. hanger kit	\$41.00
	31768A		10pc. angle adapt kit	\$67.00
	204989-2		Grounding kit	\$29.00
	19256B		Hoisting grip	\$43.50

108MHz/100MHz/88MHz

1-5/8" Air Dielectric	HJ7-50A	.215dB/.207dB/.194dB		\$17.20/ft
	87R		1-5/8" EIA (GP)	\$268.00
	87G		1-5/8" EIA (GB)	\$309.00
	42396A-2		10pc. hanger kit	\$41.00
	31771-4		12" thread rod (5pc)	\$80.00
	204989-4		Grounding kit	\$30.00
	24312A		Hoisting grip	\$51.00
3" Air Dielectric	HJ8-50B	.147dB/.140dB/.131dB		\$29.70/ft
	H8MP-302		3 1/8" EIA (GP)	\$500.00
	H8MB-302		3-1/8" EIA (GB)	\$500.00
	31766A-11		10pc. hanger kit	\$70.00
	31769-1		10pc. hwr. kit (1")	\$13.50
	204989-5		Grounding kit	\$32.00
	26985A		Hoisting grip	\$78.00

Easiac Tool



Easiac kit consists of tool, instruction sheet and 5 extra blades.

Easiac makes a clean cut and decreases the risk of cutting the inner conductor.

#207866	For LDF4-50A and LDF4-75, replacement blades #209874	\$30.00
#207865	For FSJ1-50A/75 and FSJ4-50B/75A, replacement blades #209874 (Does not have jacket cutting blade)	\$30.00
#222951	For LDF5-50A, replacement blades #222954	\$45.00



Bird Model 43

Directional Wattmeter

The Bird Model 43 thru-line directional wattmeter accurately measures forward or reflected power in coaxial transmission lines under any load condition. This wattmeter consists of a line section and meter housed in an aluminum case. Quick-change-type connectors and plug-in elements are required for operation.

43 CW/Portable \$276.00
Elements Specify frequency and power .. From \$68.00

Bird 3126A & 3127A

Watcher® RF Power Monitor



The Bird 3126 & 3127 protect installations from high VSWR, measuring power from 250W to 250kW at frequencies from 2-1000MHz. Abnormal load conditions quickly cause transmitter shutdown, a buzzer alarm, and a change of illumination color of the reset button. Audible and visual alarms indicating system malfunction may be removed.

3126A For rigid lines
(15/30/60 scale meters) \$1,075.00
3127A For rigid lines
(5/10/25 scale meters) \$1,075.00

PolyPhaser Lightning Protection

PolyPhaser corporation designs quality lightning protection and grounding solution products. Products included: AC power protectors • worldwide plug/socket patterns • DC power protectors • grounding solutions • grounding components • test equipment • twisted pair/cable protectors • DC injector/DC path • DC type • combiner protectors • RF coupled shield/DC blocked • DC blocked filter • DC blocked. We chose two products to highlight.

PolyPhaser High Power Coaxial Protectors

PolyPhaser High Power Coaxial Protectors feature: 25kW high powered HF • EMP and lightning • EIA flanges: 1-5/8" and 3-1/8" • DC to 220Mhz typical bandwidths • fast <25ns turn-on time • unique PolyPhaser gas tube design for fast response and fast restoration • field replaceable gas tubes available • air tight "through" for dry air or N pressure (15#psi) • and stainless steel hardware and gasket.



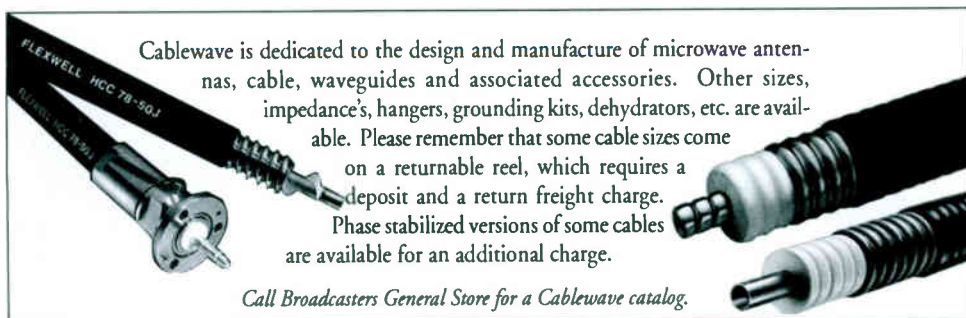
IS-318E w/ 3-1/8" EIA connector, flange mt. \$814.95
IS-158E w/ 1-5/8" EIA connector, flange mt. \$574.95

Note: Gas tube must be ordered separately.

Visit Us @ www.bgsfl.com

World Radio History

Cablewave



Cablewave is dedicated to the design and manufacture of microwave antennas, cable, waveguides and associated accessories. Other sizes, impedance's, hangers, grounding kits, dehydrators, etc. are available. Please remember that some cable sizes come on a returnable reel, which requires a deposit and a return freight charge. Phase stabilized versions of some cables are available for an additional charge.

Call Broadcasters General Store for a Cablewave catalog.

Cable size	Part Number	Attenuation dB/100ft	Connectors	Price
950MHz/450MHz/100MHz				
1/2" Foamflex	FXA12-50J	2.9dB/1.8dB/.84dB		\$2.01/ft
	735000/735001		N Male/Female	\$31.00
	735002/735003		UHF M/F	\$31.00
	735005		HN Male	\$79.00
7/8" Foamflex	FXA78-50J	1.8dB/1.2dB/.49dB		\$5.04/ft.
	734380		7/8" EIA	\$272.00
	735100/735101		N Male/Female	\$72.50
3/8" Foam Flexwell	FLC38-50J	3.8dB/2.5dB/1.1dB		\$1.89/ft
	734761/734762		N Male/Female	\$35.20
	734773/734774		UHF M/F	\$44.00
1/2" Foam Flexwell	FLC12-50J	2.3dB/1.6dB/.69dB		\$2.50/ft
	738802/738801		N Male/Female	\$31.70
	738804/738803		UHF M/F	\$27.35/\$28.20
	738807		7/8" EIA	\$112.00
7/8" Foam Flexwell	FLC78-50J	1.3dB/.85dB/.37dB		\$6.18/ft.
	738841/738842		N Male/Female	\$77.00
	738843/738844		UHF M/F	\$73.00/\$74.00
	738845		7/8" EIA (GP)	\$116.00
108MHz/100MHz/88MHz				
1 5/8" Air Flexwell	HCC158-50J	.2dB/.195dB/.19dB		\$16.22/ft
	738303		1-5/8" EIA (GB)	\$300.00
	738314		1-5/8" EIA (GP)	\$260.00
	738300/738301		N Male/Female	\$240.00
3" Air Flexwell	HCC300-50J	.15dB/.14dB/.13dB		\$29.12/ft
	738350		3 1/8" EIA (GB)	\$465.00
	738355		3 1/8" EIA (GP)	\$440.00
3-1/2" Air Flexwell	HCC312-50J	.12dB/.11dB/.095dB		\$31.98/ft
	734578		3-1/8" EIA (GB)	\$692.00
	734579		3-1/8" EIA (GP)	\$672.00

Broadcasters General Store



Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com

Coaxial Dynamics

Directional RF Wattmeters



Coaxial Dynamics High Power Series of Directional RF wattmeters are designed to measure RF power in 50Ω coaxial transmission line. Several different models are available. The external line section

can be used with accessory cables (10' normally supplied) up to 200' from the meter. The meter unit is protected by a rugged, shock-proof housing. On the back of the housing are two sockets for storing additional measuring elements. The high quality meter utilized three computer generated scales and advanced taut band technology for reliability and accurate readings. Features include: 4-1/2" mirrored scale • gold plated plug-in elements • and 2 year limited warranty. Elements for these wattmeter range in price from \$110 to \$147.

- 81100-A 1-5/8" Directional RF Wattmeter \$676.00
- 81600-A 6-1/8" Directional RF Wattmeter .. \$1,440.00

The Coaxial Dynamics 81000-A wattmeter can measure RF power in 50Ω coaxial cable and transmission lines, and accept plug in elements in the range of 0.1 to 10,000 watts full scale, and from 0.45 to 2300Mhz. Complete with a built-in line section, the "Quick Match" RF connectors for 50Ω cables and transmission lines offer the speed and reliability you expect from Coaxial Dynamics.



Connect the wattmeter between the power source and antenna or "dummy" load, plug in the appropriate measuring element and select forward or reflected direction. The RF power is visually identified directly on the 4-1/2" three scale display. The 81000-A can be used with accessory cables up to 200' from the meter. The 81001-A RF wattmeter has the added feature of an auxiliary DC input, providing the option of single meter measurement of several power sources. Line sections (eg. PN88525) are permanently installed at these measurement points, with model 810001-A connected to each as needed. The DC signal is coupled from the line section to the auxiliary DC input to provide the same measuring capabilities as the basic model 81000-A. Elements for these wattmeter range in price from \$68 to \$142.

- 81000-A Average Reading Directional RF Wattmeter \$248.00
- 81001-A As above w/auxiliary DC input \$343.00

Coaxial Dynamics Watchman

The Coaxial Dynamics, Watchman rackmounted monitor/alarm measures forward and reflected RF power simultaneously in 50Ω transmission lines. It is compatible with their 7/8" thru 6-1/8" line sections and will accept plug in elements that range from 5 watts to 100,000 watts full scale at frequency ranges of 0.45Mhz to 2.3Ghz. Model 81070 meters have 5/10/25 scales while the 81090 has 15/30/60 scales. Both models feature forward and reflected trip adjustments. Can be powered from either 110 or 220v sources. A station monitor/alarm system installation consists of a Watchman, a dual socket line section and two elements for monitoring both forward and reflected power. The Watchman is supplied with two 25' DC cable assemblies for connection to the line section, and a 6' AC power cord.



Installation requires inserting the line section into the transmission line, and connecting the proper terminals of the transmitter interlock system(s) to the proper terminals on the Watchman and providing AC power. Abnormal load conditions quickly cause transmitter shut down in less than 15 milliseconds (including control relay). An audible single tone alarm will indicate system/transmitter malfunction. Relay contacts are provided for remote alarm and reset switching. Fail-safe or nonfail-safe mode is selected by a switch located on the rear of the instrument. Element selection: suggest using a 10:1 ratio ie: 10kW forward and 1kW reflected.

81070	\$1,029.00
81090	\$949.00

Myat

RF Transmission Products

Miter Elbows (X01-021) are used at the top of the tower to bring the vertical run close to the support structure (a short horizontal section of line assembly may also be necessary at this point). At the bottom of the vertical run, one or two miter elbows connect the vertical and horizontal sections while allowing room for expansion and contraction.

Rigid Hangers (X01-042-1) are used at the top of the tower to stabilize the connection between the transmission line and the antenna feed line. Normally a pair of rigid hangers spaced 10' apart is sufficient.

20' Rigid Line Assemblies (X01-001/007) compose the vertical and horizontal runs. Myat can also supply sections in any specified length, with or without flanged ends. Pressurized and unpressurized line sections are both readily available.



Spring Hangers (X01-042-3) are placed at a maximum of 10' intervals to allow the main portion of the vertical run to expand and contract with temperature changes.

A Lateral Brace (X01-042-8) at the base of the tower prevents side-to-side movement of the transmission line.

Three Point Suspension Hangers (X01-042-17) support the horizontal run while allowing for expansion and contraction.

Anchor Plates (X01-042-5) are required on each side of the transmitter building's outside wall.

Series 301 (3-1/8" Rigid, 50Ω) Pricing

301-001	20' line assembly, flanged both ends, hdwre include., 55.2 lbs.	\$600.00
301-002-xxx ...	Same as above, but customer specified length, 2.6 lbs./ft + 4.5 lbs.	\$160+\$23/ft
301-004	20' line assembly, unflanged, no hdwre, 50 lbs.	\$490.00
301-006	Same as 301-001, but only one end flanged, 54 lbs.	\$550.00
301-008	Fixed flange for silver brazing	\$36.00
301-009	Swivel flange for silver brazing	\$60.00
301-013	Field flange adapter, pressurized, soft solder type	\$84.00
301-014	Flange adapter, unpressurized w/hose clamp	\$85.00
301-017	Coupling assembly w/inner connector for 2 unpressurized line assemblies	\$94.00
301-021	90 Degree Elbow, flanged w/hdwre	\$380.00
301-025	90 Degree Elbow, unflanged	\$186.00
301-050	Gas barrier with 1/8" NPT gasport	\$325.00
301-138	Manual patch panel (3,4,5, or 7 pole)	From \$1,400-\$2,900.00
301-042-1	Fixed hanger, Top of vertical run (2 min.)	\$65.00
301-042-3	Vertical spring suspension hanger	\$80.00
301-042-5	Wall anchor plate (2 per wall)	\$98.00
301-042-17	3-Point horizontal spring hanger	\$150.00

Please call for information and pricing on the Series 401(4-1/16") 50Ω, 601(6-1/8") 50Ω, 701(6-1/8") 75Ω, 801(9-3/16") 75Ω or a Myat catalog.

Myat Manual Patch Panels



Patch Panels	1 5/8" 50Ω Patch Panels	3 1/8" 50Ω Patch Panels		
3 Pole, with 1 "U" Link	201-138-3-*	\$1,050.00	301-138-3*	\$1,400.00
4 Pole, with 2 "U" Link	201-138-4-*	\$1,450.00	301-138-4*	\$1,900.00
5 Pole, with 2 "U" Link	201-138-5-*	\$1,650.00	301-138-5*	\$2,200.00
7 Pole, with 3 "U" Link	201-138-7-*	\$1,800.00	301-138-7*	\$2,900.00

* Interlocks - Add \$70.00 per each SPDT Interlock Switch required. Example: PN201-138-4-4S=Patch Panel - 4 Pole with 4 SPDT Interlocks.
 * Interlocks - Add \$80.00 per each DPDT Interlock Switch required. Example: PN201-138-3.2D=Patch Panel - 3 Pole with 2 DPDT Interlocks.

RF Related Products • Cable

Delta Electronics Motorized Coaxial Transfer Switches



Delta Electronics offers manually or remotely operated Coaxial Transfer Switches. They can switch pairs of transmission lines in less than two seconds. If only three of the terminals of the switches are employed, the switches can be used as SPDT types.



The Models 6740B and 6742B can be pressurized up to 15 lb./sq. in. A gas barrier is built into each terminal, and an air inlet port is provided. Internal switch contacts enable remote control and status indication.

6730E	0-400Mhz, 1-5/8, 13 lbs.	\$3,000.00
6730E1	0-900Mhz, 1-5/8, 13 lbs.	\$3,135.00
6740B	0-216Mhz, 3-1/8, 65 lbs.	\$7,100.00

Dielectric Motorized Coaxial Transfer Switches



Dielectric coaxial transmission line switches will accommodate single or multiple-line RF power, maintain high reliability, maximum isolation, low VSWR, and may be mounted in any position. The A50000 series are motorized blade type coaxial SPDT or 4 port transfer switches. Switch position is indicated by a mechanical pointer and through auxiliary switches. Manual operation is also provided. The switching time of the following switches is 2 seconds, all have 4 ports, E.I.A. flange termination, and 50Ω impedance.

A50000-1XX	7/8	\$2,980.00
A50000-20X	1-5/8, 42 lbs.	\$4,990.00
A50000-30X	3-1/8, 54 lbs.	\$5,315.00
A50000-40X	4-1/16, 70 lbs.	\$6,345.00
A50000-6XX	6-1/8	\$13,800.00

X is determined by the motor drive and control relay coil voltage and # of ports.

MCI Motorized Coaxial Transfer Switches



MCI Coaxial Transfer Switches, as four-port transfer switches will switch two signal sources between loads. Since they can also be used as SPDT switches, complex switching matrices can be easily assembled. A unique feature of these switches is the coplanar port configuration that permits neater, more compact layouts and requires fewer elbows. Switch action is accomplished by a standard high torque gear motor and is bi-directional to positive stops. In the event of loss of control power, these switches can be operated manually. The switching speed of the following switchers is 2 seconds with a maximum of 3 seconds. Standard E.I.A. male connector.

MCI Coaxial Transfer Sitches

61101	7/8", 10lbs.	\$2,550.00
61103	1-5/8", 12lbs.	\$2,900.00
61104	3-1/8", 34lbs.	\$3,800.00
61102	4-1/16", 46lbs.	\$5,400.00
61105	6-1/8", 85lbs.	\$6,800.00

RF Related Products • Composite DAs

Broadcast Devices CDS-200 Composite DA/Switcher



The Broadcast Devices CDS-200 Composite DA/Switcher was designed to allow two switchable sources to be distributed to three location. Sources within the bandwidth of 10Hz to 100Khz such as composite audio, SCA or SAP signals can all be accommodated. Each output uses individual output amplifiers for maximum isolation. Level adjustments, switcher controls and a test jack for non-intrusive connection to a scope or spectrum analyzer are conveniently located on the front panel. The switcher has remote control capability with status that is compatible with virtually all remote control telemetry systems in use today.

CDS-200	Composite DA/Switcher	\$825.00
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Dixon CS-200 Dual Mode Composite Switcher & DA



The Dixon CS-200 is a dual mode composite switcher and distribution amplifier that's easy to interface with

most any plant control system. In "Remote" mode, the unit allows remote selection of one of two composite signals and provides three independent and isolated outputs for each transmitter. When operated in "Local" mode, there's front panel selection of the composite source for each transmitter. Features include: full remote status • built-in power fail with bypass and status • last remote command memory with status and automatic return • outputs for transmitters 1 & 2 as well as two additional outputs for modmonitors, oscilloscopes, etc. and multi-turn adjustable level for each output.

CS-200	\$899.00
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Excalibur CDA-1 Composite Distribution Amplifier



The Excalibur CDA-1 Composite Distribution Amplifier is a 1-in, 3-out

distribution amplifier for stereo composite or subcarrier signals, with each output individually adjustable. For sites with ground loop problems, a ground lift switch is provided on the rear panel to separate the circuit ground from the power ground and chassis. A transient protector is part of the power supply circuitry for protection in hostile environments. 1U



CDA-1	Composite Distribution Amplifier	\$420.00
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Modulation Sciences CLD-2504

FM & TV Stereo Composite Distribution Amplifier



The Modulation Sciences CLD-2504 is an FM and TV Stereo Composite Distribution Amplifier providing four outputs. Each output is low impedance and can drive long transmission lines terminated in 50 or 75 Ωs. With more than 40dB of isolation there is no interaction among loads.

CLD-2500	Line Driver / Receiver Set	\$1,860.00
CLD-2501	Composite Line Driver (1 in/2 out)	\$975.00
CLD-2502	Composite Line Receiver (1 in/1 out)	\$925.00
CLD-2504	Composite DA (1 in/4 out)	\$950.00

RF Related Products • Dehydrators

Andrew Dehydrator

Andrew pressurization equipment can improve the performance of your premium antenna system components. The Andrew MT-050 is a small, compact, fully automatic membrane dehydrator. Ideal for pressurizing systems up to 10 ft³ in volume.



MT-050-81015 DryLine Dehydrator \$2,199.00

Dielectric 600 Dehydrator

Dielectric manufactures several models of small capacity, self-regenerating, air dryers that are ideally suited for broadcast transmission line and waveguide pressurization applications. The model 600 has a maximum output of 750 SCFD and can be operated from 115 or 230V power sources. These units feature a built-in air storage tank to reduce cycling and extend component life. The twin tower design is a heatless drying system that will offer years of trouble free operation. The efficient design make these compact units ideal for all small capacity dry air requirements. These air dryers are available with various output pressure/alarm configurations designated by the A through D suffix for each model. Contact BGS for complete information on current options.



600 Prices from \$3,370.00

Environmental Technology



The Environmental Technology ADH-2ACOM Automatic Dehydrator supplies low pressure dry air to keep waveguide and coax moisture free. Automatic regeneration, an alarm relay and a RS-422 communications interface make unattended operation practical. Regeneration occurs when needed rather than at

fixed times and does not need a drain line. Maximum power consumption is 120W during regeneration while averaging less than 40W in typical operation. 3U

Environmental Technology introduced the new ADH™-3COM computerized air dehydrator with automatic regeneration. It satisfies the need for low pressure dry air required in satellite earth stations and general purpose microwave applications. Maximum power consumption is 146W during regeneration while averaging less than 60W in typical operation. It employs: dual compressors for improved reliability and higher air flow • Low pressure and high humidity alarm relays are standard • monitoring of all parameters through its RS-485 serial communications port • and supports both the S-A and ETI proprietary protocols. To



EDH-3W

ensure safety and minimum power consumption, all internal pneumatic systems operate at the discharge pressure. 3U



EDH-4

ADH-2ACOM 14.2 cu/ft per hour
 Rack mount-#17696 \$2,495.00
 Wall mount-#17846 \$2,585.00
 Outdoor NEMA-17905 \$3,855.00
 Opt.-1 230V N/C
 Opt.-2 SI Calibration N/C
 Opt.-3 High Pressure, 6.0 PSI \$69.00
 Opt.-4 Extended Warranty \$207.00
 Opt.-5 High Pressure, 3.0 PSI \$69.00
 Opt.-6 Master configuration on dehydrator .. \$143.00

EDH™-4 6.0 cu/ft per hour Manually Regenerated Air Dehydrator
 #18021 (for small volume waveguide & coax \$800.00
 Optional Wall Mount-#17982 \$91.00
 Outside NEMA-#18250 \$1,795.00

EDH™-3W ... 2.4 cu/ft per hour Manually regenerated
 • Microprocessor control, Wall Mount #16672 \$545.00
 Opt. 1 230V \$102.00

ADH™-3COM 26.4 cu/ft per hour Automatic Regeneration \$2,594.00
 #17845, Wall Mount Version \$3,195.00
 #18136 Outdoor Mount Version \$4,049.00

RF Related Products • Dummy Loads

Bird Electronics

Bird Electronics offers a varied selection of RF loads in their Termaline Series: dry, oil dielectric, water cooled and forced air. They range in size from 2W load to 25kW models. Accessories include replacement coolants, dollies, step up/down flange adaptors, coupling kits, thermostats and water flow switches.

Coaxial Dynamics



Coaxial Dynamics' 4000 Series are dry, convection cooled RF loads ranging from 5W to 1kW and offer a two year warranty. The 85000 Series loads are liquid filled, convection cooled, blower assembly optional. They range in size from 600W to 10kW. Please specify connector size.

Coaxial Dynamics 84000 Series liquid-air loads are available to cover power ranges of 2.5 through 12.5kW over frequency range of DC to 2,400MHz. A wide variety of configurations are available to meet most applications. Many connectors, thermal switches and blower options are available.

Electro~Impulse

The Electro~Impulse DPTC-25KFM is an upright forced air cooled coaxial load rated at 25kW continuous from DC-110MHz with a VSWR @ 1.15 : 1. 3-1/8" EIA input is standard, 1-5/8" EIA may be substituted.

DPTC-25KFM \$4,150.00

Electro~Impulse makes several models of oil Dielectric RF loads from 500W to 5kW and dry, forced air loads from 5kW to 80kW with reflect load option (controls fan), as well as convection cooled and water cooled loads. Please specify connector size.



RF Related Products • EAS

CircuitWerkes EAS Trigger IV

The CircuitWerkes EAS Trigger IV is designed to interface Sage® Endecs to your automation system or any contact closures. The EAS IV takes contact closures and converts them to serial data that is used to trigger the required weekly or monthly tests. Up to four different, co-located, stations can be controlled using one Endec and the EAS IV.

EAS Trigger IV \$299.00

Gorman-Redlich EAS Encoder-Decoder



The Gorman-Redlich EAS Encoder-Decoder comes with 4 audio inputs, expandable to

6. It allows automatic interruption of program audio to insert EAS F.S.K. header codes, 2 tone attention signal as well as two minutes of stored digital audio and E.O.M. F.S.K. The two minutes of stored digital audio is expandable to 4.5 minutes. The stored audio will not include any 2 tone attention signals or 1050 cycle tone on the weather service transmitter. A four line, 40 character LED back-lit LCD display is used with a 20 position keypad switch to set modulation levels on your transmitter, and set audio input levels for the broadcast stations you are monitoring. The keypad is also used to compose alert messages if your station will be originating a message. Another keypad key transfers control from automatic operation to manual operation and back to automatic. While in automatic, the encoder-decoder will completely run the emergency alert function. When an alert is received, the display will tell you the time interval of the audio portion of the message. It comes with: five, two-way RS-232 Ports (1 dedicated to a computer input) • a 25 pin printer port for an external IBM compatible printer • and 52 terminals on the rear for inter-connecting to other equipment.

EAS \$1,750.00
 Programming Charge \$50.00
 CRW Weather Receiver \$540.00
 YA 6 element Yagi Antenna, 10dB, cut to weather frequencies \$125.00
 WA Whip Antenna, cut to weather frequencies \$20.00

Dayton AFC3

EAS Monitoring

The Dayton Industrial AFC3 was designed for professional monitoring or EAS monitoring. It includes three receivers: weather, FM, AM and Public Service Band 148 to 175 MHz. Features include: front panel carrier and modulation LED indicators • internal monitor speaker • front panel headphone jack w/volume control • Alert LED's and test/reset switch • 10 volt automotive type internal regulator allows vehicle or battery standby operation • and is 1U & 5.5lbs.



AFC3 \$399.00

Dayton AF810

Public Service Band Receiver

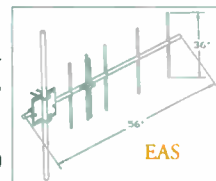
The Dayton Industrial AF810 receives broadcasts in the Public Service Band (148 to 175 MHz). It was designed to meet professional monitoring and EAS equipment input requirements. Features include: frequency of operation set by internal DIP and BCD switches in 500 Hz increments • external antenna (F-type) connector • dual sequential tone decoders (unmutes SPKR) • mute controlled SPKR output with volume control • RCA unbalanced output (balanced output DIN) • current consumption approximatedly 70mA standby • 10 volt automotive type internal regulator allows vehicle or battery standby operation • LED indicators for power and alert • tone controlled relay outputs NC and NO • headset output • & optional rackmount.



AF810 \$259.95

SITCO

The SITCO Antenna will increase your NWS reception! Frequency, 162MHz • 10dB Gain • SWR < 2:1 • Beamwidth 55 Degrees • Vertical polarization • and Female 75Ω termination.



EM5-1-EAS \$160.00

TFT EAS Encoder/Decoder

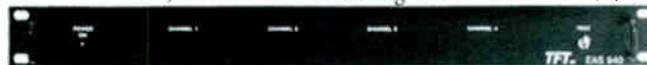


The TFT EAS911R4 EAS Encoder/Decoder design is the result of extensive input from some of the industry's most respected professionals. All design features and operations including front panel push-buttons and rear panel connections were thoroughly researched. Its features include: four balanced audio inputs (expandable to 10) • two RS-232 digital ports • RS-485 port • two relay outputs • balanced audio output • digital voice recorder • help and practice key for operator training • multi-purpose LCD display • easy-to-read 24 column impact printer uses standard, off-the-shelf adding machine paper • and a rear panel connection mutes printer and speaker while air mic is keyed.

EAS911R4 EAS Encoder/Decoder with four balanced audio inputs \$2,195.00
 Radio Pack EAS911R4 w/ EAS930A \$3,195.00
 Radio Pack 2 ... EAS911R6 w/ EAS930A \$3,395.00
 EAS911R6 Same as 911R w/6 balanced audio inputs \$2,395.00
 Opt03 4-port COM expander for PC interface, RBDS and electronic sign driver \$395.00



EAS930A Multi-Module Receiver, AM, FM and 7-channel NOAA, all modules have auto-changeover and alarm \$1,470.00



EAS940A Transmitter/Program Interrupt Unit, four separately controllable balanced audio channels with status indicators, rackmount and XLR connectors \$459.00

EAS941A RS-485 Remote Control/Status Module for EAS911 for connection to EAS911 over single, shielded twisted pair, up to 5,000'. Up to 16 units may be connected in parallel to provide remote operation of EAS911 from multiple studio locations. \$495.00



EAS-943 EAS Telephone Access Unit-for remote password secured encoding by officials of EAS message via touch-tone telephone \$454.00



www.bgsfl.com
www.broadcastdealer.com

RF Related Products • Generators/Modulation Monitors

AVOCET Pro Channel Receiver



The AVOCET Pro Channel Receiver gives television broadcasters the equivalent of a one way 3kHz line, centered at 102.271kHz on the composite audio signal. Using the Pro channel for IFB eliminates the cost, interference, and legal problems associated with cellular phones. It is specifically designed for IFB applications and gives you audio quality comparable to two-way radio with built-in muting and noise filtering. The Pro-Line 102A enables you to receive data as well as voice from the Pro Channel. It's perfect for receiving scripts, messages, remote control telemetry or other information at remote sites. Front panel has headphone jack and speaker with volume control, and rear panel has balanced XLR output with level adjust. DB-25 connector provided for data.

Pro-Line 102A	\$1,595.00
Option 07	Selective cueing and Main-Mix via sub-audible tone (CTCSS) decoder \$100.00
SCE-2	Sub-audible tone encoder \$500.00

AVOCET AV-100 Television Audio Receiver



The AVOCET AV-100 enables the monitoring of television station's audio as part of the FCC's requirements for the EAS program. A choice is given for feeding either SAP or Main channel audio on rear panel XLR connectors. Both signals are balanced, line level outputs. The AV-100 is frequency agile and can be easily tuned to off air channels 2 through 69. The selector is located inside the chassis to protect from accidental changes. Applications other than EAS include: recording programming off-air • recording news promos at radio stations for later rebroadcast • re-broadcasting to cable head ends • re-broadcasting to translators and network relay sites • and general studio monitoring.

AV-100	Television Audio Receiver \$495.00
SAP-16	Consumer SAP receiver with built-in speaker, RCA jack \$160.00

Avocet TV-2 SAP/Pro Channel Receiver



The Avocet TV-2SAP/Pro is a SAP and Pro channel receiver with Turbo Sound on the Pro channel that can improve your signal to noise ratio by up to 25dB. It offers a versatile selection of capabilities for using your station's own audio subcarriers to cut costs and improve efficiency. The SAP channel was designed to carry a second audio channel in addition to regular program audio. SAP is a subcarrier of the audio signal centered at 78.67kHz, and has a deviation of 10kHz. The TV-2's Pro receiver is easily made part of your IFB system. The Pro channel can carry data such as scripts, messages, remote control telemetry or other information to remote sites. The Pro channel was designed to give television broadcasters the equivalent of a one way 3kHz line. The Prochannel is centered at 102.271kHz of the composite audio signal, and has a deviation of 3kHz. The receiver provides balanced XLR outputs, a front panel speaker and headphone jack for monitoring.

TV-2SAP/Pro	SAP & Pro channel receiver, includes Turbo Sound/Pro Channel \$2,195.00
TV-2SAP	SAP channel receiver only with dbx decoding \$1,695.00
TV-2Pro	Pro channel receiver with Turbo Sound \$1,695.00

Belar TVM-101 Modulation Monitor



The Belar TVM-101 precision wide-band aural monitor is designed to measure the total modulation characteristics of mono and multi-channel television transmitters. It conforms with EIA/BTSC standards. At proof time it

can be used as a low-noise, low-distortion main channel demodulator for driving audio monitor amplifiers and distortion analyzers. Wide band composite outputs are provided for Stereo, SAP, PRO and SCA monitors. The TVM-100 adds a quasi-parallel detection mode and a digital front panel voltmeter for direct reading of deviation in kHz.

TVM-101	Specify channel or frequency \$3,750.00
TVM-100	Specify channel or frequency \$4,750.00
TVM-101E	TV Aural Mod. Mon., PAL system, specify visual/aural freq. \$4,500.00
TVM-102	TV Aural Modulation Monitor, Dual Sound Carriers
	Specify visual & both aural freq, will monitor 1 aural at a time \$5,500.00
Option 01	SAP & PRO Injection board for TVM-100 \$550.00
Option 03	Peak Weighting module, 5 time constants plus FCC mode for TVM-100 & 101 \$395.00
MP-11	Remote meter panel for TVM-100 or TVM-101 \$275.00

Belar TVM-230 Digital BTSC TV Stereo Monitor/Analyzer



The Belar TVM-230 is a DSP-based, microprocessor controlled Digital BTSC TV Stereo Monitor/Analyzer. The TVM-230 digitizes the composite baseband signal and decodes the stereo multiplex portion using digital signal processing techniques. Unlike an analog design, a DSP-based design is immune to variations due to temperature or the aging and tolerance of components. By employing linear phase FIR filters, the TVM-230 eliminates phase distortion in the recovered audio. This permits unprecedented accuracy in measuring modulation peaks on the L, R, L+R and L-R signals.

TVM-230	TV Digital St. Mod. Mon., BTSC System \$5,850.00
TVM-250	TV SAP/PRO Monitor \$3,900.00
TVM-2A	TV digital frequency monitor, VHF (measures aural, visual and intercarrier) \$3,550.00
TVM-3A	TV digital frequency monitor, UHF (measures aural, visual and intercarrier) \$4,150.00
RFA-3	TV RF amplifier, specify frequency (for use with TVM-2A & TVM-3A for off air use or to combined feed) ... \$1,250.00
Option01	SAP/PRO Injection Board for TVM230 \$550.00
Option 03	PWM-1 Peak Weighting Module for TVM230/250 \$395.00
MP230	Analog Meter Panel for TVM-230 \$450.00
MP250	Analog Remote Meter Panel for TVM-250 \$400.00



Broadcasters General Store

2840 S. E. 52nd Street
Ocala, Florida 34480-7500

1-352-622-7700

RF Related Products • Generators/Modulation Monitors

Belar FM Radio Monitor Equipment



- FMM-2 FM Precision Modulation Monitor (specify frequency) \$1,790.00
- FMS-2 FM Precision Stereo Modulation Monitor \$2,050.00
- FMM-4A FM Digital Frequency Monitor \$1,590.00
- Option 01 Eight Alarm Relay card for FMM-4A \$250.00
- SCM-2 SCA Modulation Monitor, 67kHz Std. (3 more available) ... \$2,050.00
 Each additional standard SCA frequency \$75.00
 Each additional special SCA frequency \$100.00
- RDS-1 RDS/RBDS Monitor \$2,200.00
- RFA-1A FM RF Amplifier (specify frequency) \$850.00



- RFA-4 Frequency Agile FM RF Amplifier (10 Memory Presets) \$1,190.00
- Option 01 Module for interfacing RFA-4 with the WIZARD \$100.00



- FMMA-1 The WIZARD, Precision Digital FM Modulation Analyzer \$3,300.00
- Option 01 Precision FM demodulator with calibrator (IF Input) \$590.00
- Option 02 Down converter/sync. AM noise detector (specify frequency) \$495.00
- DC-4 Frequency Agile Down Converter for transmitter operation \$1,500.00



- FMSA-1 FM Digital Stereo Modulation Monitor and Analyzer . \$3,900.00
- FMRR-4 Freq. Agile FM Rebroadcast Rec. w/calibrator & carrier fail safe \$1,890.00
- FMRR-1A FM Rebroadcast Receiver w/ calibrator & carrier-fail safe (specify freq.) \$1,590.00



- DSD-1 Digital Stereo Decoder (FM Composite input, provides 48kHz AES/EBU St. output) \$1,900.00
- DSD-1A Digital St. Decoder w/analog outputs (adds bal. analog L,R,L+R & L-R outputs) \$2,500.00

FM Accessories

- MP-8 Combined remote meter panel for FMM-2 and FMS-2 \$425.00
- MP-9 Remote meter panel for FMM-2 \$275.00
- MP-10 Remote meter panel for SCM-2 \$275.00
- PWM-1 Peak weighting module (5 time constants plus FCC mode) \$395.00

Belar RDS-1 RDS/RBDS Monitor & Decoder



The Belar RDS-1 is a fully-featured RDS/RBDS monitor and decoder. The RDS-1 is essential to monitor critical RDS parameters, such as RDS injection and the phase relationship between the RDS subcarrier and the stereo pilot. It has an RS-232 interface and a Wizard interface built-in.

- RDS-1 \$2,200.00

Belar AM Monitor Equipment



- AMM-2C AM Modulation Monitor \$1,590.00
- AMM-3 AM Modulation Monitor (with Automatic Carrier Leveling) \$1,790.00
- AMMA-1 The WIZARD, precision digital modulation monitor/analyzer \$3,300.00
- AMM-4 AM Digital Frequency Monitor \$1,390.00
- Option 01 Three alarm relay card for AMM-4 \$250.00
- RFA-2 AM RF Amplifier (specify frequency) \$790.00

AM Accessories

- MP-6C Remote meter panel for AMM-2A and AMM-2B \$350.00
- MP-7A Remote meter panel for AMM-3 \$350.00
- MP-14 Remote meter panel for AMMA-1 \$350.00
- LP-1 Shielded loop antenna (passive) \$295.00
- LP-1A Shielded loop antenna with preamplifier and line driver \$375.00
- Option 01 External power supply for LP-1A (not needed with RFA-2) \$85.00

CRL SCA-300B

Digitally Synthesized Subcarrier Generator



The CRL SCA-300B is a digitally synthesized subcarrier generator with integral two-band audio limiter. The SCA-300B subcarrier frequency is user-selectable from 40 to 110kHz. Either voice or data can be transmitted; two direct data input ports are provided. Also, the SCA-300B can be fully remote-controlled.

- SCA-300B \$2,050.00

CRL SG-800A Digital Stereo Generator



The CRL SG-800A FM stereo generator is a drift-free, lab grade stereo generator due to its digitally synthesized balanced modulator design. Stereo separation exceeds 55dB. SCA inputs are provided for composite loop-through. The SC-800A's linear low-Z output drives up to 1,000 feet of RG-58 cable.

- SG-800A Digital Stereo Generator \$2,590.00
- w/o 15 kHz low filter \$1,800.00

Delta SM-1 Splatter Monitor

The Delta SM-1 Splatter Monitor measures the level of splatter or any other spurious emissions which fall between 11kHz and 100kHz away from both sides of the carrier. While normally installed in an equipment rack and fed with the transmitter or common point RF sample, it also operates in the field from a twelve volt DC source fed by an optional active antenna. This portability is very useful for investigating interference complaints.



- SM-1 AM Splatter monitor \$4,490.00
- AWA-1 Active Whip Antenna \$780.00
- PH-1 Peak Hold Option \$555.00
- SA-1 Spectrum Analyzer Filter \$555.00

RF Related Products • Generators/Modulation Monitors

Inovonics 701 RDS/RBDS



Inovonics 701 RDS/RBDS is a stand-alone unit that does not require a dedicated host computer. Messages are held in non-volatile memory. It locks to 19kHz pilot from MPX sample - no special "sync" port is required. Menu driven programming software is supplied.

701 \$390.00

Inovonics 710 RBDS Encoder/Subcarrier Generator



The Inovonics 710 'PROM'-based RBDS encoder/sub-

carrier generator is an easy-to-use encoder which requires no programming. As many as 15 separate "frames", or complete sets of IDs, flags and messages are held in the 710's non-volatile memory. With the touch of a button or by remote command, you select the data frame(s) to be broadcast. Later should you want to implement other options, such as paging, GPS, contests, etc., connect the 710 to any IBM-compatible PC to enter the "dynamic" mode. "Static" operation remains a default should the on-line link be lost.

710 \$1,050.00

Inovonics 520 AM Modulation Monitor



Inovonics 520 AM Modulation Monitor includes a tunable

preselector for accurate off-air measurements. It features bargraph peak metering, fixed and adjustable flashers, program and carrier loss alarms, and an RS-232 port for optional computer modulation analysis.

520 AM Modulation Monitor \$1,750.00

AFA Optional, weatherproof active ferrite antenna \$300.00

Inovonics 530

FM Receiver & FM Broadcast Carrier Modulation



Inovonics' 530 combines a wideband FM receiver with a linear demodulation and metering

circuitry for precise measurement of FM broadcast carrier modulation. High-resolution displays give reliable readings of total modulation, demodulated program audio, and pilot/subcarrier injection levels. The incoming RF signal and multipath distortion components are also monitored to ensure that indicated measurements are truly valid. The 530 accepts both an antenna feed and a directly-coupled RF sample. Included are: eight station presets, balanced program audio outputs, a composite baseband I/O, and connections for remote readout of all panel displays, the peak flasher, plus dead air and carrier loss alarms and headphone jack.

530 \$2,500.00

Inovonics 540 FM Subcarrier Monitor/Demod



Inovonics' new 540 has a dual conversion design with

precise, crystal-controlled digital tuning and works with any FM Mod-Monitor having a Composite (MPX) output. It measures injection level of SCA, RDS and high-speed data subcarriers. It demodulates audio SCAs and accurately displays subcarrier deviation.

540 FM Subcarrier Monitor/Demod \$1,150.00

RDS Decode Option \$165.00

Marti SCG-10 & SCD-10

Subcarrier Generator & Demodulator

The Marti SCG-10 sub-



carrier generator is designed to operate in SCA service with an FM transmitter or, with an SCD-10 subcarrier demodulator to form a subcarrier link on a microwave (STL) system. It has selectable pre and de-emphasis of 0, 75, 150 or 225 microseconds and low pass audio filters of 3, 5, or 7kHz.

SCG-10 Subcarrier Generator \$798.00

SCD-10 Subcarrier Demodulator \$798.00

Modulation Sciences ModMinder FMMM-2

Modulation Monitor



Modulation Sciences ModMinder's™ user-selectable response allows you to adjust processing for maximum legal modulation. The optional DeMod board gives you MSI's Modulation Assurance with accuracy of $\pm 1\%$. ModMinder is compatible with analog remote control systems and operates by modem from any PC. The remote software package analyzes modulation to give you complete information about any FM signals density, loudness and competitive characteristics.

FMMM-2 ModMinder with DeMod \$3,090.00

Modulation Sciences Sidekick SCA-186

SCA & Data Sidekick



Modulation Sciences Sidekick with audio processing especially designed for SCA, and Data. Sidekick has every-

thing you need including loop-through composite connections for easy installation, remote control provisions, crystal-locked synthesizer tuning, a super-accurate peak/hold SCA deviation meter, a noise generator and synchronous AM meter so you can tune the transmitter for minimum crosstalk. Data Sidekick's direct FM modulation technique is specifically designed for maximum reliability and throughput over the SCA subcarrier.

SCA-186 Specify frequency \$3,835.00

DSCA-188 Data Sidekick, specify frequency \$5,040.00

DSCA-1 Data Subcarrier (SCA) Receiver, Board Only \$265.00

DSCA-2 Data Subcarrier (SCA) Receiver w/Enclosure \$330.00

1-352-622-7700

Visit Us @ www.bgsfl.com

World Radio History

New standards in STL RPU and Transmission



MPX5 & MaXIM

With impeccable reliability and a sound that remains clean whether set to loud and punchy or open and transparent, MPX5 and MaXIM are the combination of choice for stations worldwide wanting the very best analogue processing equipment. MaXIM provides precise peak level control using split-band limiting and intelligent program-dependant control to utilize every last drop of available modulation without degrading already processed signals. MPX5 is a very high specification stereo generator with DSP filtering and advanced overshoot compensation allowing increased modulation allied to superb sonic performance.

Full MPX5 & MaXIM specifications on page 174

FM10 & FM30

For a complete low-power broadcast solution or as exciters for higher power systems, FM10 and FM30 share sbs' renowned ultra-linear modulator and a wideband design that allows direct frequency setting - no tuning required. They are engineered for many years of trouble-free operation at full rated power (10W for FM10, 30W for FM30), and are fully protected against faults in the antenna system. Comprehensive input options include composite / multiplex, mono, stereo - with an integrated stereo generator/processor section for true "plug and play" operation - and AES/EBU digital.

Full FM10 & FM30 specifications on page 173



TX400 & RX400

The complete package for STLs and remote broadcasting. Available on any permitted frequency from 48 to 1300 MHz, and with a wide range of options - mono or internal stereo generator, limiters, AES/EBU, wide or narrow band FM - a TX400 system will suit every application. The matching RX400 completes the link, delivering high-quality balanced audio or composite / multiplex signals, and can also be used alone for demanding off-air monitoring or as the receiver for a translator system.

Full TX400 & RX400 specifications on page 167



PA125 & PA250

Because the Power Amplifiers are one of the most important links in the transmission chain, the PA125 (125W) and PA250 (250W) FM power amplifiers have been engineered for ultimate reliability. Load and internal operating conditions are continuously monitored, protecting the transmitter, keeping your station on-air and reporting potential problems via the telemetry interface. The innovative "fresh-air-tunnel" design eliminates short-lived air filters, whilst the generously rated power supply combines high efficiency with rejection of mains-borne spikes and surges.

Full PA125 & PA250 specifications on page 173



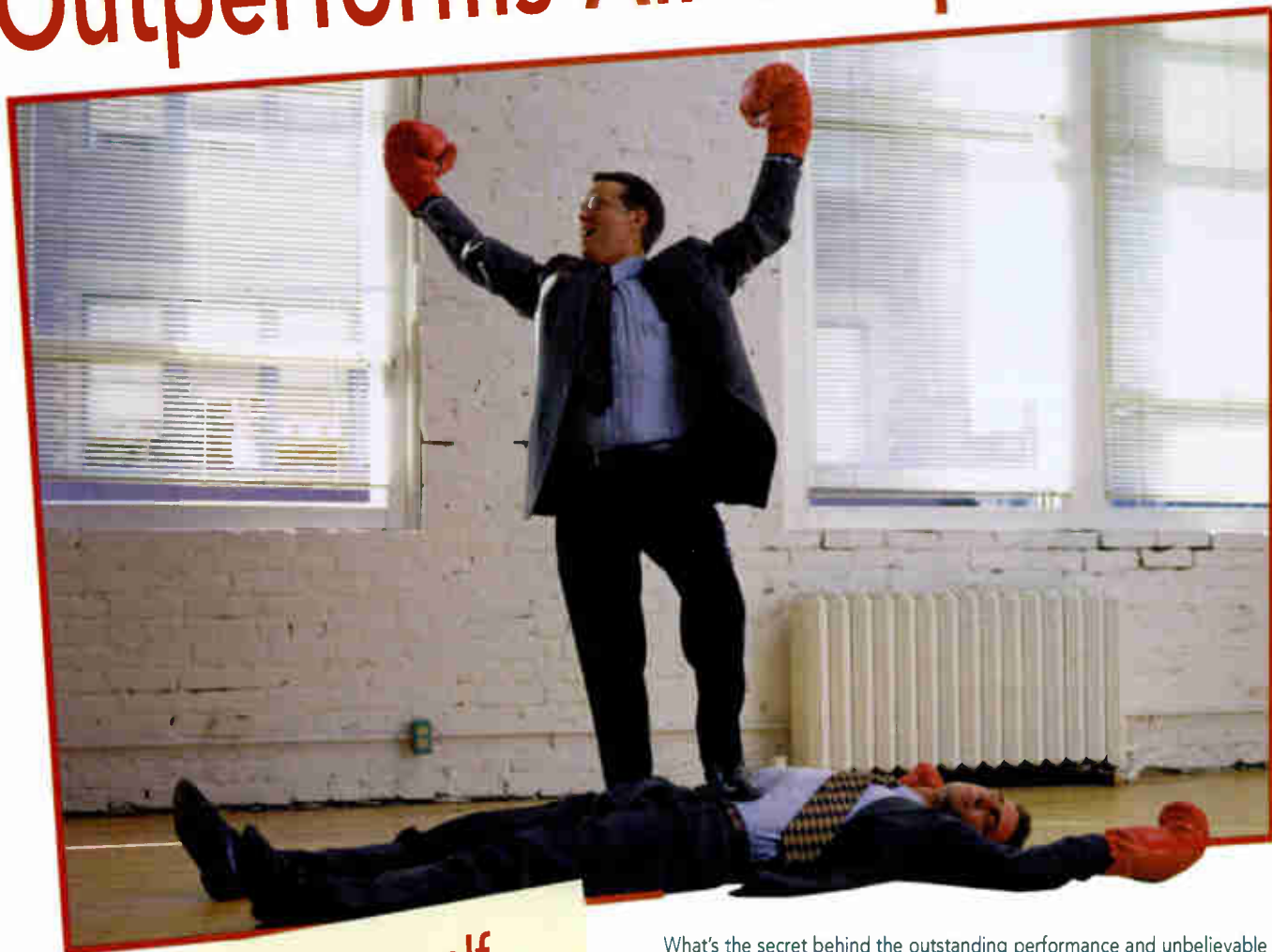
Guardian2 & ACU3

Intelligent management of the whole transmission chain for total peace of mind. Guardian2 dynamically monitors both audio and composite / multiplex signals, switching seamlessly in the event of a fault to the reserve STL, secondary processor or, as last resort, an on-site source. ACU3 responds to problems in a dual redundant transmitter system, selecting between main and reserve chains (up to 100 W internally or higher power with an external relay). And with a full telemetry / control interface fitted to both units, you always remain in the picture and in control.

Full Guardian specifications on page 174



NTSC Video Demodulator Outperforms All Competition



Compare for Yourself

- ✓ Guaranteed (not typical) specifications
- ✓ Performance comparable to the legendary 1450
- ✓ Full Three Year Warranty
- ✓ All for less than \$6000

What's the secret behind the outstanding performance and unbelievable price of the **msi 320**? Advanced technology. We use modern high-performance VLSI integrated circuits, some of which didn't even exist as recently as 3 years ago, instead of discrete components. We developed a proprietary SAW filter that outperforms anything else available.

But the **msi 320** not only outperforms its higher priced competitors, its stable reliable design is also far more user friendly. For example, it has only 8 internal adjustments, compared to the more that 300 tweaks that many competitors require. That's why recalibration costs only \$250.

But don't just take our word for it. Contact us to arrange a **FREE** demonstration. We'll show you how you can get performance that's head and shoulders above the rest, without paying through the nose.

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msi modulation
sciences
inc.

RF Related Products • Generators/Modulation Monitors

Modulation Sciences PRO PCG-II

Sidekick™ Pro Channel Audio Generator



Modulation Sciences PRO Sidekick™ Audio Generator produces PRO channel on your TV aural signal. A complete, self-contained PRO Channel Generator. Operates on mono or stereo TV aural transmitters. Use with PRO-II PROceiver to place your IFB or cueing signals within reach of your remote vehicles without the use of cellular phones.

PCG-II PRO Sidekick™ Pro Channel Audio Generator \$3,990.00

Modulation Sciences PRO-II

PRO Channel Receiver w/Antenna Diversity



Modulation Sciences PROceiver™ II will greatly reduce or eliminate your dependence on cellular telephone connections for cueing and IFB information in ENG or remote activities. It contains a quartz-synthesized stand alone FM tuner which is completely independent of the visual carrier. A SAW filter protects the signal from video interference. On board noise reduction greatly enhances signal-to-noise performance. The Antenna Diversity option allows the PROceiver to operate reliably under severe multipath conditions. The optional 12/28 VDC kit lets you use PROceiver anywhere.

PRO-II PRO Channel Receiver w/Antenna Diversity \$1,895.00
 PRO-AC All-Call option for PRO-II \$385.00
 PRO-II28 28 Volt PS instead of 12 Volt \$300.00

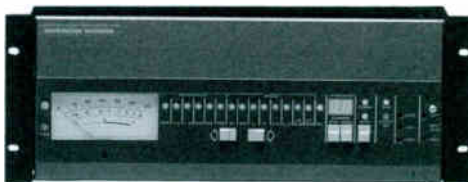
Modulation Sciences SRD-1 Stereo Reference Decoder

Modulation Sciences TV Stereo Reference Decoder is for critical measurements. Certified compliance to BTSC standards, compatible with all stereo generators and operates with the Tektronix 1450-1 demodulator. Precision and balanced line outputs provided.



SRD-1 Stereo reference decoder \$5,250.00

Modulation Sciences STV-784 TV Stereo Generator



The Modulation Sciences STV-784 TSG encoder and baseband stereo generator for NTSC delivers better than 40dB BTSC Mode Stereo Separation. It complies with the BTSC Standard: FCC's OET-60R Report. Includes operational monitoring and integral Television Audio Processor.

STV-784WB ... TV Stereo Generator w/Balanced composite Output \$13,100.00
 STV-784 NA .. TV Stereo Generator less audio Processor Module \$9,875.00
 STV-784 AO .. Audio Processor Module for STV-784 NA \$3,125.00
 CLD-2503 B .. Balanced Composite Line Receiver for STV-784 WB \$900.00

Modulation Sciences TSCA-189

TV Sidekick SAP Generator



Modulation Sciences TSCA-189 TV Sidekick@ SAP Generator contains audio processing and BTSC encoder. Unconditionally locked to horizontal sync via composite video. Stereo generator not required.

TSCA-189 \$5,275.00

Modulation Sciences TV ModMinder

Modulation Status Panel



Modulation Sciences TV ModMinder Modulation Status Panel works with any wideband precision

demodulator (such as the Tektronix 1450-1). Gives continuous display of key MTS parameters (total modulation percentage with peak flasher) • status and injection levels of subcarriers • autoranging • and is far more accurate and less expensive than traditional modulation monitors.

TVMM-1 TV ModMinder, Modulation Status Panel \$3,295.00

QEI 691 FM

Modulation Monitor/ Test Set

The QEI 691 is a complete proof-of-performance instrument for FM mono, stereo, and SCA measurements. It has a one year manufacturer's warranty on all parts and labor.



691 FM Modulation Monitor / Test Set \$6,050.00
 691/01 Same as above with SCA (specify frequency) \$7,095.00
 691/02 Same as above with dual SCA (specify frequency) \$7,350.00

Radio Design Labs ACM-2 AM Noise Monitor



Radio Design Labs ACM-2 is an AM noise monitor. RDL's ACM technology is the only time-proven, industry accepted method of controlling Synchronous AM Noise (the elusive varying: bandwidth-limiting gremlin that effects listeners receivers). Hundreds of top performing FM's in every major U.S. market turn to ACM technology for Maximum Bandwidth Performance! Every transmitter, new or old, can easily produce poor bandwidth, or can be made to perform as well as any signal in the market. Every FM station needs ACM technology to provide the accurate AM measurement and continuous monitoring needed for optimum transmitter tuning and performance.

ACM-2 AM Noise Monitor \$885.00

RF Related Products • Generators/Modulation Monitors

TFT 844A FM Baseband/Stereo Mod Monitor

The TFT 844A is an FM stereo mod monitor that has a frequency agile RF pre-selector, baseband demodulator and stereo demodulator. The 844A can be used for off-air monitoring or direct transmitter proof measurements. This monitor can be used for complete measurements of total, right and left channel modulation, channel separation, main and sub channel crosstalk, L+R, L-R, 38kHz carrier suppression and pilot injection level. All measurements can be made with front panel pushbuttons and meter, and a scope can be fed from BNC connectors. Front panel modulation calibration is possible within ±2%. The preselector has two digitally tunable RF preselectors to let you switch between FM stations. The 844A has a one year manufacturers warranty.



Model 844A ... FM Baseband/Stereo Mod Monitor \$5,150.00
 Option 02 Spare parts kit \$575.00
 Model 804 Remote meter and flasher \$610.00
 Option 03 57kHz RDS injection level \$330.00

TFT 845 FM SCA Monitor



The TFT 845 is an FM SCA monitor with up to three front panel select-

able subcarrier frequencies. The 845 can be used to make SCA proof measurements and with one or two optional service channel boards it can provide uninterrupted SCA program or data output(s) separate from the monitor portion. It includes a loss of modulation alarm and a built in modulation calibrator. The 845 has a one year manufacturers warranty.

- Model 845 3 Ch SCA monitor, 67kHz supplied std \$2,735.00
- Option 01 RF module preselector (specify frequency) \$910.00
- Option 02 Additional SCA freq (41kHz) components \$145.00
- Option 03 Additional SCA freq (92kHz) components \$145.00
- Option 04 Spare parts kit \$295.00
- Option 05 Service Ch module max 2 (specify frequency) \$315.00
- Model 805 Remote meter and flasher \$610.00

RF Related Products • Receivers/Tuners

CircuitWerkes TeleRadio

DTMF Remote Controlled Tuner w/Telephone Coupler



If you have CircuitWerkes TeleRadio at your stations, you can listen to every radio station in each of your markets in real-time. TeleRadio is a DTMF remote controlled tuner combined with a telephone

coupler. When it answers, the internal radio begins playing down the phone line to you. You can control the radio by using the buttons on your phone. It features: ten random memory presets; remote controlled scanning, tuning, AM/FM band change, & memory set; FCC type approved for phone connection; automatically resets to first memory each time it answers a call; auto-answer/disconnect; and auxiliary audio input allows the coupler section to temporarily be used as an audio patch for remote talkback.

- TeleRadio \$465.00

Dayton Industrial AF200

Frequency Agile SCA Receiver

The Dayton Industrial AF200 Receiver is phase lock loop controlled (88 to 108 MHz), with a 67 or 92kHz (selectable) SCA demodulator. Power is provided by an external 115VAC to 12Vdc converter. Features include: frequency of operation set by switch • SCA/Main selector switch • audio volume control • external antenna F connector • RCA line out • 1W audio power output • and line out volume control.



- AF200 SCA Receiver, Frequency Agile \$199.95
- AF200-FM FM Main Only (no SCA) Receiver, tunable \$179.95

Options include: Composite output, RCA jack \$20.00 • Data detector circuit \$12.00 • Field strength output, RCA jack \$12.00 • 19" front panel rackmount, black \$24.00 • Simultaneous (2) SCA detectors \$40.00 • External 67/92kHz toggle switch \$5.75 • External Main-SCA toggle switch \$5.75 • Wide bandwidth \$12.00.

Dayton Industrial AF210

FM, FM/SCA, FM/RDS Monitor/Receiver



The Dayton Industrial AF210 is a precision FM broadcast receiver with stereo, SCA and RDS demodulators.

The AF210 is a single channel with PLL (synthesized) tuning. Features include:

wide and narrow band AGC to prevent overload • +6dB balanced and unbalanced FM audio (stereo) output • +6dB composite audio output • +6dB SCA output • selectable 50, 75 microseconds, or no de-emphasis • selectable 25, 50 or 100kHz frequency tuning steps • selectable 150, 225 microseconds, or no SCA de-emphasis • main or SCA channel 350mW amp for monitor • FM stereo with 40dB (or better) separation • FM signal strength blend and high cut if desired • adjustable level carrier detection relay • RDS demodulator with carrier detect, clock and date • LED indicators for signal strength, power, main carrier • stereo, SCA carrier and RDS • switchable 67 or 92kHz SCA demodulator • DC coupled SCA FSK data output with adjust symmetry • adjustable soft FM mute • and adjustable SCA muting. 1U & 10lbs.

- AF210 FM, FM/SCA, FM/RDS Monitor/Receiver \$409.95

Dayton Industrial AF272

Portable FM/SCA Receiver & Field Strength Meter

The Dayton Industrial AF272 receiver is a sensitive FM receiver that covers the 88 to 108MHz standard band and demodulates the main channel audio as well as the standard 67 and 92kHz subcarrier audio. Meters are provided that enable the AF272 to be used as a portable field strength meter. There are two tuning methods: fixed tune frequency (PLL controlled) and a manual tune control for the entire band. There are switch selectors for the tuning method used, the audio selection, meter function and attenuator controls.



- AF272 Portable FM/SCA Receiver and Field Strength Meter \$479.95

RF Related Products • Receivers/Tuners

Dayton Industrial AF565 FM/SCA Receiver,

The Dayton Industrial AF565 is a single channel, crystal controlled receiver that operates in the standard FM band (88 to 108MHz), and demodulates the normal main channel audio (mono) as well as the special "SCA" audio associated with such services as the Reading Services for the Blind,



Ethnic services, background music and other "SCA" applications. The receiver is a sophisticated design with an F.E.T. input amplifier for increased sensitivity and low noise operation. The main audio receiver is a superheterodyne design and the "SCA" channel contains a second complete receiver for demodulating the "SCA" signals. The Main or SCA audio is selected by a front panel switch (AF714 side switch). The audio signals are applied to an internal amplifier and speaker. AF565 power is supplied by an external 115VAC to 12Vdc converter (provided) and an internal telescoping antenna is provided as well as connections for an external antenna if desired. The AF714 has an earphone provided as well as an internal telescoping antenna. In the AF714, the earphone wire acts as the antenna and there is no internal speaker. Power is supplied by an internal battery supply (2 AA) and an optional AC to DC converter is available.

- AF565 FM/SCA Receiver, Crystal Controlled, Table Style \$149.95
- OptT External 67/92kHz slide switch \$19.00
- AF714 FM/SCA Receiver, Handheld, single ch., crystal controlled \$169.95

Dayton Industrial AF610

NOAA Weather Radio



The Dayton Industrial AF610 NOAA weather radio broadcasts in the VHF public service bands. The receiver is PLL (phase lock loop) controlled. The frequency of operation is selected using an internal 3 position DIP switch. A continuous receiver line audio output is provided. A second output (SPKR) is also provided. The SPKR output audio is controlled automatically by a tone detector circuit that monitors the receiver audio for the presence of a 1050Hz and/or 1650Hz tone signal. There is also a test switch and a reset switch for activating the SPKR audio and alarm light manually. Power is provided by an external 115VAC to 12Vdc converter. This receiver is designed to meet professional EAS equipment input requirements.

- AF610 NOAA Weather Radio \$209.95
- OptB Balanced line audio output \$19.00
- OptMF 19" front panel rackmount, 1U \$30.00
- OptR Relay output for alarm circuit \$25.00

Denon TU-1500RDP

AM/FM/FM Stereo Tuner w/RDS Radio Data System



The Denon TU-1500RDP AM/FM/FM stereo tuner with RDS Radio Data System display

- features: PS, PTY, CT, RT, TP functions • manual character input (8 character) • 40 station memory • auto preset memory • low impedance output 100Ωs • and RF attenuator. 2U
- TU-1500RDP Professional Tuner \$399.00
- RM-356 Rackmount option Included
- RC-158 IR Remote Control \$26.00

Denon DRA-375RDP

AM/FM/FM Stereo Receiver w/RDS Radio Data System

The new Denon DRA-375RDP AM/FM/FM stereo receiver • RDS Radio Data system • 60 watts per channel into 8Ω • discrete power amplifier output section • auto preset FM memory • video switching function • video selector • banana plug compatible speaker terminals • IR remote control sensor • variable loudness control • remote control included • and rack mount included.



- DRA-375RDP Professional Stereo Tuner \$349.00

Denon DRA-685P

AM/FM/FM Stereo Receiver

The new Denon DRA-685P AM/FM/FM Stereo Receiver • 100 + 100 watts RMS, 20Hz-20kHz >.05% THD • Record output selector • Pre-out and main-in jacks • Banana plug compatible speaker terminals • Dual Zone Multi-Room, with pre-outs for second zone and second dedicated (supplied) IR remote control • Video/audio signal mixing (simulcast) • Auto preset FM memory • Loudness function • Tone defeat • IR input for external IR repeater • A/B speaker switching • Composite video switching for A/V sources • 40 station random AM/FM tuner memory • Motorized analog volume control.

- DRA-685P Professional Stereo Receiver \$549.00

Magnum Dynalab FT-101A Pro Stereo Tuner



The Magnum Dynalab FT-101A offers such 'work-

horse' functions as a wide band composite output for modulation monitoring and adjustable alarm outputs for both carrier and modulation. Also standard is separate, demodulated outputs for 67 and 92kHz SCA bands. Main channel audio output is 600Ω balanced and the SCA audio output is 600Ω unbalanced. All output levels are adjustable. The Pro 101 provides a 'benchmark' sampling of off-air signal quality. Being analog and fully tunable across the FM band, it provides infinite frequency adjustment in order to deal with adverse reception environments.

- FT-101P-B19 \$1,600.00
- FT-PSLU Narrow band mode [Additional Selectivity to 30 dB (adjacent)] \$100.00

Rolls RS78b & RS79

Digital PLL Synthesized AM/FM Tuners

The Rolls RS78b and RS79 are digital PLL synthesized AM/FM tuners. They have large LCD displays that can be read in daylight and show the frequency and preset. They will auto search up and down as well as store up to 16 FM and 8 AM presets and retains settings for up to 4 days with power off. The RS79 comes with an additional headphone out, signal strength meter, balanced XLR outputs, & 1 year memory. 1U



- RS-78b Digital Programmable AM/FM tuner \$247.00
- RS-79 \$298.00

RF Related Products • Cavity Filters



Bandpass Cavities							
Freq./Mhz	Dia.	Single		Dual w/mtg. brkts.		Triple w/mtg. brkts.	
66-88	5"OD	WP-410-1	\$270.00	WP-410-2	\$560.00	WP-410-3	\$850.00
144-174	5"OD	WP-430-1	\$170.00	WP-430-2	\$380.00	WP-430-3	\$580.00
440-512	5"OD	WP-470-1	\$140.00	WP-470-2	\$320.00	WP-470-3	\$490.00
806-960	4"OD	WP-494-1	\$160.00	WP-494-2	\$380.00	WP-494-3	\$565.00
806-960	7"OD	WP-497-1	\$220.00	WP-497-2	\$520.00	N/A	N/A

Duplexers					
Freq./Mhz	Mln. Freq. Spacing	# Cavities	Type	Model	Price
440-512	3.0Mhz	4	BpBr Circuit duplexer	WP-678	\$790.00
806-960	45.0Mhz	2	BpBr Circuit duplexer	WP-686	\$425.00
806-960	25.0Mhz	4	BpBr Circuit duplexer	WP-687	\$790.00
806-960	2.7Mhz	4	BpBr Circuit duplexer	WP-688	\$790.00



Wacom

Wacom makes Cavity Filters, Duplexers, Isolators & Loads, Rx Equipment, Tx Combiners and more. We have chosen some of the more often requested Bandpass Cavities and Duplexers to highlight in our catalog.

RF Related Products • RF Amplifiers

TPL



The TPL RXR series is a family of reliable, cost effective continuous duty amplifiers. This series will accept any TPL amplifier from low band through 960 MHz, with output levels up to 120 watts. If conditions warrant, a cooling fan will be added. On 800-960 MHz models with output levels of 80 watts or higher, the cooling fan is standard. The series has four configurations. The "F" designation in the model number indicates a cooling fan, and the "PS" designation indicates a self contained switching power supply. These amplifiers operate on 13.8 Vdc unless otherwise specified.



Model	Frequency (MHz)	Power In (Watts)	Nominal Power Out (Watts)	Current Drain (amps)	Price
PA6-1BE	400-512	8-15	70-100	18	\$747.00
PA6-1FE	400-512	25-40	70-100	12	\$603.00
PA6-1BE-RXR	400-512	8-15	70-100	16	\$1,047.00
PA6-1FE-RXR	400-512	15-40	50-100	15	\$903.00

Power Supplies

Model	Description	Price
PS12-2	Utility Power Supply-13.6VDC regulated, 20 amps ICS or 16 amps	\$228.00
PS12-2A	Same as above except for 220VAC input	\$252.00
PS12-3	Rack Mounted Power Supply-13.6VDC regulated, 25 amps continuous duty.	\$409.00
PS12-3A	Same as above except for 220VAC input	\$434.00
PS12-4	Rack Mount-13.6VDC regulated, 37 amps continuous duty	\$458.00
PS12-4A	Same as above except for 220VAC input	\$497.00

TPL Base station/Repeater amplifiers

Rated for Continuous Duty

VHF High Band (136 to 175MHz)	Power In	Nominal Power Out	Price
PA3-1FD-RXRPS (w/power supply)	15-30W	70-90W	\$1,331.00
PA3-1FE-RXRPS (w/power supply)	15-40W	80-120W	\$1,395.00

800MHz (806 to 960MHz)

PA8-1DD-RXR-PS (w/power supply)	5-15W	70-90W	\$2,273.00
PA8-1FD-RXR-PS (w/power supply)	20-40W	70-90W	\$2,023.00

See FM RF Amps on Page 149 !



Broadcasters General Store

1-352-622-7700



Marti RPT-30/15/2 Transmitters & Receivers

RPT-2

These Marti systems enable non-technical personnel to produce professional sounding live remotes. The Marti remote transmitters are for continuous duty • are available in one or two frequencies • have sub-audible encoders, for switching repeaters • and will work on AC or DC power. The RPT-30 has four balanced mic inputs, with one switchable to a line input. The RPT 15 and RPT 2 have two audio inputs, mic and high level unbalanced. The hand held RPT-2 mic input is push to talk. The CR-10 and AR-10 receivers have single or dual frequency capability and sub-audible tone decoding. Marti transmitters have a one year warranty.



- RPT2-B Hand held 2W xmtr w/o internal battery, 1 frequency w/ internal battery 1 frequency \$1,270.00
- RPT2-2B as above w/internal battery dual frequency \$1,295.00

- RPT-15 Portable/mobile 15W transmitter 1 frequency \$1,470.00
- RPT-15-2 as above w/dual frequency \$1,495.00

RPT-15



- RPT-30 RPU 30W transmitter, single frequency \$1,910.00
- RPT-30-2 ... as above w/dual frequency \$1,935.00

RPT-30



CR-10



- CR-10-D Receiver Single frequency, w/decoder \$1,460.00
- CR-10-2-D as above w/dual frequency \$1,685.00

AR-10



- AR-10 Mobile relay receiver single frequency \$1,460.00
- AR-10-2 as above, dual frequency \$1,485.00

Various Marti packages, accessories and antennas are available. Please call Broadcasters General Store for more information.

Marti SR-10 RPU Receiver

The Marti SR-10 is a frequency agile base station receiver with superior selectivity. Features include: frequency agile over 450-455Mhz Band • Front panel selection of channels • Sub-audible tone decoder • Automatic noise reduction • Built-in monitor speaker with front panel headphone jack and level control • LCD display (backlighted) to indicate exact channel frequency • and six programmable priority channels can be scanned or selected.



- SR-10 RPU rackmount Receiver \$2,500.00

Marti SRPT-40E & SR-10E

VHF frequency Agile RPU System

Marti SRPT-40E and SR-10E VHF frequency agile RPU system was recently FCC approved for use in the United States. The SRPT-40E/SR-10E offers 16 user programmable channels shown on an LCD display, which can be programmed within a 2MHz spread of the center frequency with frequency step separation of 12.5kHz. The receiver is able to be remotely switched between 16 preset channels, making it ideal for relay and repeater operations. Features include: frequency ranges 140-200, 200-300, 300-400Mhz • maximum power output 40 watts • RF connector SO-239 (UHF female) • double-balanced mixers • operated on either 110/220Vac (all units are 12Vdc ready through a 9 pin connector on the back).



- SRPT-40E Transmitter \$2,795.00
- SR-10E Receiver \$2,500.00

Marti SRPT-40 RPU Transmitter



The Marti SRPT-40 RPU transmitter has incorporated all the features found in the RPT-15 and RPT-30 transmitters and added the ability to change frequency by means of front panel thumbwheel switches. New switching power supplies produce 30% more power with 30% less weight and run cooler. The SRPT-40 will operate on any 50/60Hz AC voltage between 95 and 250 volts without changing jumpers or switches. It has a compressor/limiter built-in, UG-58 N female RF connector and are compatible with your existing system when not companded.

- SRPT-40 40 Watt \$2,795.00

sbs TX400 Transmitter & RX400 Receiver



The sbs frequency agile TX400 and RX400 series of high performance links are designed to meet the requirements of radio stations needing either fixed link or RPU systems. The TX400 and RX400 series can

be supplied in any of the permitted operating frequencies between 48 MHz and 960 MHz. They are available with RF and composite bandwidths suitable for all applications. Other options include audio input low pass filter/limiters and stereo generator, AES/EBU or composite input alone. Receivers feature helical filters and high level double balanced mixers for high performance even in high RF environments.

Specifications for the TX400: Frequency range: 48-55, 420-520 and 800-960MHz • Output: 25W typical at 50/400MHz, 7W typical at 800-960MHz • Power Supply (AC) 110/230Vac ±10%, 50/60Hz, < 100VA • Power Supply (DC) 24 to 30V, < 100VA • Warranty 5 Years.

Specification for the RX400: Sensitivity <88µV typical for 60dB SN stereo 75µS • Stereo separation >50dB typical • Warranty 5 Years.

- TX400 Composite/Mono Transmitter \$2,345.00
- TX400/S Stereo Transmitter \$2,795.00
- DLM3 Limiter Option for Mono TX400 \$182.00
- RX400 Composite/Mono Receiver \$1,645.00
- IRX400/S Stereo Receiver \$1,895.00

RF Related Products • Satellite

**See Satellite Antennas on
Pages 149 & 150**

AVCOM SCPC-2000E & SCPC-3000E Demodulator & Downconverter



AVCOM's SCPC-2000E receives FM SCPC signals in the 3.7 to 4.2GHz

band. It can tune up to 4 specific crystal controlled audio or data channels from a given transponder with a choice of 1:2 or 1:3 expansion and 0, 25, 50, or 75 micro-second de-emphasis. Available in either wide band or narrow band models with optional circuitry available to allow up to 8 crystals for channel selection. The SCPC-2000E may be used with the SS-1000 slave for simultaneous reception of additional



channels. Other features include selectable low pass 15, 7.5, or 5KHz

audio filters and an on-board output driver stage for low impedance headphones.

- SCPC-2000E ... High stability SCPC demodulator and downconverter \$1,875.00
- SS-1000 SCPC audio demodulator, crystal controlled \$1,027.00
- SCPC-3000E ... Frequency agile synthesized demodulator w/selectable expansion de-emphasis and low pass filters \$1,378.00

Broadcast Tools USC-16

Universal Satellite Channel Controller

The Broadcast Tools USC-16 provides remote channel selection for DAT-SEDAT digital audio decoder cards installed in Scientific Atlanta DAT-32 series, Comtech/Fairchild DART-384 and Ariel Receivers, along with memory selection for the Scientific Atlanta "ENCORE"* receiver. Four open collector outputs are provided for control of the older receivers' transponder selection via the USC-16 serial port. Using a 2400 or 9600 baud serial port (either locally or remotely via modem) the user may program using the Menu Mode to select sixteen DAT-SEDAT channels, sub-channels and 7.5/15kHz selection on each decoder card. Selection of active channels, Encore memories and latching/momentary open collector control are also provided. After these channels have been programmed and/or made active, the USC-16 may be unplugged and installed. The program information is stored in Eprom memory with a retention life of tens years. The USC-16 allows selection of the channels and memories with momentary TTL/CMOS 56 volt logic levels, open collector or dry contact closures, allowing control by a user's remote control system or switch contacts. The 2400/9600 baud serial port provides status for the two channel ports, active memory with the Encore receiver, the last momentary/latch condition of the open collector outputs and a means of performing remote last minute changes via modem or a local computer.



- USC-16 \$299.00
- USC-16/SG Upgrade \$49.00
- SA-Cable For use with Scientific Atlanta DAT-32 series receivers \$39.00

* Note: SA "Encore" receiver software should be 4.0.1 or greater

Broadcast Tools DSC-32/64

Satellite Channel Controller



The Broadcast Tools DSC-32/64 allows complete remote control of two StarGuide II/III, Wegener Unity 4000 or ComStream receivers. An encoder control with a 16 x 2 LCD display provides local control and program descriptions, while external control may be in the form of serial, 32 contact closures or 8 bit binary. Sixty-four, thirty-two character ASCII character strings are provided for each receiver port. The unit also provides a programmable minute and second time-sync relay command each hour. Custom programming is accomplished with a non-dedicated computer. 1U.

complete remote control of two StarGuide II/III, Wegener Unity 4000 or ComStream receivers. An encoder control with a 16 x 2 LCD display provides local control and program descriptions, while external control may be in the form of serial, 32 contact closures or 8 bit binary. Sixty-four, thirty-two character ASCII character strings are provided for each receiver port. The unit also provides a programmable minute and second time-sync relay command each hour. Custom programming is accomplished with a non-dedicated computer. 1U.

- DSC-32/64 Satellite Channel Controller \$399.00

Broadcast Tools DSC-20

Dual Satellite Controller

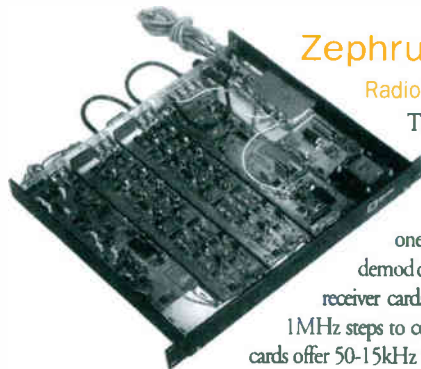
The Broadcast Tools DSC-20 dual satellite controller adds remote control capability to the Scientific-Atlanta Encore, DSR-3610, AD-4595, Virtex StarGuide II/III, Wegener Unity 4000 and Com Stream receivers, allowing memory/service - audio changing by automation systems or contact closures. Customized programming is accomplished with a NON-DEDICATED computer.



- DSC-20 Dual Satellite Controller \$299.00

Zephyrus Series 300

Radio Network Service, Basic System



The Zephyrus Series 300, Radio Network Service, basic system consists of the 304 mainframe, a 1U platform with its own DC power supply and room for one of the two receiver cards, one of the two demod cards, and two optional control cards. The receiver cards are crystal stable but can be tuned in 1MHz steps to compensate for unstable LNB's. Demod cards offer 50-15kHz response at 0dBm nominal output.

- 304 Mainframe, 4 card slots \$95.00
- 321 Mono "Whisper" audio demod \$250.00
- 322 Stereo "Whisper" audio demod \$325.00
- 327 Frequency agile "Whisper" audio demod \$465.00
- 361 AFSK data demod \$250.00
- 366 DFSK data demod \$250/async & \$325/sync
- 381 Three-function 25/35Hz decoder, mono \$325.00
- 383 6 or 15 Function 25/35Hz decoder, stereo \$700.00
- 391 Satellite baseband receiver, above video \$350.00
- 392 Satellite receiver (FM-FM) \$370.00

1-352-622-7700

Marti Discrete STL Systems



A Marti discrete STL system will give you a noise floor near -80dB with equal stereo separation. Twelve volt battery operation is possible with the APS-28/18 power supply. Marti offers a two year limited warranty.

- STL-10 Transmitter, specify frequency \$1,835.00
- R-10 Receiver, specify frequency \$1,835.00
- ARS-15A Receiver switcher, specify frequency \$755.00
- ATS-15E Transmitter switcher, specify frequency \$755.00
- Pkg 50 950Mhz Mono Package, STL10 & R10 \$3,590.00
- Pkg 51 950Mhz Stereo Package, 2-STL10, 2-R10,
2-MTS-1 & 1-HRC-10B \$7,698.00
- Pkg 50MA Monaural System, STL-10, R-10, 2-SC-48,
2-PG1.7B & 2-K-1 \$5,516.00
- Pkg 51SA SCPC 950Mhz St. Pack, 2-SLT-10, 2-R10, 2-SC-48,
2-PG1.7B, 1-MTS-1, 1-HRC-10B & 2-K-1 \$9,624.00

Marti STL-15C Composite Transmitter & Receiver



The Marti Composite STL-15C transmitter and the companion R-15C receiver, form a high quality, frequency synthesized broadcast link (in selected bands). Systems are available from 140MHz to 960MHz. Depending upon the available channel bandwidth, systems can be configured for: Composite FM stereo with one subcarrier • Monophonic audio with two subcarriers • Multi-channel audio or data. Complex systems can be built from basic STL-15C transmitters and R-15C receivers having multiple relay (repeaters), bi-directional (full duplex), and automatic switching hot standby features. It comes with a two year limited warranty.

Composite FM stereo with one subcarrier • Monophonic audio with two subcarriers • Multi-channel audio or data. Complex systems can be built from basic STL-15C transmitters and R-15C receivers having multiple relay (repeaters), bi-directional (full duplex), and automatic switching hot standby features. It comes with a two year limited warranty.

- STL-15C Composite Transmitter \$3,000.00
- R-15C Composite Receiver \$3,000.00
- Pkg 60CA 950Mhz Composite STL Stereo System w/2 ea. Yagi Antennas,
Jumper Cables & Weatherproofing Kits \$7,926.00

Marti DSTL Systems



The Marti DSTL takes advantage of the latest advances in audio, digital, and RF technologies, eliminating compromises in audio quality that is typically found in other hybrid digital and analog system. The frequency range for the DSTL is 845-852Mhz, and

944-952Mhz. The DSTL's receiver sensitivity is an outstanding two microvolts (-100dBm). As a result, the DSTL system has a fade margin approximately 20dB better than conventional STL systems, giving you longer signal paths. Advanced engineering allows the DSTL to successfully co-exist with FM STLs or DSTL systems on adjacent channels, resulting in minimum deterioration of signal quality under fade or interference conditions. Features include: Dolby® AC-2® Digital Audio Coding • wide RF dynamic range provides greater immunity to interference • sophisticated modulation techniques.

- DSTL-2 DSTL System, 2 channel, DP5501A & DP5502,
Specify frequency \$12,500.00
- DSTL-2SG DSTL System, 2 channel, DP5501A, DP5502-406
& Stereo generator, Specify frequency \$12,900.00
- DSTL-2R DSTL System, 2 channel, repeater, DP5501AR
& DP5502R, Specify frequency \$11,500.00
- DSTL-4 DSTL System, 4 channel, DP5503A & DP5504,
Specify frequency \$14,500.00
- DSTL-4SG DSTL System, 4 channel, DP5503A, DP5504-406
& Stereo generator, Specify frequency \$14,900.00
- DSTL-4R DSTL System, 4 channel, repeater, DP5503AR
& DP5504R, Specify frequency \$13,500.00

Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



RF Related Products • STL

Moseley STARLINK 9003T1

Digital Over T1

The Moseley STARLINK 9003T1 is an all-digital, open-architecture, modular system for uncompressed digital audio conveyance over T1 or fractional T1 circuits. The STARLINK 9003T1 mainframe can house 8 application-specific personality modules which allow the user to easily configure appropriate STL/TSL systems. Other product features include: 16-bit linear audio and choice of ISO/MPEG Layer II or apt-X coding • AES/EBU and analog inputs • Built-in sample rate converter • Intelligent Multiplexer with drop and insert; expansion slots for voice and data cards.



PAC2XO	2-Channel STL, 2 linear audio channels	\$8,250.00
PAC4XO	4-Channel STL, 2 linear, 1 data, 2 compressed audio channels	\$13,250.00
PAC2X2	2-Channel STL/TSL, 2 linear audio channels each	\$10,750.00
PAC4X2	4-Channel STL, 2 linear, 2 compressed & 1 data audio ch. & 2-Channel TSL, 2 linear audio ch.	\$15,750.00
PAC4X4	4-Channel STL, 2 linear, 2 compressed & 1 data audio ch. & 4-Channel TSL, 2 linear, 2 compressed & 1 data audio ch.	\$18,750.00

Moseley PCL 6000

Digital Ready STL

The Moseley PCL 6000 is a digital ready STL that can operate in either analog or digital (by adding one of the DSP6000 pkgs), and monaural or composite modes. Both the transmitter and receivers use a synthesized reference oscillator. Two systems can be employed in a dual discrete configuration to transmit right and left stereo programs with no measurable crosstalk. The main determining factor in deciding which receiver is best suited to your application is the amount of aural STL activity in your area. Moseley provides a two year warranty.



For 150,200,300,450 & 950MHz bands:

PCL 6010	Transmitter, specify frequency, 27lbs	\$4,000.00
PCL 6020	Receiver, specify frequency, 24lbs	\$4,250.00
PCL 6030	Receiver, specify frequency, 27lbs	\$5,250.00
PCL 6060	Receiver, Cell Site protection Option, 950 band only, 27lbs.	\$5,950.00

Package Pricing, 950MHz bands:

PCL6020Sys ...	System includes PCL 6010 Tx & PCL 6020 Rx	\$8,250.00
PCL6030Sys ...	System includes PCL 6010 Tx & PCL 6030 Rx	\$9,250.00

For 1.5-1.8GHz bands:

PCL6010	Transmitter, specify frequency, 27lbs	\$7,000.00
PCL 6020	Receiver, specify frequency, 24lbs	\$7,950.00
PCL 6030	Receiver, specify frequency, 27lbs	\$8,950.00
TPT-2	Transmitter Transfer Panel	\$1,350.00
PD-1000	For coupling two receivers from one antenna	\$350.00
ICU-1D	Isocoupler 800-1000MHz	\$495.00

Moseley STARLINK SL9001SS

Spread Spectrum Digital Transmission System

Moseley STARLINK SL9001SS Spread Spectrum Digital Transmission System is a digital RPL using the latest in spread spectrum



RF technology and audio source coding. The STARLINK 9001SS provides CD-quality stereo remotes over distances of up to 30 miles. Untethered from telco service, point-to-point local remotes can be established quickly and efficiently. Open architecture allows a user to select plug-and-play modules for ISO/MPEG Layer II or apt-X source coding. In addition, the same open architecture allows the user to select between analog or AES/EBU input and output modes. A built-in sample rate converter keeps operation considerations to a minimum. The recently assigned 2.4Ghz band for spread spectrum requires no license. The SL9001SS package includes transmitter, receiver, source encoder, source decoder, and antennas. Source encoder and decoder available with choice of apt-X or ISO/MPEG Layer II coding (Please specify when ordering).

SL9001SSPAC	Transmitter/Receiver Package with antenna	\$9,250.00
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Moseley STARLINK SL9003Q

950MHz Studio-Transmitter Link

SL9003Q-2S ..	2 Channel System, includes SL9003Q QAM modulated transmitter and receiver, SL9000SE encoder and SL9000SD decoder audio modules with AES/EBU and analog I/Os with on RS-232 data circuit.	\$12,950.00
SL9003Q-4S ...	4 Channel System, includes SL9003 QAM modulated transmitter and receiver, two SL9000SE encoder and two SL9000SD decoder modules with AES/EBU and analog I/Os with two RS-232 data circuits.	\$16,250.00
SL9003Q-RTX	Contains SL9003Q receiver and transmitter in a single chassis	\$8,500.00
SL9003Q-RT2	Repeater with two decoded audio channels	\$10,000.00
SL9003Q-RT4	Repeater with four decoded audio channels	\$11,500.00
SL9003Q-TX2	Transmitter only with two audio channels	\$7,500.00
SL9003Q-TX4	Transmitter only with four audio channels	\$9,000.00
SL9003Q-RX2	Receiver only with two audio channels	\$6,000.00
SL9003Q-RX4	Receiver only with four audio channels	\$7,500.00



Broadcasters General Store

2840 S. E. 52nd Street
Ocala, Florida 34480-7500

1-352-622-7700

RF Related Products • STL

Moseley DSP 6000 Digital Transmission System



The Moseley DSP 6000 Digital Transmission System can be interfaced to the PCL 6000 series and with a digital ready kit the 606 composite system. With the DSP 6000 in multiple hops, the last hop is as good as the first, full SNR is delivered down to the digital threshold. When used with the optional built-in digital stereo generator, composite stereo can be delivered directly to the FM exciter. The DSP 6000 also has a direct digital input for future digital interconnection. These digital audio source and channel encoders and decoders offer 90dB dynamic range, 0.008% distortion, and are equipped with monaural channels (15kHz) with 85dB crosstalk. Also includes AES/EBU output with coding delay of 3.8ms.

DSP 6000E2	Two audio and one data channel encoder	\$2,995.00
DSP 6000D2	Two audio and one data channel decoder	\$2,995.00
DSP 6000E4	Four audio and two data channel encoder	\$4,450.00
DSP 6000D4	Four audio and two data channel decoder	\$4,450.00
DSP 6000ER	Digital repeater encoder	\$2,295.00
DSP 6000DR	Digital repeater decoder	\$2,295.00
DSP 6000/PCL 6020 ...	System including DSP 6000E2/D2 with PCL 6010TX/6020RX	\$12,000.00
DSP 6000/PCL 6030 ...	System including DSP 6000E4/D4 with PCL 6010TX/6020RX	\$14,000.00
Add	To substitute a PCL 6030 Receiver	\$1,000.00

QEI QUICK-LINK Digital Stereo Microwave System



The QEI QUICK-LINK is a digital stereo microwave system for broadcasters to use for RPU, backup STL/TSL, or anything else requiring a high fidelity, quick and easy, digital stereo transmission, without any audio delay. It accepts

stereo or monaural audio from any mixer. Features include: XLR connectors • Two LED bargraphs • Two user signals to the receiver to control or flag equipment at the studio • Ten coding channels • Powered by AC or DC • Coding chan-



nel in use and lock status indication • and can remotely select receiver's channel code.

QUICK-LINKII	Includes 2 Quick-Link terminals priced less antennas & line	\$8,750.00
QLII-R	Wireless spread spectrum repeater for Quick-Link II ...	\$5,650.00
QLC	Configuration software, for advanced system users	\$195.00
QLC-MA	QLC software maintenance agreement (annual renewal)	\$100.00
QL-BA	Balanced audio I/O option	\$450.00
QLM	Rack mount ears and transport handle kit	\$55.00
QL-Yagi	15dB gain Yagi with radome (N female input)	\$275.00

Broadcast Tools SRC-8A adds remote relay control to your DSP-6000 (or equivalent) digital STL or ISDN remote equipment. See Page 141!

sbs TX400 Transmitter & RX400 Receiver



The sbs frequency agile TX400 and RX400 series of high performance links are designed to meet the requirements of radio stations needing either fixed link or RPU systems. The TX400 and RX400 series can be supplied in any of the permitted operating frequencies between 48 MHz and 960 MHz. They are available with RF and composite bandwidths suitable for all applications. Other options include audio input low pass filter/limiters and stereo generator, AES/EBU or composite input alone. Receivers feature helical filters and high level double balanced mixers for high performance even in high RF environments.

Specifications for the TX400: Frequency range: 48-55, 420-520 and 800-960MHz • Output: 25W typical at 50/400MHz, 7W typical at 800-960MHz • Power Supply (AC) 110/230Vac ±10%, 50/60Hz, < 100VA • Power Supply (DC) 24 to 30V, < 100VA.

Specification for the RX400: Sensitivity <88µV typical for 60dB SN stereo 75µS • Stereo separation >50dB typical • Warranty 5 Years.

TX400	Composite/Mono Transmitter	\$2,345.00
TX400/S	Stereo Transmitter	\$2,795.00
DLM3	Limiting Option for Mono TX400	\$182.00
RX400	Composite/Mono Receiver	\$1,645.00
IRX400/S	Stereo Receiver	\$1,895.00



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www.broadcastdealer.com



RF Related Products • Towers



ERI Towers

ERI Towers offer not only structural strength but also an antenna interactive design that complements your coverage goals. Strength, durability and accountability are ERI's cornerstones. Before any support structure leaves ERI, it is first cross-referenced to the steel mill certificates. Next, it is inspected by using a non-destructive magnetic particle test, monitored by an independent certified inspection company. This

procedure provides the accountability you demand and is proof solid of ERI's commitment to structural superiority. With ERI you are purchasing a complete package including antenna and structural engineering services, antenna interactive tower design, proof solid structural verification, and the best installation service.

ERI SSTX Self Supporting Tower

The ERI SSTX Self-Supporting Tower series is entirely constructed of solid steel members. This design eliminates any of the inherent design flaws associated with pipe legs or inner members. Another advantage of the SSTX series is the diminished requirement for redundant inner members. Decreasing the number of inner supports reduces wind load area and installation time. The net result is a very strong yet cost effective structure.

ERI Bolt Together Guyed Tower

The ERI Bolt Together Guyed Tower is the solution when the need arises for antenna support structures over 1200', extremely severe loading conditions, or when shipping size is critical. Tower face widths range from 5' to 10' with a maximum height of 1500'.

ERI GWX/GWZ Guyed Tower

The ERI GWX/GWZ Guyed Tower series are often the most economical means of elevating an antenna system. The guys of a guyed tower have a very large base and are arranged for tension-only loading. This creates a structure using significantly less steel than a self-supporting type, thus saving on material, fabrication and installation costs. The GWZ series extends to 460' with a maximum 6-bay load, while the GWX series offers heights from 540' to 1100' with a maximum 12-bay load.

Environmental Technology De-icing



- APS3B Provides automatic snow melting system control \$765.00
 CIT™-1 Sensor detects falling or blowing snow at temp below 38°F \$320.00
 LCD™-3S Snow Switch®, De-icing control senses both temp and precip. \$375.00
 LCD™-4 Automatic rain blower control \$162.00

SSAC Tower Flashers

SSAC totally solid-state tower flashers have proven reliability with years of use on radio and TV towers. Flash single or multiple beacons, simultaneously, alternately or sequentially and sense lamp failure with an alarm output. SSAC gives you a modular approach to your lighting needs with efficiency and economy.

- FS-155-30-T Flasher, two beacons (120VAC) \$130.00
 FS-165-30-T Flasher, up to four beacons (230VAC) \$145.90

PolyPhaser Coaxial Lightning Protection - See page 152-153!

Harger Lightning Protection

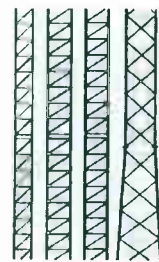
Harger Lightning Protection, Inc. has been providing lightning protection and grounding equipment since 1960. Harger Lightning Protection has the capacity to produce special items as well as modify their standard component line. Some of the items available are: lightning protection & grounding conductors • air terminals • air terminal bases • ground electrodes and accessories • cable clamps, splicers, fasteners and accessories • pipe clamps, bonding lugs, plates & ground straps • thru-roof/thru wall assemblies • lugs & hardware • ground bus systems • ground mesh and SRGs • communications grounding equipment • lightning arrestors, TVSS, RF protection • exothermic connections • and more.

Please call for a full line catalog and pricing.

ROHN Towers

Since 1948 ROHN has been making towers for the broadcast and communications industries. Towers are available as self supporting or bracketed guyed. All towers, welds, bolt holes, etc. are "hot dip galvanized", which coats tubular steel on the inside and outside, for complete corrosion resistance. All ROHN towers are custom designed for each specific installation and can be ordered pre-painted with lighting kits and other options.

Call Broadcasters General Store to get a quote.



Sine Systems Thermal Sentry

The Sine Systems Thermal Sentry provides an indication of operating efficiency by measuring the temperature difference across two points of a system. This device uses two precession sensors to monitor the temperature at both the air intake and exhaust points of the main transmitter cabinet. The temperature differential is calculated and displayed on the front panel LED display. After normal operating conditions are determined the tolerance can be set to provide a warning when the temperature goes out of range. Thermal efficiency can warn of problems like clogged air filters, failed cooling blowers and antenna icing before damage occurs to the transmitter. Outputs are available so that the temperature differential and the alarm status can be monitored by a remote control system.

- TSN-2 Thermal Sentry II \$315.00

Stati-Cat™ by Cortana Lightning Prevention System



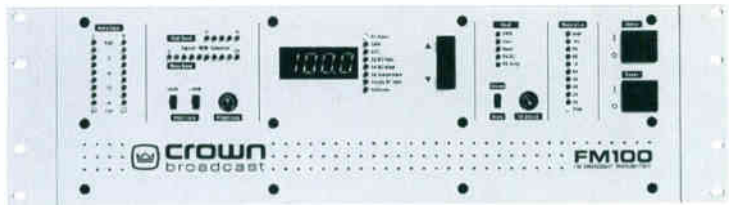
The Stati-Cat™ by Cortana, lightning prevention system works through the principle of charge dissipation, providing a continuous low resistance discharge path for the static electric charge found on all tall structures. Stati-Cat charge dissipaters reduce the charge above a structure, and is designed to prevent a strike. Stati-Cat will design a system for your tower at no charge. Warranty is void if their system design is not used.

Call Broadcasters General Store to get Stati-Cat information and to make arrangements for your system design.

- SC-1 Stati-Cat™ charge dissipater \$370.00
 SC-3 Guywire and small tower dissipater \$50.00
 SC-4 Tomcat dissipater \$420.00
 CN-1 Crow's Nest dissipater \$1,525.00
 CN-1D Diagonal Bar for Crow's Nest \$450.00

RF Related Products • Transmitters

Crown Integrated FM transmitter system



A Crown integrated FM transmitter system combines built-in audio processing and stereo generation in one rugged, compact unit. Each model provides excellent signal quality, ease-of-use and economical long-term reliability! The integrated FM transmitter system can be a stand-alone or stand-by transmitter, ideally suited for translator, satellator and booster operation. The integrated design makes installation quick and easy, requiring only an audio source (mono, L/R stereo or composite signal), antenna and AC or DC power. The built-in remote I/O interface supports remote control and monitoring for critical functions, and the DC power hookup can provide uninterrupted service when AC power is lost.

	Exciters	Price	Transmitters	Price	Translators	Price
30 Watt	FM30E	\$3,495.00	FM30T	\$4,195.00	FM30R	\$4,195.00
100 Watt	FM100E	\$5,350.00	FM100T	\$6,150.00	FM100R	\$6,150.00
250 Watt	FM250E	\$7,495.00	FM250T	\$7,495.00	FM250R	\$7,495.00
500 Watt	FM500E	\$8,995.00	FM500T	\$9,795.00	FM500R	\$9,795.00
1000 Watt	FM1000E	\$15,795.00	FM1000T	\$15,795.00		
2000 Watt	FM2000E	\$20,795.00	FM2000T	\$20,795.00		

Delta ASE-2 AM Stereo Exciter

The Delta ASE-2 is a 1U, low cost high performance AM Stereo Exciter. All controls are on the front panel. The operating frequency is crystal controlled for maximum stability and minimum phase noise.

- ASE-2-1 Basic unit which includes TTL drive \$4,605.00
- ASE-2-2 Basic unit with high level output option \$4,800.00
- ASE-2-3 Basic unit with synchronous transmitter option \$4,870.00
- ASE-2-4 Basic unit with high level output option and the synchronous transmission option. \$4,910.00

JT Communications FMP-20 Portable LPFM Exciter



JT Communications FMP-20 FM exciter/transmitter- 12Vdc operation; utilizes the PLFM-100A as the frequency agile PLL FMO, with 100 kHz steps.

Spike, reverse-voltage and noise suppressed power input. Internal PLL lock-up protection, adjustable 0-15W output, with remote/local carrier control. Remote/Local metering of IPA and PA stages, Low-pass filter. FCC type verified. Features include: Portable "Plug-N-Play" operation • Surge, spike & noise filtered 12Vdc power input • Adjustable Low-pass filtered 0-15W output • 88-108 frequency agile operation • Remote/local metering & RF control • Portable digital multimeter included • FCC Type Verified- meets all FCC broadcast specs. Key Benefits: Low cost • LPFM/Emergency/Standby use • Portable operation

FMP-20 Portable LPFM Exciter \$724.95

Marti ME-40

40 Watt Synthesized FM Broadcast Exciter/Transmitter

The Marti ME-40, a 40 Watt synthesized FM Broadcast Exciter/Transmitter is an excellent choice to replace your older



existing exciters or for use as a standby. Features include: 40 Watt VSWR protected power output • Peak-hold baseband modulation LED display • Test multimeter with forward and reverse power range • and Full remote capability.

ME-40 40 Watt synthesized FM Broadcast Exciter/Transmitter \$3,495.00

Marti PNP 150 Plug & Play Transmitter

The Marti PNP 150 transmitter is designed for applications where value is the key. Features include:



latest digital exciter technology • accepts analog or digital audio input from an STL, ISDN or direct feed • built-in stereo generator and audio processor • up to 150 watts into 1.5 to 1 VSWR • full remote control ready • rack mount or table top operation • digital input: AES/EBU, SPDIF, TOSLINK • Analog input: Composite, Left and Right, Audio • frequency range: 87.5MHz to 108MHz jumper selectable to specific operating frequency (programmable in 50kHz steps). Easy to install, it is a "Plug N Play".

PNP150 "Plug N Play" FM transmitter \$4,950.00

Marti CD-15 Composite Demodulator

The Marti CD-15 Composite Demodulator is for anyone looking for a cost effective



way to demodulate a composite signal to baseband left and right audio. It enables audio monitoring at repeater sites, running a composite AM transmitter feed, or even running composite remotes (export only). All controls are front panel mounted with simultaneous left and right metering. Independent output level adjustments for each channel insure an exact match to your system.

CD-15 Composite Demodulator \$1,495.00

NiCOM NT 20 Phase Locked Loop Programmable FM Exciter/Transmitter 87.5-108MHz Range



The NiCOM NT 20 includes: low pass/harmonic filter and can be used as a stand-alone transmitter • instant front panel programmability in 10kHz increments • soft-start from RF mute status • adjustable power output from 2 to 20W with automatic power control maintaining the output at any pre-set level • main parameters available also on rear terminal board for remote control • available with built-in stereo generator • compatible with external references for custom phase locking in synchronous applications • meets or exceeds all FCC and CCIR requirements • high reliability provided by conservatively rated components • modular layout with plug-in, easily replaceable circuits and parts • optional 24Vdc capability.

NT 20 Phase Locked Loop Programmable FM Exciter/Transmitter \$1,980.00

RF Related Products • Transmitters

QEI 675B & 695 FM Exciters

The QEI FM Exciters are all solid state, on carrier direct FM, phase locked, and frequency synthesized. They are designed to meet or exceed the FCC requirements for use in the standard FM broadcast band. The Exciters may be programmed to operate on any 100 KHz increment using the same high stability 8 MHz crystal as a reference. The 695 FM Exciter's output is variable from 5 to 20 Watts with "Auto-mod" automatic modulation control, very low noise, and distortion < 0.025% independent of temperature. The 695 has bargraph modulation metering with built-in peak



counter, an annunciator panel, and a spectrum display output which permits Bessel-Null calibration of modulation monitoring.



675B	FM Exciter, 115/230 Vac	\$3,095.00
695	FM Exciter, 115/230 Vac	\$5,600.00

QEI Quantum "E" Series Transmitters



The QEI Quantum "E" Series is an all solid state, broadband, frequency synthesized, "on carrier" direct FM, phase locked, transmission system. It is programmed to operate on any 100kHz increment in the FM band. Direct FM "on carrier" operation ensures spurious free transmission and extremely low distortion, crosstalk and noise

without stereo degradation. The Solid State FET Power Amplifier of the Quantum "E" is unconditionally stable and will withstand any magnitude or phase of VSWR indefinitely without damage by automatically reducing power. 3U

Quantum 150E	150 Watt FM Exciter/Transmitter, 115Vac	\$4,650.00
Quantum 150EA	150 Watt FM Amplifier Only, 115Vac	\$4,195.00
Quantum 300E	300 Watt FM Exciter/Transmitter, 115Vac	\$5,695.00
Quantum 300EA	300 Watt FM Amplifier Only, 115Vac	\$5,195.00
Quantum 600E	600 Watt FM Exciter/Transmitter, 115Vac	\$7,795.00
Quantum 600EA	600 Watt FM Amplifier Only, 115Vac	\$7,295.00
Quantum 230VAC ..	230 Vac option for E & EA	\$155.00

Silicon Valley FM RF Amps

The same amplifier modules are used in their complete FCC compliant FM Broadcast Power Amplifiers. These rack mount solid state amplifiers need no adjusting or tuning, have VSWR foldback, forced air cooling, interface for remote control and monitoring. Output power guaranteed at any frequency in the FM band. Can be fed directly into the antenna, or can be used to replace a tube IPA, or as a back-up for emergency use. All products are completely made in the USA.

B-150	150w output, 10 watts input, Type N output connector	\$1,975
B-300	300w output, 10 watts input, Type N output connector	\$2,750
B-450	450w output, 20 watts input, Type N output connector	\$3,495
B-600	600w output, 25 watts input, Type N output connector	\$4,150
B-850	850w output, 40 watts input, Type N output connector	\$5,795
10/1000	1kW output, 10 watts input, 7/8" flange output connector	\$6,350
B-1000	1.2kW output, 50w input, Type N output connector	\$6,500
B-1500	1.5kW output, 10w input, 7/8" flange output connector	\$11,995
B-2000	2kW output, 10w input, 7/8" flange output connector	\$14,495
10/3000	3kW output, 10w input, 7/8" flange output connector	\$19,350

QEI FMQ Series Transmitters



QEI FMQ Series: Advanced technology, reliability, and conservative design are the hallmarks of QEI transmitters. All key parameters have alarms to warn you before the critical failure point. They all utilize single EIMAC tubes in grounded grid configurations with a 15,000 hour tube warranty! The driver stages are 100% solid state and automatic power control is standard. For ease of service both the IPA and power supply modules can be removed from an on-air transmitter. All transmitters come with the 675 exciter or can be ordered with the 695 exciter which also provides automatic modulation control. Prices include a spare parts kit and a factory check out after installation. All these transmitters are available with single phase power supplies with the option of a three phase power supply.

FMQ-5000B ..	5kW FM Transmitter, single cabinet design	\$27,895.00
FMQ-10000 ...	10kW FM Transmitter, single cabinet	\$36,095.00
FMQ20000B-3	20kW FM Transmitter, two cabinet design, three phase	\$55,695.00
FMQ20000B-1	20kW FM Transmitter, two cabinet design	\$61,295.00
FMQ30000B-3	30kW FM Transmitter, two cabinet design, three phase	\$58,195.00
FMQ30000B-1	30kW FM Transmitter, two cabinet design	\$63,895.00
Option/03	Replace 675 with 695 Exciter	\$2,700.00
Option/05	Delete 675 Exciter (Deduct)	-\$1,195.00

Silicon Valley Replacement Power Amplifier Modules



Replacement Power Amplifier modules for Harris and Continental IPAs. If no manufacturer is specified the Continental version is supplied.

0101-700CH	700W output	\$1,925
0101-500CH	500W output	\$1,750
0101-300CH	300W output	\$1,345
0101-150CP	150W pallet	\$475

The 10/1000 FM Broadcast Power Amplifier is a fully self-contained solid-state 1 kW broadband FM amplifier with VSWR foldback and full remote capability.

The amplifier combines the outputs of two 500 watt modules driven by a pre-amp with external gain control and requires only ten watts of drive to reach full output power. The switch mode power supply ensures the output is immune to line voltage variations. This rugged and versatile amplifier weighs only 75 lbs and is equally at home running continuously or being hauled from site to site to stand in for a transmitters under maintenance.



The new sbs range of transmitters, amplifiers, translators and ancillary equipment offer proven reliability and functionality gained by years of experience worldwide in manufacture and installation of FM radio stations. sbs transmitters have multiple options ranging from external very high quality limiters and stereo generators to internal limiter/generator packages for smaller budgets. All transmitter and link equipment includes comprehensive remote control and monitoring functions as well as clear front panel display of system status, modulation, power, and full fault condition indication. Transmitter program input equipment includes a full range, from fully featured input and STL change over/audio fail detectors with composite monitoring to distribution and line drive amplifiers.

sbs FM10 - 10 watt FM Exciter



The sbs FM10 is a high specification broadcast FM exciter featuring wideband design techniques, frequency adjustment is easily achieved by internally set direct reading dial switches - no further tuning is required. Ultra linear modulator for superb sound with freedom from overshoots and artifacts. Effective VSWR foldback system allows operation into any

load without damage. Conservatively rated components are used for extremely high reliability and efficiency. The FM10 is available in four versions priced below. The rear panel has a RF output monitor point and includes a monitoring socket that allows status signaling to an external system. Frequency range 87.5 to 108MHz in 50kHz steps • Frequency stability $\pm 200\text{Hz}$ • Power Output 1W to $>10\text{W}$ (adjustable) • Harmonic & spurious output $< -60\text{dBc}$ (30MHz to 1GHz) • Spurious outputs $< -100\text{dBc}$ (87.5MHz to 137MHz @ $f \pm 0.5\text{MHz}$) • AM Noise $< 0.5\%$ @ $\pm 75\text{kHz}$ deviation • Input sensitivity + 8dBu (adjustable) for $\pm 75\text{kHz}$ deviation • Sample rate (AES/EBU version) 32, 44.1 & 48kHz transformer balanced • Warranty 5 Years.

FM10	Composite Input	\$1,445.00
FM10/M	Mono Input with Limiter	\$1,615.00
FM10/S	Stereo Inputs with Stereo Generator and Limiters	\$1,795.00
FM10/AES/EBU	AES/EBU Stereo Input without Limiters	\$1,995.00

sbs FM30 - 30 Watt FM Exciter



The sbs FM30 is a top specification broadcast FM exciter that is also ideally suited as a low power stand alone transmitter. Featuring wideband design techniques, frequency adjustment is easily achieved by internally set direct reading dial switches - no further tuning is required. The FM30 uses a ultra linear modulator for superb sound with freedom from overshoots

and artifacts. It will operate into any load without damage thanks to its VSWR cut back circuit that protects the power amplifier stage from adverse operating conditions. The FM30 front panel metering shows forward and reflected power together with internal voltages and the modulation level. Quick-view status monitoring using dual color LEDs indicate that PLL lock, forward power and reflected power are normal. The rear panel includes a remote control/monitoring socket that allows carrier muting and status signaling to external systems.

Conservatively rated components and a switch mode DC-DC converter are used to ensure high reliability

and efficiency. Frequency range 87.5 to 108MHz in 50kHz steps • Frequency stability $\pm 200\text{Hz}$ • Power Output 0 to $>30\text{W}$ • Harmonic & spurious output $< -70\text{dBc}$ (30MHz to 1GHz) • Spurious outputs $< -100\text{dBc}$ (87.5MHz to 137MHz @ $f \pm 0.5\text{MHz}$) • AM Noise $< 0.5\%$ @ $\pm 75\text{kHz}$ deviation • Input sensitivity +8dBu (adjustable) for $\pm 75\text{kHz}$ deviation • Composite response $\pm 0.3\text{dB}$ (5Hz-100kHz) without pre-emphasis • Warranty 5 Years.

FM30	Composite Input	\$2,574.00
FM30/M ..	Mono Input with Limiter	\$2,745.00
FM30/S	Stereo Inputs w/Stereo Generator and Limiters	\$2,992.00
FM30/AES/EBU ...	AES/EBU Stereo Input without Limiters	\$3,234.00

sbs PA125/PA250/PA500 - FM Power Amplifiers



The sbs PA125 and PA250 are high specification FM Power Amplifiers, using the latest design and construction techniques. They give unprecedented performance, excellent control and monitoring with maintenance free use in 2U. Both amplifiers are a wideband design requiring no tuning, offering very easy installation. One of the most novel features

of these amplifiers is the heat-dissipating "fresh-air-tunnel" with intelligent fans. These provide sophisticated cooling to the specially designed heat sink in a stream of air that needs no filtering, saving on routine filter replacements. No active components are in the air flow thus keeping sensitive areas entirely unsoiled. An efficient power supply design, combining a toroidal transformer and switch mode regulator which are ideally suited to transmitter applications where the rejection of supply borne voltage spikes and surges is of prime importance. Circuit boards bonded to the massive heat sink/ground plane are used to achieve remarkable thermal stability at the surface mounted component level, leading to excellent reliability. RF Input 3W(PA125) 5W(PA250) 10W(PA500) • RF Output 10 to $>125\text{W}$ (PA125) 20 to $>250\text{W}$ (PA250) 40 to $>500\text{W}$ (PA500) front panel pre-set • Input/Output Impedance 50Ω • Harmonic & spurious output $< -75\text{dBc}$ (30MHz to 1GHz) • Spurious outputs $< -90\text{dBc}$ (87.5MHz to 137MHz @ $f \pm 0.5\text{MHz}$) • AM Noise $< 0.5\%$ @ $\pm 75\text{kHz}$ deviation • Minimum return loss 12dB at full power (foldback above this level) • Warranty 5 Years.

PA125	FM 125 Watt Power Amplifier	\$2,540.00
PA250	FM 250 Watt Power Amplifier	\$3,590.00
PA500	Uses 2 PA250 Amplifiers & a Combiner	\$7,995.00

RF Related Products • Transmitters

sbs RX400/RBRX - Rebroadcast Receiver



The sbs RX400/RBRX is a very high performance receiver for use in translators. It uses a high level precision crystal oscillator feeding a double balanced mixer which gives unprecedented performance in the presence of strong adjacent signals. It is designed to meet the need for a fixed frequency receiver to supply program feed in a translator application even when high power transmitters would render other receivers unusable. De-emphasised stereo and mono as well as composite outputs are provided. The RX400/RBRX is also ideal for use in high RF environments to provide an off-air studio receiver source of the highest quality. The signal strength is shown on a front

panel meter. Headphone monitoring with volume control is provided. The RX400/RBRX has two relays that can be used for control of associated equipment. The Stereo Pilot tone operates a changeover relay with contacts on the rear panel. RF Input 50Ω • Frequency Range 87.5-108MHz • Selectivity >95dB @ ± 400kHz (Close channel spacing version available) • Ultimate quieting -75dB (50Hz to 15kHz 75μs) • Audio output at 75 kHz deviation -20dBu to +10dBu • Audio distortion < 0.2% • Audio Outputs 75Ω Electronically balanced • Separation >50dB typical • Warranty 5 Years.

RX400/RBRX \$1,195.00

sbs MaXiM - Processor/Limiter

The sbs MaXiM is a very high specification broadcast modulation limiter. The MaXiM is a three-stage design using split-band limiting techniques. A broadband limiter and sliding pre-emphasis limiter (switchable) are employed.



Program dependent attack and release time constants are automatically selected to give an exceptionally clean sound. On its own the MaXiM can produce a loud and punchy sound or an open and transparent effect similar to that achieved with manual gain control. This is purely

dependent upon the settings of the long release time constant and the amount of gain reduction.

The MaXiM handles already processed signals equally well, leaving your sound exactly as you intended it to be; additionally it can be used to further enhance the signal. A 1dB step precision attenuator guarantees the input setting accuracy. A safety clipper stage (switchable) at the output sets the maximum output level. The inbuilt 'test' mode allows easy adjustment of other transmission system components.

Input impedance 20k/600Ω, internal switchable. Input level (for limiting) -2 dBu to +9 dBu (or -8dBu to +3dBu) in 1dB steps. Output impedance 22Ω balanced. Output level (broadband limit) +8.5dBu (factory set). Output level (hf limit) +9dBu (factory set). Output level (clipping) +10dBu (factory set). Frequency response ± 0.5dB (20Hz - 20kHz), below limiting. THD (limiting, worst case) 0.1 % at 1kHz. THD (limiting, worst case) 0.2 % at 100Hz. Broadband limit control range 28dB. Warranty 5 Years

MAXIM \$1,399.00

sbs Guardian - Broadcast Audio Fail Control

Concise control of audio, and composite source failures. Automatically switches to mono or external source or backup processor depending on fault. Includes alarm/start/stop outputs. The sbs Guardian Broadcast Audio Fail Control Unit is designed to provide sophisticated management of audio signals, such as audio lines, STLs and even composite signals. Incoming signals are monitored and if a fault is detected by the Guardian on one channel, it will derive a mono feed from the remaining channel or if both are lost it will switch to an external source, such as a CD, to keep transmissions running. Audio signals are passed through the Guardian on relay contacts giving a fail safe system with no active components in circuit. The Guardian uses 300Hz-3kHz bandpass filters followed by separate dynamic range and static level detectors to discern between fault conditions such as hum on a line and valid program feeds. This technique almost completely eliminates false triggering. A level and pilot detector (switchable) are included in the composite detector, switching to the backup immediately if a composite fault is detected. The rear panel includes the remote control/monitoring socket that provides an interface to alarm systems and con-



rol of external systems, such as starting a CD player. An external control may be connected to force a 'mono from left', 'mono from right', 'external in' or 'Alt Input' to be the signal in use, with similar control of the composite detector. All of the audio detector outputs are available as open collectors. The delay before switching to backup is easily set by the front panel control knob. The delay before returning to the normal state can be set to fast or slow by a front panel switch. The Guardian can also be forced to the backup or main feed, over-riding the detectors from the delay time control. A switch selectable +10dB amplifier can be enabled on the external Input to allow the use of "domestic" equipment such as a CD player with a low level output. Quick-view status monitoring using dual color LEDs is provided for on-site monitoring of Left, Right, Alt, and composite audio inputs. LEDs indicate the state of the detectors. Input impedance 600/10k • Switch selected detection delay 5-90 Seconds, user selectable (5,10,20,30,.90) • User selectable external input gain 0 or +10dB • Warranty 5 Years.

Guardian \$1,099.00

sbs MPX5 Stereo Generator

The sbs MPX5 is one of the very best stereo generator available on the market today. Linear phase anti-aliasing digital filters are used to reduce overshoots, enabling average modulation and therefore loudness to be significantly increased, without over-deviation. Extensive use of digital waveform synthesis and DSP ensure superior audio performance. An optional overshoot compensator, which eliminates the undesirable effects of 15kHz low pass filtering necessary in stereo generators, is designed to enable radio stations in competitive markets to increase modulation levels by 2-5dB. The MPX5 uses high performance VCAs with a single input gain setting making alignment a very simple process. Pre-emphasis may be set to 0/50/75 μs. Only 1U of rack space is occupied and front panel tamper proof multi-turn controls for Input, Output and Pilot Level presets are pro-



vided. Input impedance 50k/600Ω, switchable on rear panel • Input level +10dBu (adjustable +4/-2dB) for peak modulation • Input CMRR 70dB (20Hz-20kHz) • RBDS/SCA input level 0dBu ± 0.3dB for ± 2kHz deviation. RBDS/SCA input impedance 10k/75Ω, switchable on rear panel. Output impedance 22/75Ω, switchable on rear panel • Output level (22Ω) +8dBu (adjustable +0.5/-5.5dB) for peak modulation • Output level (75Ω) +2dBu (adjustable +0.5/-5.5dB) for peak modulation. Frequency response ± 0.3dB (20Hz-15kHz), <-60dB above 15.4kHz • Pilot frequency stability ± 1Hz • 38kHz suppression <-60dB • Crosstalk better than 60dB • Distortion, THD and beats <-60dB (20kHz-15kHz) • Warranty 5 Years.

MPX5 \$1,199.00

MPX5/0S \$1,299.00

Clipper Products

Model #	Wt. Capacity	Cart Wt.	Price
880-2	400	19	\$169.95
770-2	400	15	\$129.95
660-2	300	13	\$109.95
440-2	150	8.5	\$79.95



Comrex Road Cases



Comrex makes road cases to meet every traveling need. The softside case, made of sturdy foam-lined nylon, is perfect for dashing off to that last minute remote or carrying right onto the plane with you. This case comfortably holds an Envoy, Vector, Matrix, HotLine or Nexus with additional pockets for microphones, headphones, cables etc. the heavy-duty plastic road cases care for your remote equipment when its not in your hands. The small road case measures 18"x13"x8" with custom foam inserts for the Envoy, Vector, Matrix, HotLine or Nexus. The large road case comes with foam inserts for an Envoy or Vector. Measuring 24"x17.5"x12", the large road case has extra compartments for peripheral gear. It also has recessed wheels and a retractable handle for easy transport.

Softside Cases	\$100.00
Small Road Case	\$200.00
Large Road Case	\$375.00

Kaces III Protective Gig Bags



Kaces III Protective Gig Bags feature: sturdy web handles • heavy duty metal zippers • burgundy trim zippers • tear resistant nylon • ultra thick padding • and accessories compartment.

KEB-20	Holds Marantz PMD 101, 201, 221, 222 & 430 and many wireless mic systems	\$24.95
KEB-22	Holds Mackie 1202	\$25.95
KEB-31	Holds Mackie 1402	\$37.95
KEB-30	Holds Mackie 1604	\$54.95
MB-6	Microphone Bag, hold 6 mics and accessories	\$89.95
MB-12	Microphone Bag, hold 12 mics and accessories	\$99.95

Mackie Mixer Bags

Mackie Mixer Bags have rich Corinthian suede leather from low-distortion cows with 1kHz horns. This gig bag has internal foam padding, double stitched nylon joints, snap-cuff handles, carry strap, extra front pocket for cables and mics and has the embroidered Mackie logo.

Mixer Bag for the 1202-VLZ PRO & MS1202-VLZ	\$49.99
Mixer Bag for the 1402-VLZ PRO & MS1402-VLZ	\$69.99
Mixer Bag for the 1604-VLZ PRO & CR1604-VLZ	\$89.99



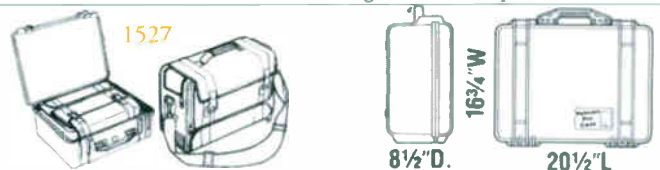
Pelican Cases



Pelican Protector® cases are watertight and airtight to 30 feet for the ultimate in protection. Constructed of light-weight space age structural resin with a neoprene o-ring seal and exclusive purge valve. Supplied complete with pre-scored pick n' pluck foam or padded dividers (no cutting required). Also includes locking flanges, massive multiple latches for absolute security and a comfortable molded fold down handle. Integral personalized name plates can be engraved at additional cost.

Description	Outside Dimension	Inside Dimension	Weight	Price
1200 Case	10-3/4" x 9-3/4" x 5"	9-1/2" x 7-1/2" x 4-1/2"	3 lbs.	\$49.50
1300 Case	10-3/4" x 9-3/4" x 7"	9-1/2" x 7-1/2" x 6-1/2"	3.5 lbs.	\$59.60
1400 Case	13-1/2" x 11-3/4" x 6"	9-1/2" x 7-1/2" x 6-1/2"	3.5 lbs.	\$90.46
1450 Case	16-1/8" x 13-1/4" x 7"	15" x 10-1/2" x 6"	7.5 lbs.	\$116.90
1500 Case	18-1/2" x 15" x 6-7/8"	17" x 11-3/4" x 6"	8.5 lbs.	\$136.36
1520 Case	19-1/4" x 15-5/8" x 7-5/8"	18" x 12-7/8" x 6-3/4"	10.5 lbs.	\$150.06
1550 Case	20-3/4" x 17-1/4" x 8-5/8"	19" x 14" x 7-3/4"	14 lbs.	\$170.50
1600 Case	24-1/4" x 19-1/2" x 9"	22" x 17" x 8"	17 lbs.	\$201.86
1650 Case	332" x 21-3/4" x 11-1/2"	29" x 18" x 10-1/2"	17.5 lbs.	\$295.76

Dimensions shown are Length x Width x Depth



1544	1450 Case with padded dividers	\$154.46
1504	1500 Case with padded dividers	\$165.26
1524	1520 Case with padded dividers	\$191.80
1526	1520 Case w/1527 convertible travel bag	\$241.66
1527*see below	Convertible travel bag only	\$110.26
1554	1550 Case with padded dividers	\$233.60
1604	1600 Case with padded dividers	\$265.36
1654	1650 Case with padded dividers	\$385.56
1508	Photographer's Lid Organizer Holds film, filter, gadgets, notes	\$20.96
1509	Attaché Lid Organizer, fits 1500/1520 Holds paper, pens, calculator etc.	\$23.06

*The 1527 Travel Bag is designed to fit inside a 1520 case. Converts instantly from a hard case to soft bag, for complete hardknocks travel protection. Just pull out for short day trips etc. sling over your shoulder and go without rearranging anything. Made of heavy duty waterproof padded Ballistic Nylon with multiple front and side gadget pockets. Padded adjustable divider system protects complete outfits. Exclusive top/side access to equipment while in use with thick curved and padded shoulder strap. All nylon zippers and clips. 17 1/2" L x 12 1/2" W x 6 1/4" D in black.

Studio Furnishings • Cases

Porta-Brace



Porta-Brace has a case for any of your field production crews needs,
Please call Broadcasters General Store for a Porta-Brace catalog.

- AO-1U Audio Organizer, Inside measurements 6"W x 8"H x 14"L \$270.00
- RB-1 Run bag, 7"W x 9-1/2"H x 18"L \$152.00
- RB-2 Run bag, 7"W x 9-1/2"H x 21"L \$158.00
- RB-3 Run bag, 7"W x 9-1/2"H x 25"L \$163.00
- CAR-1 Cargo case, inside measurements 8"W x 10"H x 13"L \$178.00
- CAR-2 Cargo case, inside measurements 8"W x 10"H x 18"L \$188.00
- AR-*** Recorder cases for HHB, Marantz PMD's, Sony TC-D5
& Sony TCD-D10 PRO, Tascam DAP1 and more .. \$192.00-\$271.00
- MX-*** Mixer Cases for Shure FP-31/32/32A/33/ or 410 \$176.00

Modern Cases Rack Bags



Modern Cases Rack Bags are a lightweight, durable protective case for your rack equipment. Made of foam covered plywood and cordura fabric, the bag simply zips open front and rear for quick access. Carrying straps are included.

Model ...	Depth	1U	2U	3U	4U	5U	6U
RB10 ...	10" shell ..	\$84.00 ..	\$90.00	\$94.00 ...	\$100.00 ..	\$110.00 ..	\$126.00
RB12 ...	12" shell ..	\$96.00 .	\$100.00 ..	\$104.00 ..	\$110.00 ..	\$122.00 ..	\$136.00
RB15 ...	15" shell .	\$108.00	\$112.00 ..	\$118.00 ..	\$126.00 ..	\$136.00 ..	\$148.00
RB18 ...	18" shell .	\$126.00	\$130.00 ..	\$134.00 ..	\$140.00 ..	\$152.00 ..	\$166.00

Modern Case also makes a variety of plywood ATA style cases.

Please call for a Modern Case catalog and pricing!

1-352-622-7700

- SKB-1904 Caster kit for SKB-19 cases, 8 lbs. \$109.95
- SKB-1916 Caster kit for SKB shock cases, 9 lbs. \$174.96
- SKB-19-AC1 ... Rack-mount nut and bolt kit (12 sets) \$12.95
- SKB-88 Attaché case with files, 10 lbs.
ID=4-1/2"Hx17"Wx12-3/4"D \$167.95
- SKB-88F As above, with dice foam, 10 lbs. \$167.95
- SKB-600 6 hole ATA microphone case, 9 lbs.
ID=10-1/2"Hx13"Wx11"D \$159.95
- SKB-1200 12 hole ATA microphone case, 13 lbs.
ID=10-1/2"Hx17"Wx13"D \$189.95
- SKB-1713 ATA equipment case, 11 lbs.
ID=10-1/2"Hx17"Wx13"D \$169.95
- SKB-1713F As above, with dice foam, 11 lbs. \$199.95
- SKB-2416 ATA equipment case, 16 lbs.
ID=13"Hx24"Wx16"D \$199.95
- SKB-19-P12 Pop-up Mixer Case, 26 lbs.
ID=8"Hx20-5/8"Wx23-1/2"D \$259.95

SKB Cases

SKB cases are stackable, lightweight, and made of a strong polyethylene material. The draw tight latch covers are gasket-sealed to keep out moisture and dirt. The mounting flange is close to the edge, which makes it easy to read the dials and LCD screens on your equipment. The snap-in hardware allows for easy replacement of mounting nuts if failure should occur. Cases come with mounting hardware. Overall rack dimensions for the SKB-19 cases are 21-1/2"W x 20-1/2"D with 17" of rack-mountable depth. The SKB-9 shock cases are 36"W x 27"D with 20" of rack-mountable depth.



SKB-1200



Model #/RU	Case wt.	Max. Load	Price
SKB-19-2U	13lbs.	25lbs.	\$179.95
SKB-19-4U	15lbs.	50lbs.	\$204.95
SKB-19-8U	21lbs.	75lbs.	\$299.95
SKB-19-10U	23lbs.	105lbs.	\$319.95
SKB-19-12U	26lbs.	105lbs.	\$339.95
SKB-9-08U	37lbs.	150lbs.	\$629.95
SKB-9-12U	48lbs.	150lbs.	\$695.95
SKB-9-16U	59lbs.	150lbs.	\$799.95

Star Case

Star Case specializes in both customized case interiors and exteriors. They work with numerous densities and grades of polyester and polyethylene foams, anti-statics, cubed foams, special cotton and synthetic material lining, hidden compartments, roll-out desk surfaces, roll-in ramps, and special partitioning devices for all types of audio, video, and computer magnetic media.



Contact Broadcasters General Store for a Star Case catalog and pricing.

Viking Cases

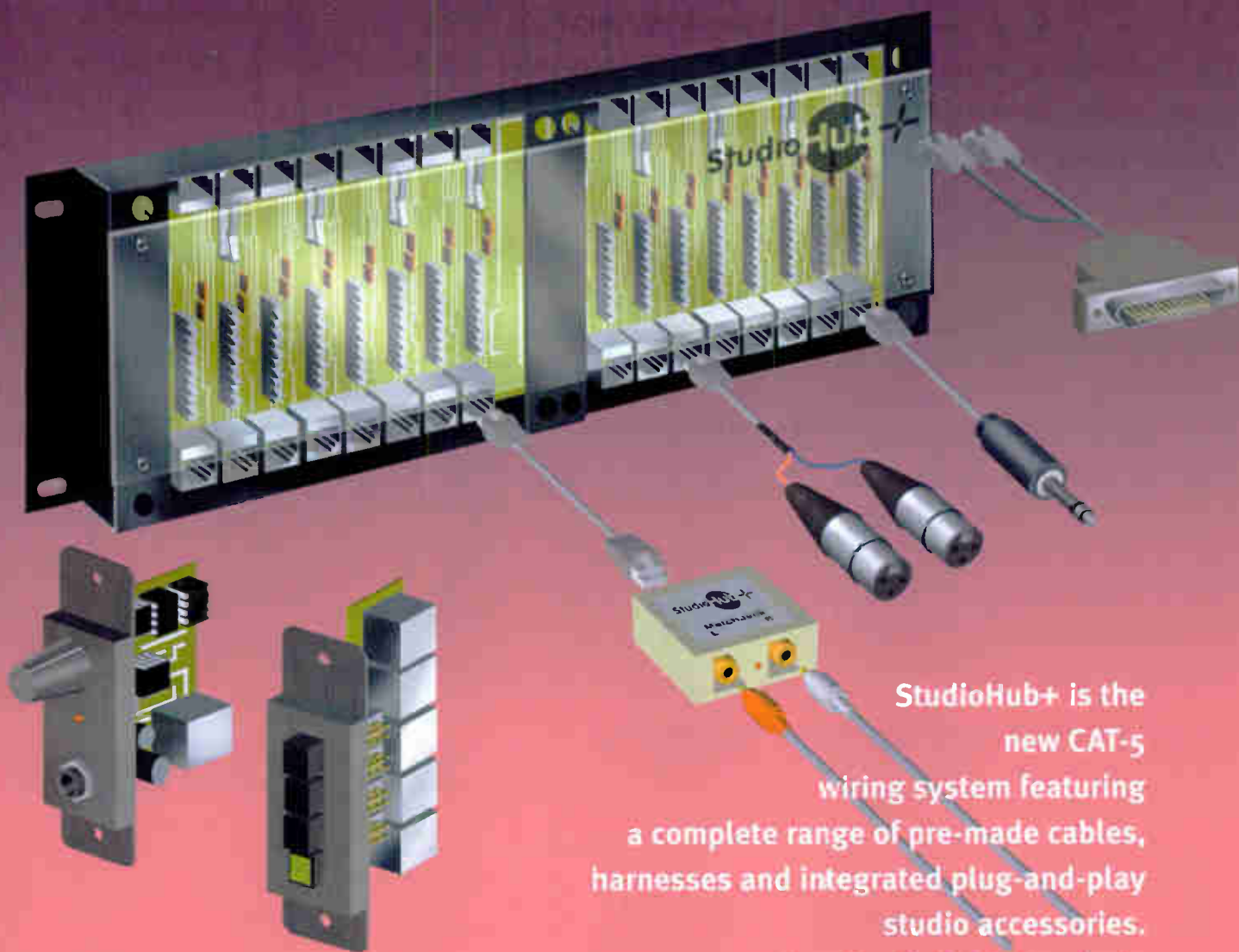
All Viking cases can be customized to fit your requirements and budget. Standard case designs available are: DJ cases, standard or shock mounted rack and double wide rack cases, pull over rack cases, and music cases. Some of the options are: rear rack rails, a variety of casters or rubber feet, locks, corner and fastener hardware, waterproofing and special foam. Normal turn around time of seven to ten working days with no additional charges for rush orders!



Call Broadcasters General Store for a Viking catalog and pricing.

The StudioHub+ Wiring Solution

Winner of both the prestigious BE Radio "Pick Hit" and Radio World "Cool Stuff" new product awards.



StudioHub+ is the new CAT-5 wiring system featuring a complete range of pre-made cables, harnesses and integrated plug-and-play studio accessories.

Use StudioHub+ for single or multi-studio, analog or digital buildouts.

Save time and money on your next installation.

StudioHub+

a product from RADIO SYSTEMS, INC.

601 Heron Drive • PO Box 458 • Bridgeport, NJ 08014-0458
856.467.8000 • fax 856.467.3044 • sales@radiosystems.com

studiohub.com



BE Radio



Radio Systems thanks the judges and editors of BE Radio and Radio World magazines for acknowledging that the simple ideas are still the best.



Now Updated for
Ethernet Compatibility



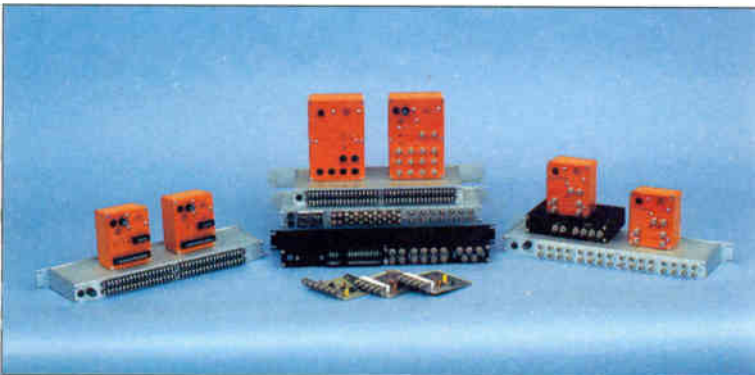
MASTER CLOCKS.....



For more than 30 Years, ESE's Master Clocks have been known for their accurate and cost effective methods of time keeping. Any of our ten Master Clocks can drive up to 100 of our Digital Displays with up to 4000 feet of cable. Our Digital Displays range from .4" to 4" LED characters that are viewable from 10 to 120 feet, perfect for Broadcasting and Recording Studios. Our Master Clocks lock to references such as GPS, WWV, Modem and Crystal.

ANALOG CLOCKS.....

Here are two types of our Analog Clocks that can be driven from any of our five Master Clocks. Our LX-5112 (12/24 Hr.) Analog Clock can self set it's hands to the correct time from three different time code inputs (SMPTE/EBU, ASCII or ESE). Alternate modes of operation allow the LX-5112 to synchronize with an alternating 12 or 24 volt impulse signal, or to act as a stand alone clock. We also carry the LX-168 "Sweep" Second Hand and the LX-162S "Stepping" Second Hand Analog Clocks, driven from Impulse Drivers.



DISTRIBUTION AMPLIFIERS.....

ESE's Audio and Video Distribution Amplifiers have been designed to create exact copies of an available input signal. Whether the signal is Audio, Video, S-VHS or HDTV, these Distribution Amplifiers deliver the highest in professional broadcast audio/video quality. We supply a variety of DA's ranging from 1 x 4 to quad 1 x 6's which can be set up to have 24 outputs in a single rack. We also carry 1 x 4 video & audio PC cards for Desktop applications.

AUDIO PRODUCTS.....

These products include two different "Digital" Audio Level Indicators. Each is available in rack mount panels with as many as six mounted on a single 1 3/4" panel. Other units include the highly popular ES-244 Audio Level Impedence Interface (which allows interfacing between "pro" and consumer equipment) and the ES-212 Phone Patch (which interfaces between an audio console and the telephone).



PRACTICAL SOLUTIONS SINCE 1971!

Auralex's™ Studiofoam™

Auralex's™ Studiofoam™ is wedge-cut, 60% more effective than other foams, and has a long lasting formulation that gives years of service. It passes California firecode and is far more flame retardant than other brands. Charcoal gray is usually in stock with many other colors available. (We would be happy to send a sample) All



Studiofoam panels are 2'x4' and ship in box quantities only. Auralex also makes Sonomatt™ which is a charcoal gray eggcrate panel. Sonomatt is recommended when budget is the primary concern because the panels are cut randomly, it makes the pattern hard to line up and not always square to the panel. Auralex supplies a variety of solutions for your sound control problems.

Description	Qty/Box	Coverage/sq. ft.	Price
Studiofoam 1"	20	160	\$239.00
Studiofoam 2"	12	96	\$209.00
Studiofoam 4"	6	48	\$209.00
Sonomatt 2" (2'x4')	12	96	\$179.00
Sonomatt 2" (4'x8')	2	64	\$119.00
Venus Bass Traps (2'x4')	2	16	\$239.00
LENRD Bass Traps 2' long	8	16 lin.ft.	\$259.00
Wedgies 2" (1'x1')	24	24	\$79.00
2"x2"x24" Corner-fills	36	72 lin. ft.	49.00
4"x4"x24" Corner-fills	9	18 lin. ft.	\$49.00
12"x12"x24" Corner-fills	1	2 lin. ft.	\$39.00
Tubetak Adhesive		Approx. 32	\$6.99
SheetBlok-10, 10'x4', black	1	40	\$139.99
SheetBlok-30, 30'x4', black	1	120	\$359.99
U-Boat Floaters Floor Decoupler	50	Approx. 70	\$107.50
MiniFuser, 12"x12" white paintable	12	12	\$167.88
T'Fuser, 2'x2', ceiling grid or wall	4	16	\$279.96

Studio Furnishings • Acoustical Panels

AVL Acoustical Panels

AVL systems designs, engineers and manufactures high performance acoustical products for any custom application; wall panels, acoustic baffles and ceilings. The wall and ceiling treatments help create an interior space that is truly an acoustically controlled environment by absorbing up to 99% of sound energy. For safety and insurance purposes, panels are rated Class A with a flame spread rating of 25 or less and a smoke developed rating of 65 or less. Acoustical panels in boxed sizes, available in five fabrics; Grey Mix, Crystal Blue, Wheat, Quartz, and Cherry Neutral.



..... Panels	Size	Total Sq. Ft.	Price
1" .. (4)	2' x 2'	16	\$133.00
..... (4)	2' x 4'	32	\$199.00
..... (4)	4' x 5'	80	\$390.00
..... (4)	4' x 10'	160	\$688.00
2" .. (2)	2' x 2'	8	\$83.00
..... (2)	2' x 4'	16	\$132.00
..... (2)	4' x 5'	40	\$270.00
..... (2)	4' x 10'	80	\$490.00

Call Broadcasters General Store for custom fabrics and panel pricing.

Middle Atlantic Acoustical Panels

Middle Atlantic Acoustical Panels are faced with 100% polyester fabric, which will not rip or crack like foam products and features resin-hardened edges which are beveled for aesthetics. AP series 2" thick panels offer the same sound absorbing rating as 4" thick foam panels. Fire rated class 1 (ASTM E-84) and easy to clean.



AP24X24	Specify G for Gray or B for Beige, 24"x24", 6lbs.	\$150.00
AP24X48	Specify G for Gray or B for Beige, 24"x48", 10lbs.	\$206.75
AP30X48	Specify G for Gray or B for Beige, 30"x48", 12lbs.	\$250.00
AP30X84	Specify G for Gray or B for Beige, 30"x84", 22lbs.	\$402.25

Studio Furnishings • Clocks & Timers

ESE ES362A

Master Up/Down Timer



The ESE ES362A master up/down timer is a four-digit, 100 minute timer featuring a serial time code output. It will drive as many as 100 remote serial slaves such as ES361A, ES364, ES366A, ES369A, or ES372A. Any of the ES362A's up, down, stop, reset, and preset functions can be activated from a front-mounted switch. The ES362A performs the same functions as the ES301A, with the added speed advantage of a leverwheel used for the pre-set functions.

LX362A	Master, Contemporary enclosure	\$535.00
ES362A	Master	\$435.00
ES361U	Slave 0.55" LED Display	\$230.00
ES364U	Slave 4" RED LED Display, wall mount	\$715.00
ES366U	Slave 1" LED Display	\$355.00
ES369U	Slave 2.3" LED Display	\$450.00
ES372U	Slave 0.4" RED LED Display, console mount	\$210.00

ESE ES112E & ES124E

Six-Digit Clocks



The ESE ES112E and the ES124E are solid state, CMOS, six-digit clocks featuring bright orange LED displays. Three simple controls, fast or slow advance and hold, make setting to the precise second easy.

ES112E	12 hour format	\$230.00
ES124E	24 hour format	\$230.00

ESE ES520 & LX520

60 Minute Timers



The ESE ES520 and LX520 are four-digit, 60 minute timers which have a serial time code output capable of driving 100 slaves.

ES520	\$185.00
LX520	\$285.00

Studio Furnishings • Clocks & Timers

Clocks/Timers (Continued)

ESE ES301A & ES302A

100 minute up/down timer

The ESE ES301A is a four-digit, 100 minute up/down timer featuring six push button control switches. Minutes and seconds can be advanced simultaneously or independently to pre-set count downs.



- ES301A \$325.00
- ES302A same as above with leverwheel preset \$420.00

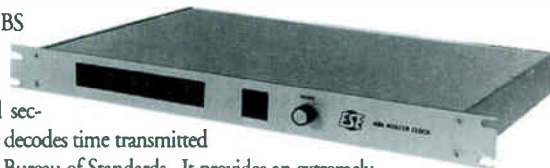
ESE Master Clocks

ESE Masters provide a means of keeping all time displays in the system in agreement through the use of a serial time code. Only one pair of wires is needed to distribute the time code to all remote serial input displays. An ESE master clock system can operate digital displays, clocks with sweep second hands, printers and also tell your computer what time it is.

The following clocks have many options available, call Broadcasters General Store for complete literature.

ESE ES180A NBS Master Clock

The ESE ES180A NBS is a 1U master clock with LED display of hours, minutes, and seconds. It receives and decodes time transmitted by the U.S. National Bureau of Standards. It provides an extremely accurate time reference, and is available with the following outputs: serial time code that drives 100 ES161A, 166A, 171A, 991A and 993A remote displays; a one pulse per second output; an RS-232C output at 1200 Baud, switchable to other rates; a speaker audio output; and an earphone jack.



- ES180A Specify time zone, 1U \$2,965.00
- ESAA1 Active antenna for ES 180 \$195.00

ESE ES185A GPS Master Clock & Time Code Generator

The ESE ES185A GPS (Global Positioning Satellite System) master clock and time code generator provides extremely accurate time and date information anywhere in the world. The unit features a one PPS accuracy of better than 130 nS and four serial time code outputs. Time and Julian Date information are received via the internal eight channel GPS receiver and displayed on the nine .56" yellow LED's. An indoor/outdoor antenna and 4-hour battery back-up are included while several optional features are also available.

- ES185A \$2,495.00

ESE ES192A & 194A Master Clocks

The ESE ES192A and 194A are micro-based master clocks. They provide the output needed to drive remote serial displays such as the ES161A, 166A, 171A, 991A or 993A



- ES192A 6 Digit .56" yellow LED display, 12 hour format \$270.00
- LX192A As above with "LX" enclosure \$370.00
- ES194A 6 Digit .56" yellow LED display, 24 hour format \$270.00
- LX194A As above with "LX" enclosure \$370.00

ESE ES160A Series

SMPTE, ESE, ASCII and 1PPS Outputs

The ESE ES160A master clock has an internal timebase and SMPTE, ESE, ASCII and 1PPS are standard outputs. Optional are serial BCD and CMOS compatible outputs. Without buffering it can drive 100 ES161A, 166A, 171A, 991A or 993A remote displays. The ES160A displays six digits of time information on a .56" LED and comes with battery and charger. The ESE TC is both TC89 (time only) and TC90 (time & date), available on separate outputs.



- ES160A 1 second per month accuracy, 1U \$1,755.00
- ES162A Impulse Driver for LX/ES162S or existing 12/24 VDC system, 1U \$460.00
- LX162S As above with "LX" enclosure \$255.00

ESE ES165 Impulse Clock Driver

The ESE ES165 impulse clock driver is designed to provide synchronized power to ES168 impulse clocks. It can drive up to 50 impulse clocks and will keep them running during a 12-hour power failure. For optimum accuracy, the ES165 should receive either a synchronizing pulse from the 1 PPS output of a master clock or an alternating 12 or 24 volt impulse from an existing impulse clock system. When operated without this pulse accuracy will be questionable.



- ES165 Impulse driver, stand alone or references master \$380.00
- LX168 As above with "LX" enclosure \$255.00

ESE ES150 Time Code Switchover Unit

The ESE ES150 is an Automatic Time Code Switchover unit. It is designed to provide a simple/automatic method for monitoring and switching between a Primary Master Clock and a Secondary Master Clock. The unit receives ESE time code from two different sources (A&B) and if a fault is detected from the Primary Clock (A), the ES150 automatically switches to the Back-up Clock (B). Once a fault is detected, the unit remains in the "B" state until manually reset. Front panel mounted LED's indicate status and a toggle switch allows manual switching between A and B. Additional "passively" switched I/O circuits include SMPTE/EBU, ASCII, 1 PPS and optionally available IRIG-B, 8 PPS, 1kHz, 10MHz and alternating 12 BDC Impulse Clock Drive.



- ES150 Primary/Secondary Master Clock Switcher System \$1,425.00

ESE 790 1000 Event Programmer

The ESE 790 is a sophisticated 32-channel clock featuring microprocessor-based programmability. 1,000 time events can be programmed, at random rather than chronologically, to occur every minute, hour, day or week. Multiple output channels (up to 32) can be activated simultaneously or individually.



- ES 790 \$2,745.00
- /1 ... w/1 Second per Month Master Clock Option & Serial Time Code Output +\$346.00

Studio Furnishings • Clocks/Timers

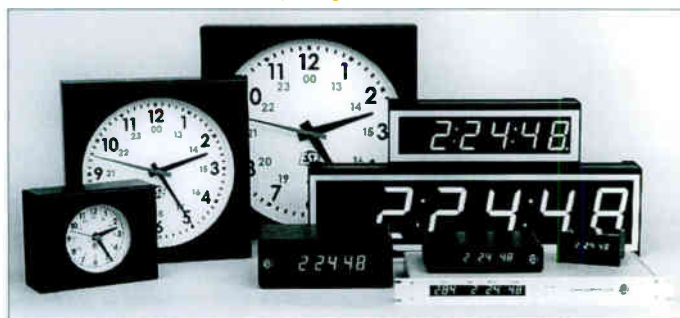
ESE 750E Series Programmer & Comparators



The ESE 750E Series of thumbwheel programmer/comparators is both economical and easy to use when programming 1 or 2 output events. A thumbwheel switch is set to compare the time information from an ESE clock or timer. Output occurs each time the switch setting agrees with the time display.

- ES 750E 6-Digit 12 Hour Clock with One 6-Digit Comparator \$435.00
- ES 751E 6-Digit 24 Hour Clock with One 6-Digit Comparator \$435.00
- ES 753E 6-Digit 12 Hour Clock with Two 4-Digit (hr & Min) Comparator \$525.00
- ES 754E 6-Digit 24 Hour Clock with Two 4-Digit (hr & Min) Comparator \$525.00
- ES 760E ES 754E with Battery/Charger and Parallel BCD Output \$875.00

ESE Remote Displays



These are the basic remote displays that receive serial time code from any ESE master clock. They can be configured with numerous options to fit your application.



Rack Mount Option \$50.00

Remote Displays that receive Serial Time Code

- ES161U Six digit .55" orange LED display, specify 12 or 24 hour format \$230.00
- LX161U As above with "LX" enclosure \$330.00
- ES167C Interface board translates parallel BCD into ESE serial time code \$210.00
- ES166U Six digit .55" LED display, specify 12 or 24 hour format, \$355.00
- LX166U As above with "LX" enclosure \$455.00
- ES171U Six digit .4" bright red LED display, console mount \$210.00
- ES991U Four digit 2" LED display, desk mount \$450.00
- ES993U Six digit 2" hr. & min., 1" sec. LED display, wall mount \$630.00
- ES941U Four digit 4" hr. & min., ESE Serial Slave, wall mount \$715.00
- ES943U Six digit 4" hr., min. & sec., ESE Serial Slave, wall mount \$875.00
- ES996U Six digit 2.3" hr., min. & sec., ESE Serial Slave, 15" wall mount \$685.00
- ES126U Time & Date .55" 12 digit ESE Serial Slave, 1U \$580.00
- ES127U Time & date 1" 12 digit ESE Serial Slave, 2U \$820.00

Self Setting Analog Clocks

- LX5105 5" Self-setting/impulse clock w ESE, SMPTE or ASCII input (sweep/step) \$575.00
- LX5112 As above but 12" \$575.00
- LX5116 As above but 16" \$675.00
- LX5212 Digital/Analog 12" Clock w/ESE, SMPE/EBU, IRIG-B & ASCII Input \$895.00

Radio Systems CT-6

Clocks & Up Timers

CT-6 Master



All Radio Systems CT-6 models function as both clocks and up timers. The "mode" button selects between functions without affecting the accuracy of the timer or time-of-day.

The CD-6 Desktop model (RS#10846) is only 3" high and 4" deep and offers a 6-digit, 1" high display. It also houses the optional master driver board which outputs the RS-485 serial time data to synchronize any CT-6 downstream. It is accurate to within ±1.5 seconds per month and accepts top-of-hour and 1Hz sync inputs and can drive Radio Systems' AC-12 analog clocks.

The CT-6 Thin model (RS#10842) is only 3" high and 1" deep and can be used as a "stick-on" clock/timer. All functions are fully removable.

The CT-6 Large models (RS#10844: 6-digit & RS#10869: 4-digit) offer a 2" display viewable from over 35" away. It can be slaved to the desktop model master or house the master driver board itself. Finally, the CT-6 Console model can be ordered for internal installation in Radio Systems consoles only and can be a clock/timer or a serial slave to a master clock.

CT-6 Dual Rack Mount



- CT-6 Desktop \$175.00
- CT-6 Thin \$155.00
- CT-6 Large \$395.00
- CT-6C Console \$155.00
- CT6 w/ Master Driver Board \$375.00
- GPS-MDB GPS Master Driver Board \$1,295.00
- AC-12 Clock \$95.00
- AMD-1 Impulse Clock Driver \$525.00

CT-6 Desktop Models



Analog Clock



GPS Antenna



Seth Thomas

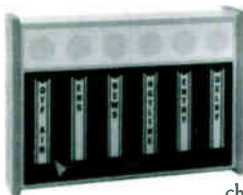
710 Contract 12Q Clocks



Seth Thomas 710 Contract 12Q has a molded case with textured finish, plastic lens, large easy to read dial graphics, red sweep second hand, quartz movement, and operates with one AA battery. Diameter 12"; depth: 2-3/4"

- 710 Brown \$38.00
- 712 Black \$38.00

Warnings/On-Air & Messaging



Enberg BA-6 monitor provides your control room with a complete view of important status information at a glance. Each of the six flashing indicators are capable of 3 modes of operation: telephone latching, auto reset, and manual reset. The BA-6 also has a DC output (150ma @

channel), designed

to drive the BA-6F remote monitor for duplicate displays in other studios.



Enberg BA-6 Monitor

BA-6	Includes 1 FN-6 and a set of labels	\$389.00
BA-6R	Remote	\$239.00
BA-6RX	Rack mount remote includes 1 FN-6	\$389.00
BA-6RXR	Rack mount remote only	\$119.00
FN-6	Phone module, detects ring on 2 separate lines	\$39.00
Labels	Standard label set (32 titles)- 2 set minimum	\$20.00
FH-6	Modification	\$20.00

Fidelipac On-Air Lights

Fidelipac 340 On Air
(specify language w/order) \$80.00

Fidelipac 340 REC .. Record \$80.00



Pro On-Air Lights L101

Pro Lights L101 Micro Series On Air Light,
24Vdc, White Lens \$35.00



Architectural Series On-Air Lights

PRO-AW	Flat wall mount with lens	\$149.00
PRO-AP	Extended mount with dual lens	\$169.00
PRO-AC	Ceiling mount with dual lens	\$169.00
Lens	Specify Record, On Air, or Mic Picture Only, Black or Red	\$15.00
Blank Lens .....	.....	\$13.00



COM3636 On-Air Light

COM3636 On Air Light, 110Vdc \$65.00
RB-1 25 Watt red red replacement bulb \$5.95

Broadcast Tools Alert Sentry 16



The Broadcast Tools Alert Sentry 16 provides a convenient way to monitor and log station alarms on DOS and Windows based PC's. The AS-16 is equipped with 16 optically isolated inputs, that may be programmed for wet or dry contacts. It also provides two separate relay contacts. The first closes for six seconds after any high to low or low to high input on any port. The second relay contact stays closed indefinitely while any of all alarms are present. The AS-16 is provided with software that may be run under DOS or Windows and allows up to sixteen alert and sixteen non-alert, 63 character descriptions to be displayed and logged. An alarm condition causes a highlighted cursor to flash beside the highlighted 63 character description. Input connections are via wire captive terminals. Logging provides the time, date and description of each event changing states or loss of communication with the computer and is logged to disk in ASCII form. The log data may be edited, printed and viewed using any text editor.

AS-16	\$349.00	RM2	(you need the rackmount with the AS-16) \$49.00
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Sine Systems MBC-1 Message Board Controller

The Sine Systems MBC-1 Message Board Controller is designed to replace all the various strobe lights and colored beacons that are a part of most every broadcast studio. It has 15 inputs for relay contact closures or logic level sources and a single serial output that connects to an electronic message display (typically an inexpensive 'Beta Brite' by AMS). Each input can trigger a unique display on the message board and multiple message boards can be connected to a single MBC-1. The messages are stored in the display so the same input can trigger different messages on different displays. A factory setup feature can program the display with a list of suggested messages. The display is fully programmable by the user and is not included.



MBC-1 Message Board Controller \$315.00

Wheelock TelStrobe®

Wheelock TelStrobe® is ideal for signaling your board operator when the telephone rings. Their solid-state design utilizes a xenon flash tube for brightness, long life and low power consumption. Strobes operate directly from telephone line ring voltage and low voltage AC or DC power supplies.

PS-11A-WPW	40-130V, 16-68Hz + 115 VAC, 70KCP	\$97.30
PS-33A-WPW	18-30VAC, /VDC, 25KCP	\$82.40

Computemp 5

Time of Day and Temperature

The Computemp 5 has continuously-alternating read-outs displaying both the time of day and temperature at the two locations you are monitoring. Its unique memory function keeps track of daily temperature extremes and alerts you to critical temperature changes.



CompuTemp 5 LED display, AC powered w/9V battery back-up \$99.95

Conex WJ-10 WeatherJack

Recording Barograph and Thermograph

The Conex WJ-10 WeatherJack is a recording barograph and thermograph for your PC. You can watch weather fronts roll across your PC. The WeatherJack is a simple, battery operated module that connects to your PC via RS-232. Display pressure and outside temperature graphs and trends on your PC desktop. It records 5 days of data even while your PC is off. Data can be archived on your hard drive and imported to a spreadsheet for analysis.

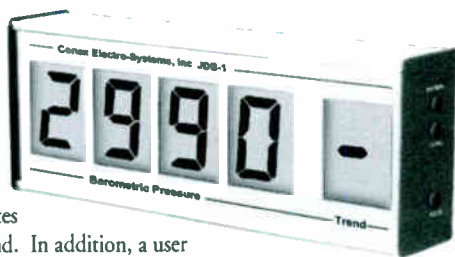


WJ-10 Recording Barograph and Thermograph \$129.00

Studio Furnishings • Warning/Messaging

Conex Jumbo Digital Barometer

The Conex Jumbo Digital Barometer shows the barometric pressure at a glance. Its large display allows it to be easily visible from across the room. A special display indicates a rising or falling pressure trend. In addition, a user switchable beeper unobtrusively tells when the pressure starts rising or falling, with a special series of beeps when the pressure starts dropping rapidly, indicating the possibility of an approaching storm. It is powered by a 9V Alkaline battery and includes a low battery indicator.



JDB-1 Digital Barometer \$159.00

RainWise Weather Station



The RainWise Weather Station provides an LED digital readout for time, indoor and outdoor temperature, barometric pressure, wind direction, wind speed, windchill, rainfall, and outdoor relative humidity. Its microprocessor computes and accumulates degree days heating and cooling throughout the year with maximums and minimums being provided for any desired period to the nearest hour, day and month.

WS 2000 Weather Station \$990.00
 WS-1000-CC Computer Capable Weather Station \$1,300.00

Studio Furnishings • Storage Racks

ABCO Racks

CD Racks, for standard jewel cases, (Denon cases are very snug)

- #70 Stringer holds 70 CDs, 5-1/2"Wx5-1/2"Dx69-1/2"L ... \$89.50
- #280 Lazy Susan holds 280 CDs, 6'H, 22" diameter ... \$401.50
- #560 Lazy Susan holds 560 CDs, 6'H, 27" diameter ... \$833.00

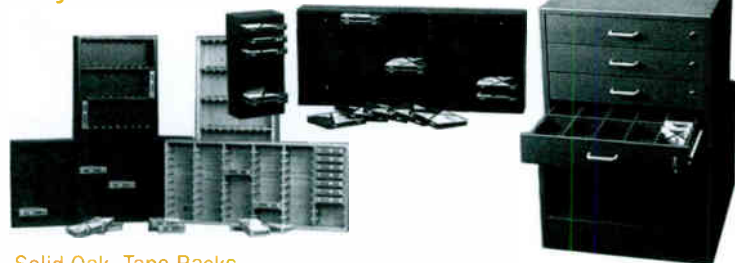


Atlantic

Atlantic makes a wide variety of economical modular tape storage units, this is a sample.

- 1209 ... CD tower, holds 35, steel wire/mat black, 5"Wx4"Dx22"H \$14.00
- 1229 ... Cassette tower, holds 25, steel wire/mat black \$14.00
- 1230 ... VHS tower, holds 17, steel wire/mat black \$14.00

Bryco



Solid Oak Tape Racks

- DR-60 or DRB-60 DATRAX-60 Solid Oak \$59.95
- CD-60 or CDB-60 CD-60 Solid or Black Oak \$64.95
- DSD-320 DAT Tape Storage Drawer, hold 320 tapes \$359.00

Plastic Line (Charcoal Grey Fleck)

- DRP-40 DATRAX-40 \$21.95
- V8-36 & Pro Video 8mm \$21.95
- CP-48 Cassette-48 \$21.95
- CDP-63 Compact Disc-63 \$21.95

Alps



Alps storage for: cassettes, DATs, carts, CDs, all sizes audio reels, magnetic film, 8mm, VHS, M2, Beta, 3/4", D1, D2, and 1" reels. Alps cabinets have a reputation for craftsmanship and durability in high use situations. If you compare cost per unit and density per square foot of floor space, you won't find a better value in media storage. All of Alps high density storage cabinets are 4' wide and 2' deep. Inserts come inside of every drawer and drawers can be



mixed to fit your needs. The standard colors are: white, almond and gray. Other color laminates are available at an additional cost. These cabinets are shipped fully assembled by common carrier, you may want to specify inside delivery.

ALPS CD/CD ROM Storage Cabinets:

- CBA605 Five drawer base unit, holds 2120 CD's, 42"H \$1,375.00
- CBA908 Eight drawer base unit, holds 3392 CD's, 60"H \$1,695.00
- CBU466 Six drawer top unit, holds 1836 CD's, 45"H \$1,630.00

ALPS Audio Storage

- CBA609 Nine drawer base unit, holds 2880 cassettes, 42"H \$1,560.00
- CBA913 Thirteen drawer base unit, holds 4160 cassettes, 60"H \$1,865.00
- CBU466 Six drawer top unit, holds 2016 cassettes, 45"H \$1,630.00

ALPS Video Cassette Storage

- CBA607 Seven drawer base unit, holds 812 w/o box, 42"H \$1,410.00
- CBA910 Ten drawer base unit, holds 1160 w/o box, 60"H \$1,675.00
- CBU444 Four drawer top unit, holds 672 w/o box, 45"H \$1,430.00
- CBA606 Six drawer base unit, holds 510 w/box, 42"H \$1,325.00
- CBA909 Nine drawer base unit, holds 765 w/box, 60"H \$1,590.00
- CBU444 Four drawer top unit, holds 512 w/box, 45"H \$1,430.00

Locks Per cabinet charge \$125.00

Please call for pricing on other tape storage units. This is just a sample of what's available.

Studio Furnishings • Storage Racks

Broadcasters General Store offers a wide selection of equipment rack made by numerous manufactures.

- Atlas/Soundolier
- Cabtron Systems, Inc.
- D.D.B. Unlimited
- HOME, Inc.
- Lowell
- Luxor
- Nigel B
- Winsted
- Zero Stantron

Middle Atlantic Racks

Narrow Design For Large-Scale Multi-Bay Jobs — 14 Gauge Steel Top/Bottom with 16 Gauge Steel Sides & 11 Gauge Front and Rear Rack Rails, Black Textured Powder Coat or Putty Finish Suffix Part # with "P". Fully Welded Construction 1000 lbs Capacity

Model	Panel Space	Depth	Width	Total Height	Lbs.	Price	Lbs.	Price
MRK-2426	42" (24 Space)	26 1/2"	22"	48 1/8"	95	\$649.00	105	\$722.25
MRK-2431	42" (24 Space)	31 1/2"	22"	48 1/8"	100	\$722.25	110	\$795.75
MRK-3726	64 3/4" (37 Space)	26 1/2"	22"	70 7/8"	116	\$691.25	138	\$778.00
MRK-3731	64 3/4" (37 Space)	31 1/2"	22"	70 7/8"	128	\$809.00	148	\$895.75
MRK-4026	70" (40 Space)	26 1/2"	22"	76 1/8"	130	\$709.00	155	\$804.50
MRK-4031	70" (40 Space)	31 1/2"	22"	76 1/8"	133	\$860.00	153	\$955.75
MRK-4426	77" (44 Space)	26 1/2"	22"	83 1/8"	135	\$769.00	155	\$869.00
MRK-4431	77" (44 Space)	31 1/2"	22"	83 1/8"	147	\$920.00	167	\$1,020.00

ERK Series — 16 Gauge Steel Top/Bottom and Sides, 11 Gauge Adjustable Rack Rails, with Keylocking Rear Door. 750 lbs. Capacity.

Model	Panel Space	Depth	Width	Total Height	Lbs.	Price	Lbs.	Price
ERK-1820	31 1/2" (18 Space)	20"	22 1/4"	35 5/8"	70	\$389.00	78	\$460.00
ERK-1825	31 1/2" (18 Space)	25"	22 1/4"	35 5/8"	76	\$435.75	86	\$506.75
ERK-2720	47 1/4" (27 Space)	20"	22 1/4"	51 3/8"	89	\$438.00	104	\$520.00
ERK-2725	47 1/4" (27 Space)	25"	22 1/4"	51 3/8"	107	\$473.50	122	\$555.75
ERK-3520	61 1/4" (35Space)	20"	22 1/4"	65 3/8"	102	\$478.00	122	\$566.75
ERK-3525	61 1/4" (35 Space)	25"	22 1/4"	65 3/8"	107	\$546.75	137	\$638.00
ERK-4020	70" (40Space)	20"	22 1/4"	74 1/8"	118	\$546.75	138	\$635.75
ERK-4025	70" (40 Space)	25"	22 1/4"	74 1/8"	138	\$569.00	158	\$662.25
ERK-4420	77" (44 Space)	20"	22 1/4"	81 1/8"	124	\$566.75	144	\$671.25
ERK-4425	77" (44 Space)	25"	22 1/4"	81 1/8"	144	\$624.50	164	\$729.00

Narrow Multi-Bay Racks Optimized for Video Cable Bundles — 14 Gauge Steel Top/Bottom, 16 Gauge Sides, & 11 Gauge Adjustable Rack Rail. 1000 lbs. Capacity.

Model	Panel Space	Depth	Width	Total Height	Lbs.	Price	Lbs.	Price
VRK-44-31H	77" (44 Space) Horizontal Bars	31 1/2"	22"	83 1/8"			170	\$1,222.25

Wide Multi-Bay Gangable Racks — 14 Gauge Steel Top/Bottom with 16 Gauge Steel Sides & 11 Gauge Front and Rear Rack Rails, Black Textured Powder Coat or Putty Finish Suffix Part # with "P". Stand Alone Units Include Side Panels. When ordering Stand Alone Specify Part # with "SA" ex: WRK-40SA-27. When ordering Less Rear Door Specify "LRD" ex: WRK-24-27LRD.

Model	Panel Space	Depth	Width	Total Height	lbs.	Price w/Door	Model	lbs.	Price Stand Alone w/ Rear Door
WRK-24-27	42" (24 Space)	25 3/4"	24 1/4"	48 1/8"	114	\$855.75	WRK-24SA-27	138	\$878.00
WRK-24-32	42" (24 Space)	30 3/4"	24 1/4"	48 1/8"	125	\$911.25	WRK-24SA-32	155	\$955.75
WRK-37-27	64 3/4" (37 Space)	25 3/4"	24 1/4"	70 7/8"	153	\$966.75	WRK-37SA-27	170	\$1,000.00
WRK-37-32	64 3/4" (37 Space)	30 3/4"	24 1/4"	70 7/8"	156	\$1,011.25	WRK-37SA-32	180	\$1,066.75
WRK-40-27	70" (40 Space)	25 3/4"	24 1/4"	76 1/8"	160	\$1,033.50	WRK-40SA-27	178	\$1,066.75
WRK-40-32	70" (40 Space)	30 3/4"	24 1/4"	76 1/8"	165	\$1,055.75	WRK-40SA-32	180	\$1,089.00
WRK-44-27	77" (44 Space)	25 3/4"	24 1/4"	83 1/8"	172	\$1066.75	WRK-44SA-27	215	1,100.00
WRK-44-32	77" (44 Space)	30 3/4"	24 1/4"	83 1/8"	181	\$1,100.00	WRK-44SA-32	232	\$1,189.00



Raxxess KAR



Raxxess GAR



RaXXess Racks

Gangable Audio Racks — 12 Gauge Steel Top/Bottom & 14 Gauge Steel Side Posts, with Front and Rear 11 Gauge Adjustable Rack Rail, Black Powder Coat

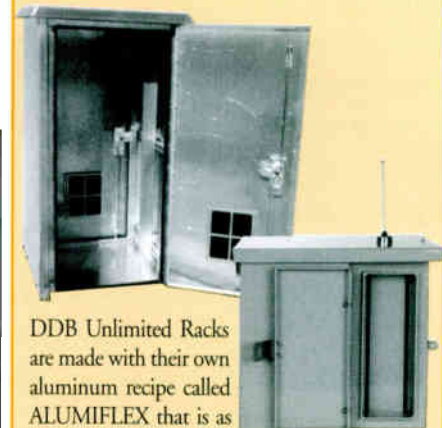
Model	Panel Space	Depth	Width	Total Height	Lbs.	Price
GAR-35-25	35 Space 61.25"	25"	24"	68.50"	100	\$779.95
GAR-35-30	35 Space	30"	24"	68.50"	110	\$809.95
GAR-40-25	40 Space 70"	25"	24"	75.75"	112	\$819.95
GAR-40-30	40 Space	30"	24"	75.75"	119	\$849.95
GAR-44-25	44 Space 77"	25"	24"	82.75"	120	\$869.95
GAR-44-30	44 Space	30"	24"	82.75"	140	\$899.95

Enclosed Audio Racks — 16 Gauge Steel Welded Construction with Fully Adjustable 11 Gauge Front Rack Rails, Black Powder Coat

Model	Panel Space	Depth	Width	Total Height	Lbs.	Price
KAR-18-22	18 Space 32"	22"	21.875"	37"	60	\$419.95
KAR-18-28	18 Space	28"	21.875"	37"	70	\$439.95
KAR-24-22	24 Space 42"	22"	21.875"	47"	80	\$449.95
KAR-24-28	24 Space	28"	21.875"	47"	90	\$479.95
KAR-35-22	35 Space 61.25"	22"	21.875"	66.25"	130	\$489.95
KAR-35-28	35 Space	28"	21.875"	66.25"	140	\$519.95
KAR-44-22	44 Space 77"	22"	21.875"	82"	160	\$549.95
KAR-44-28	44 Space	28"	21.875"	82"	170	\$579.95

DDB Unlimited Racks

Outdoor Enclosures



DDB Unlimited Racks are made with their own aluminum recipe called ALUMIFLEX that is as rigid as steel but far lighter. DDB Unlimited manufactures all types of indoor and outdoor enclosures.

Studio Furnishings • Storage Racks

Middle Atlantic & RaXxesses Racks



Studio Racks	Middle Atlantic — Oak				RaXxess — Choose from Maple with Maple Edging or Ebony Fleck with Oak Edging							
	18" Deep	lbs.	Price		15.875" Deep	lbs.	Price	1" Deep	lbs.	Price		
7" (4 Space)	—	—	—		ERK4	18	\$149.95	Sloped Racks 18" to 15" / ERK16 14.25" / ERK20 13.75" / ERK24 at Top, includes Casters				
14" (8 Space)	OBRK8	36	\$169.00		ERK8	29	\$179.95					
21" (12 Space)	OBRK12	43	\$183.50		ERK12	36	\$199.95					
28" (16 Space)	OBRK16	49	\$216.25	OSR16	69	\$304.50	ERK16	42	\$219.95	ERK16SL	45	\$279.95
35" (20 Space)	OBRK20	56	\$237.50	—	—	—	ERK20	48	\$209.95	ERK20SL	52	\$299.95
42" (24 Space)	—	—	—	OSR24	87	\$344.50	—	—	—	ERK24SL	55	\$319.95
Front Locking Casters Set	RKW	4	\$44.50		CAS/L	5	\$44.50					

	Middle Atlantic				RaXxess				
	16" Deep	lbs.	Price	18" Deep	lbs.	Price	15.75" Deep	lbs.	Price
3 1/2" (2 Space)	RK2	20	\$100.00	—	—	—	—	—	—
7" (4 Space)	RK4	23	\$106.75	—	—	—	ER4	15	\$95.95
14" (8 Space)	RK8	27	\$130.50	BRK8	27	\$139.25	ER8	24	\$114.95
21" (12 Space)	RK12	34	\$137.00	BRK12	31	\$150.00	ER12	28	\$124.95
28" (16 Space)	RK16	38	\$148.00	BRK16	41	\$158.75	ER16	32	\$134.95
35" (20 Space)	RK20	44	\$163.25	BRK20	46	\$178.00	ER20	38	\$144.95
Slant: 16.5" to 12.625" at the Top — 10U	—	—	—	—	—	—	ERS10	27	\$149.95
Front Locking Casters Set	RKW	4	\$44.50	RKW	4	\$44.50	CAS/L	5	\$44.50

Optional Plexiglass Doors are available for the above units. Please call for information and pricing.

Optional Plexiglass Doors are available for the above units. Please call for information and pricing.



RM-CPU

Middle Atlantic Media Storage			Brushed Black Anodized Part#/Price	Textured Black Powder Coat Part#/Price
Fits	Racking Height	Depth		
40 Compact Discs	7" (4 Spaces)	5 3/4"	CD \$102.25	TCD \$87.00
25 Audio Cassettes	5 3/4" (3 Spaces)	3"	CS \$913.50	—
27 DAT Tapes	5 3/4" (3 Spaces)	2 3/16"	DAT \$91.50	—
14 VHS Tapes	8 3/4" (5 Spaces)	4 1/8"	VHS \$108.75	TVHS \$89.25
13 VHS in Large Padded Cases	10 1/2" (6 Spaces)	5 9/16"	VHS-L \$122.25	—
Laser Discs, LP's Binders	14" (8 Spaces)	12 3/16"	LP \$193.50	—
28 DVD/DIVX Discs	7" (4 Spaces)	5 1/2"	DVD \$126.25	—
6 CD Jewel Cases Only	1 3/4" (1 Space)	5 1/2"	CD-1 \$48.00	—



Media Storage Rack

Middle Atlantic Rackmount Computer Chassis & Accessories			
Part#	Description	Racking Height	Price
RM-CPU-ATX	ATX style Rackmount Computer Chassis	7" (4 Spaces)	\$655.50
SL-24	24" extension slide kit for RM-CPU	—	\$189.00
RM-MM	14" to 17" Computer Monitor Rackmount — Inside Dimensions: 16 1/2" W x 14 1/2" D x 15 3/8" H	15 3/4" (9 Spaces)	\$433.50
KB-SS	Keyboard Sliding Shelf for std. small-pattern keyboards.	1 3/4" (1 Space)	\$185.00
RM-KB	Rackmount Computer Keyboard includes std. AT style keyboard w/serial pointing device.	1 3/4" (1 Space)	\$533.50



RM-KB

RM-CPU-ATX

Drawers	Middle Atlantic			RaXxess		
		Black Powder Coat		Black Textured Enamel		
3 1/2" (2 Space)	UD2	\$117.50		ESD2	\$87.95	
5 1/4" (3 Space)	UD3	\$125.00		ESD3	\$95.95	
7" (4 Space)	UD4	\$139.25		ESD4	\$107.95	
Latching Drawers	Brushed Black & Anodized Finish	Textured Black Finish	Black Textured Enamel Finish			
3 1/2" (2 Space)	D2	\$144.50	TD2	\$139.25	SDR2	\$125.95
5 1/4" (3 Space)	D3	\$162.25	TD3	\$153.00	SDR3	\$143.95
7" (4 Space)	D4	\$173.50	TD4	\$161.00	SDR4	\$159.95
8 1/4" (5 Spaces)	D5	\$193.50	TD5	\$183.75	—	—
Lock Boxes	Middle Atlantic Black Powder Coat	RaXxess Black Baked Enamel				
5 1/4" (3 Space)	LBX3	9" Deep	\$82.75	RKV-3	9" Deep	\$79.95
7" (4 Space)	LBX4	9" Deep	\$91.50	RKV-4	9" Deep	\$89.95



Latching Drawers

Lock Boxes

Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com

Studio Furnishings • Storage Racks

Middle Atlantic & RaXXess

This is just a sampling of items available.
Please call for information and pricing on panels not shown!

Middle Atlantic HBL-3

Middle Atlantic EB-3

Flat Blank Panels Steel 14 Gauge				
	Middle Atlantic		RaXXess	
	Economy Black Powder Coat		Black Brushed & Anodized	
13/4" (1 Space)	FEB1	\$7.50	SFT1	\$6.95
3 1/2" (2 Space)	FEB2	\$9.75	SFT2	\$8.95
5 1/4" (3 Space)	FEB3	\$13.00	SFT3	\$10.95
7" (4 Space)	FEB4	\$16.00	SFT4	\$12.95
8 3/4" (5 Space)	FEB5	\$19.00	—	—
10 1/2" (6 Space)	FEB6	\$21.75	—	—



Middle Atlantic Fan Panels - 5 1/4" (3 Space)				
		Anodized	Textured	
Accommodates	16 Gauge Flanged Aluminum			
One 4 1/2" Fan	FP1	\$36.50	TFP1	\$31.00
Two 4 1/2" Fans	FP2	\$40.75	TFP2	\$33.25
Three 4 1/2" Fans	FP3	\$43.00	TFP3	\$35.50
Filter Kit 18-gauge perforated steel, acts as a washable filter 1" thick. Mounts directly over fans, 3U	Filter	\$36.75		

Flat Blank Panels Aluminum 11 Gauge						
	Middle Atlantic		RaXXess			
	Black Powder Coat	Black Brushed & Anodized	Black Brushed & Anodized			
13/4" (1 Space)	PHBL1	\$10.50	HBL1	\$17.50	AFT1	\$15.95
3 1/2" (2 Space)	PHBL2	\$13.50	HBL2	\$22.00	AFT2	\$18.95
5 1/4" (3 Space)	PHBL3	\$16.75	HBL3	\$31.00	AFT3	\$27.95
7" (4 Space)	PHBL4	\$22.50	HBL4	\$36.75	AFT4	\$34.95

Flanged Blank Panels Steel 16 Gauge						
	Middle Atlantic			RaXXess		
	Economy Black Powder Coat	Textured Black Powder Coat		Textured Black Powder Coat		
13/4" (1 Space)	EB1	\$8.50	SB1	\$12.20	SFG1	\$11.95
3 1/2" (2 Space)	EB2	\$11.25	SB2	\$16.00	SFG2	\$13.95
5 1/4" (3 Space)	EB3	\$13.50	SB3	\$19.50	SFG3	\$15.95
7" (4 Space)	EB4	\$17.00	SB4	\$20.50	SFG4	\$17.95
8 3/4" (5 Space)	EB5	\$20.00	SB5	\$24.75	—	—
10 1/2" (6 Space)	EB6	\$23.50	SB6	\$25.75	—	—

Flanged Blank Panels Aluminum 16 Gauge						
	Middle Atlantic		RaXXess			
	Black Powder Coat	Black Brushed & Anodized	Black Brushed & Anodized			
13/4" (1 Space)	PBL1	\$9.00	BL1	\$17.50	AFG1	\$16.95
3 1/2" (2 Space)	PBL2	\$11.25	BL2	\$20.75	AFG2	\$19.95
5 1/4" (3 Space)	PBL3	\$16.00	BL3	\$25.75	AFG3	\$24.95
7" (4 Space)	PBL4	\$18.00	BL4	\$28.75	AFG4	\$27.95

Middle Atlantic MD-KB



Middle Atlantic MD-KB Computer Keyboard Tray is designed for under-desk use. The computer keyboard tray is equipped with a padded wrist support and built-in mouse tray that can be pulled out to either side and retracts out-of-the-way when not in use. All mounting hardware included.

MD-KB 71 1/8" Wide by 14 3/8" Deep, 9lbs. \$126.25

1-352-622-7700



Vented Access Panels



Access Panels

Access Panels — are perfect for those situations where access to the rear of connector panels is required. Captive thumbscrews require no tools and will not get lost.

	Middle Atlantic - Black Powder Coat Aluminum		RaXXess - Hinged Vent Black Baked Enamel	
3 1/2" (2 Space)	AP-2	\$33.50	SB1	\$12.00
7" (4 Space)	AP-4	\$39.50	SB2	\$15.50
10 1/2" (6 Space)	AP-6	\$48.00	SB3	\$19.00

RaXXess Security SEC-VENT



Locking Security LSC

Medical SCP-2

Middle Atlantic & RaXXess Security Covers

	Permanent Plexiglass 1"O		Hinged Smoked-grey Plexiglass w/lock 1 1/2"D		Hinged See-Through Plexiglass w/lock 1"D		Hinged Steel Door w/lock 1"D		Regular Perforation 1"D		Fine Perforation 1"D		Solid Cover 1"O	
13/4" (1 Space)	SL1	\$29.00	—	—	—	—	—	—	S1 SEC1	\$27.75	SF1 PSC1	\$27.75	SECS1	\$23.00
3 1/2" (2 Space)	SL2	\$31.25	SECL2	\$54.50	LSCP2	\$54.95	LSC2	\$44.95	S2 SEC2	\$31.00	SF2 PSC2	\$31.00	SECS2	\$25.75
5 1/4" (3 Space)	SL3	\$33.50	SECL3	\$63.50	—	—	—	—	S3 SEC3	\$33.75	SF3 PSC3	\$33.75	SECS3	\$28.75
7" (4 Space)	—	—	SECL4	\$89.50	LSCP4	\$61.95	LSC4	\$49.95	S4	\$36.25	SF4	\$36.00	SECS4	\$33.00

Middle Atlantic Rack Rails

Is Tapped for 10-32 Threads (Suited for 19 1/8" Wide Opening)

	Black Powder Coat/Pair	
3 1/2" (2 Space)	RR2	\$7.00
7" (4 Space)	RR4	\$11.25
10 1/2" (6 Space)	RRF6	\$16.00
14" (8 Space)	RRF8	\$18.50
17 1/2" (10 Space)	RRF10	\$22.00
21" (12 Space)	RRF12	\$26.50
24 1/2" (14 Space)	RRF14	\$29.00
28" (16 Space)	RRF16	\$32.75
31 1/2" (18 Space)	RRF18	\$35.75
36 3/4" (21 Space)	RRF21	\$40.50
47 1/4" (27 Space)	RRF27	\$49.75
78 3/4" (45 Space)	RRF45	\$80.75

Studio Furnishings • Storage Racks

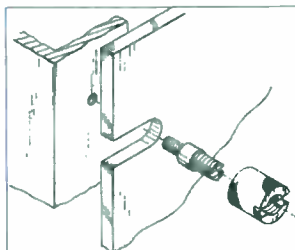
Raxxess & Middle Atlantic Hardware



Hardware 10-32 x .75"

	Middle Atlantic		RaXxess	
Captive Washer Screw - Integrated washer head screw saves time on installs!				
Qty. 100	HW100	\$26.25	CPSW100	\$23.95
Qty. 500	HW500 (with plastic jar)	\$100.00	CPSW500 (with fanny pack)	\$79.95
Phillips Truss Head - with Black Nylon Washers				
Qty. 25	HPS	\$5.75	PTSW25	\$5.95
Qty. 50	—	—	PTSW50	\$9.95
Qty. 100	HP	\$19.75	PTSW100	\$19.95
Security Screw - Star or Pin Torx Head with Black Nylon Washers				
Qty. 50	HTX	\$15.00	PNTX	\$12.95
	Bit	TBIT	PNTX-Bit	\$9.95
Square Drive Screw - Square Head with Black Nylon Washers				
Qty. 100	HS	\$25.50	SDS	\$25.95
	Bit	SBIT	SDB	\$2.00
Shoulder Washers - use with stock washers to prevent ground looping!				
Qty. 100	SW	\$8.50	SHWS	\$7.95
12/24 x 5/8" Hardware - used in telecommunications and data. They are heat treated to prevent head stripping. Black oxide finished with nylon washers.				
Qty. 100	HP-24	\$15.75	—	—

Rack Release Systems

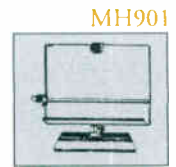
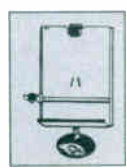


Rack Release Systems developed a quick-release system designed to replace the phillips head screw normally used in most standard racks. To install Rack Release, follow these steps: 1. Identify (4) each double-threaded studs, nylon washers, and slotted caps. 2. With a coin or a flat-head screwdriver, screw the non-slotted end of the four studs into the rack. 3. Slide your equipment over the four studs. 4. Place a nylon washer over each stud end. 5. Screw a slotted cap over the slotted end of each stud and tighten by hand. If needed tighten with a coin or flat head screwdriver. Pretty neat!

10/32 Rack Release Pack \$4.95

Luxo Copy Holders

MH801 Made of durable plastic and special matte surface to reduce glare. Easy to use linefinder opens 90°. Load Capacity 1 lb. Lt. Gray
 MH801 \$100.00
 MH805 Same as above with a load capacity of 4 lbs.
 MH805 \$120.00
 MH806 Same as MH805 with easel expanding to 12"x16".
 MH806 \$145.00
 MH901 12"x16" Data Size Desktop Copyholder Load Capacity of 4lbs. Lt. Gray
 MH901 \$105.00



Nigel B Furniture



QuikLox Table Rack Stand

RS-952 10-Space Table Top Rack Stand • H 25.2" x W 21.6" • Leg depth 17.7" • Tube size 1.5" • Weight capacity 250 lb • Weight 12.2 lbs.
 RS-952 \$99.95

Both Assemble with a few hex screws and supplied driver

RS-957 10-Space Table Top Rack Stand • H 18.7" x W 21.2" • Leg depth 15.1" • Weight capacity 150 lb • Weight 6.6 lbs.
 RS-957 \$69.95



Ac-cetera LUMIN-EZE

Clamp-On Work Lights



LE-Auto Hinge Style Extension w/Cigarette Lighter Adapter .. \$29.95
 LE-Min Hinge Style Extension, w/UL Approved 12V PS \$34.95
 LE-2S Smooth Thin Black Gooseneck w/on-off Switch \$39.95

See Surge & Rackmount Lighting on Pages 114-115!

Studio Furnishings



Arrakis

The NEW Arrakis Flex-Studio is a complete, modular furniture package that can be assembled in dozens of different ways to meet nearly any studio design. It can be assembled left or right handed, as well as in ALL of our standard configurations :

'Short L', 'Long L', and 'Unbalanced U'. All pedestal returns have front equipment racks and rear access doors. The table pedestals have BOTH inside and outside access doors. The tabletop equipment pod provides rack mount space for tabletop equipment. A 60 inch interview table is standard and designed to be placed on any 60+ inch outer edge of the studio. The console table is 36 inches deep and 45 inches wide to accommodate most consoles. A 37 inch inside width, console spanning, copy stand completes the package. Modulux is the #1 selling studio furniture system with nearly 2000 studios sold worldwide. As a standard Modulux product, the NEW Flex-Studio features solid oak trim, high pressure laminate table surfaces, complete laminate finish inside and out, ease of assembly, and delivery from STOCK !!! Standard colors are medium gray tabletops, light beige side panels, and red oak trim (custom configured Modulux furniture packages are also available)

MOD-FLEX-1 \$4,995.00



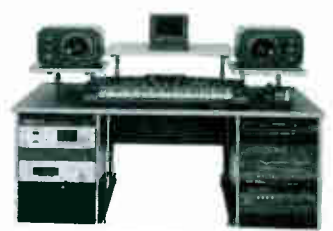
Nigel B Furniture



Studio Technology's Custom Furniture



RaXXess



Middle Atlantic



1-352-622-7700

Telephone

CircuitWerkes CP-2

Call Progress Decoder

The CircuitWerkes CP-2 is a call progress decoder for use with some PBX systems and a few telephone companies that do not provide the required DC signaling for your telephone autocouplers. Autocouplers need a drop or reversal of the voltage on a telephone line in order to sense that the call is over and hang up. The CP-2 listens to the phone line for dial tone or busy. An adjustable delay-before-disconnect, prevents the decoder from accidentally disconnecting a call. The CP-2 is also ideal for interfacing older 1A2 key systems to DID lines.



CP-2 Call Progress Decoder \$167.00

Comrex LXT/R

Single Line Extender

The Comrex LXT/R one line frequency extender system works with a standard dial telephone line or a cellular telephone to pass 250Hz of additional low frequencies. This results in more natural sounding audio, eliminating the "riny" telephone sound. The LXT/R combines the function of an encoder and a decoder - the choice is made by pushing a single switch. (An LXT/R is required at both the sending and receiving ends of the phone line.)



LXT/R Single Line Extender \$850.00

Inovonics PBX

Telephone Line Eliminator

The Inovonics "PBX", is a telephone line "eliminator". It allows up to seven modems, remote controls, alarms or any other dial-up devices at a remote transmitter site to share a single telco line. Incoming calls are routed using touch-tone commands, and outgoing calls are handled on a first-come basis.



PBX \$420.00

JK Audio Tap-1

Telephone Audio & Power Interface

The JK Audio Tap-1, telephone audio and power interface, separates voice into transmit and receive signals for recording or service simulation. It powers telephone with -48VDC, and provides a 2-wire to 4-wire hybrid. Tap-1 allows clean voice recordings with a "telephone bandwidth" sound without phone line noise. Hybrid null adjustment optimizes transmit and receive separation to >50dB. Put two units back to back for TV or film studio recording.



TAP-1 \$245.00

Telephone • Cellular

Conex CJ-20 CellJack

Cellular Phone Interface

The Conex CJ-20 CellJack is a compact cell-phone adapter that allows easy remote broadcasts via your cellular phone. The CellJack provides a transformer isolated and balanced XLR input with switchable high/low gain for connection to either an external mixer or a standard broadcast dynamic microphone. The stereo headset jack allows monitoring of the cell-phone audio and, when an external radio is plugged into the tuner input jack, its audio is fed to one side of the headset. Includes the interconnect cable for the Motorola "bag-phone" C.



CJ-20 CellJack Cellular Phone Interface . \$245.00

Conex CJ-30 CellJack II

Cellular Phone Mixer

The Conex CellJack II is the newest addition to the Conex line of telephone interface products. Like the original CellJack, the CellJack II is designed to interface to Motorola brand bag-type cell phones. The CellJack II incorporates a 3 input mixer with LED level indicator. Two of the inputs are either mic or line level and the third is an auxiliary line level input. Also featured on the CellJack II are two headphone jacks each with its own level control. Features include: plug-in integrated circuits • XLR jacks for microphone/line inputs • tuner input for off-air monitoring • tape/aux input • send and receive level controls • 2 headphone jacks • level indicating LED's • and interconnect cable included.



CJ-30 CellJack2 Cellular Phone Mixer \$349.00

Conex FlipJack FJ-10

FlipJack Cellular Phone Mixer

The Conex FlipJack FJ-10 is a cellular interface for pocket cell phones. The FlipJack is designed to interface to the Motorola brand StarTac cell phones or other cell phones with a 2.5mm hands-free adapter jack. It has two XLR microphone inputs, one of which can be switched to accept a balanced line level input. It also has a headphone output with a separate level control. The headphone can monitor either the cell-phone audio or an off-air signal via an external tuner input. Also included is a belt clip for hands free operation. Features include: front panel LED level and low battery indicator • balanced line-level output • interconnect cable provided • transformer isolated I/Os • operates from it's own 9V alkaline battery • and an adapter is available for driving a dial-up telephone if cell connection is not available.



FJ-10 FlipJack Cellular Phone Mixer ... \$289.00



Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com



AETA HIFI Scoop 3



ISDN Codec
The AETA HIFI Scoop 3 features ISDN • supports G.711, G.722, J.52, ISO/MPEG Layer II, Layer III • bit rates up to 384kbps • full duplex operation • mono, dual/mono, stereo, joint stereo • full audio monitoring • aux data channel • alarm & remote I/O • optional AES/EBU interface • and also available in a “leased line” version, 2U. The SRMII rack mount version of the Scoop 3 is less battery backup, front panel mixer controls and carrying case. Input and output jacks are located on rear, 2U.

HFS32	2B Channel	\$5,200.00
HFS34	4B Channel	\$5,700.00
HFS36	6B Channel	\$6,200.00
SRMII	Rackmount Version	\$3,895.00

AETA Scoop Reporter II

POTS & ISDN Codec

The AETA Scoop Reporter II combines POTS, ISDN, and internal battery backup in a portable unit. Features include: supports G.711, G.722, ISO/MPEG Layer II and J.52 • compatible with the universal CELP algorithm • send and receive 20kHz audio at 128Kbs • send and receive 7.5kHz audio with POTS • full duplex operation • fast 60MIPS DSP operation • 99 user programmable autodial presets • built-in 3 channel mixer • two microphones and one line level input • balanced XLR output for studio producer IFB and mix-minus feeds • local program return feed with balance adjust • internal NT-1 adapter • operating voltages from 85 to 265 volts at 47 to 440Hz • internal battery operation (2 hours typical, alkaline “D” batteries) • Lexan® front panel finish • and rugged padded carry case fits into overhead compartment.



SRII		\$4,250.00
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Comrex DX200 Audio Codec



The Comrex DX200 Music Line is designed to provide the lowest cost solution for high quality stereo audio on digital phone lines. The DX200 uses ISO/

MPEG Layer II coding to send up to 20kHz stereo audio over digital transmission paths as low as 112kbps. The DX200 is a “second generation” codec which implements the recent updates to the Layer II algorithm, including a choice of input sampling rates at 24, 32, and 48kHz. The DX200 encoder may be user-configured for a variety of output data rates and for stereo, joint stereo, dual mono or mono operation. It supports data transmission rates up to 384kbps. The G.722 algorithm is also included for low delay 7.5 or 15kHz audio. Offering a wide variety of configurations, the DX200 is compatible with almost every mono or stereo codec on the market today.

DX200	Audio Codec	\$3,000.00
DX200RC	Remote Control Option	\$300.00

Comrex DXP.1 & DXR.1 Audio Codecs



Like the Nexus, the Comrex DXR.1 and DXP.1 codecs provide a full 15kHz bidirectional feed on 112/128kbps circuits and use the G.722 standard for 7.5kHz at 56/64kbps. Since they have very little processing delay, these codecs are the best choice for live programming such as talk, news

and sports, where real-time cueback is essential. The DXR.1 is a rackmount unit while the DXP.1 is compact and portable. An external DSU/CSU or terminal adapter is needed to interface these codecs to your data circuit. DB25 cable included.

DXP.1	Portable Audio Codec, 4lbs.	\$1,500.00
DXR.1	Rackmount Audio Codec, 9lbs.	\$1,500.00
V.35 Cable	DB-25 to V.35 Cable	\$40.00

Comrex Nexus ISDN Codec



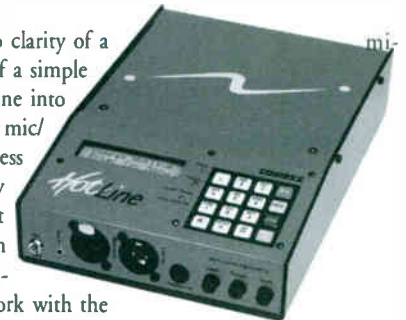
The Comrex Nexus has everything you need for sending great sounding audio over ISDN. Audio codec, terminal adapter and NT1 are integrated into a rugged, 3 pound, easy-to-use package. The Nexus provides low delay 15kHz bidirectional audio on 112/128kbps circuits such as BRI ISDN. It also provides standard G.722 7.5kHz audio

at transmission rates of 56/64kbps. Audio input is mic or line and the output is a variable mix of codec return and local program. For complete digital communications, the Nexus supports ancillary data to provide a computer link between send and receive sites.

NEXUS	ISDN Codec with TA/NT1, portable, 6lbs.	\$2,300.00
NEXUS	ISDN Codec with TA/NT1, rackmount, 11lbs.	\$2,500.00

Comrex HotLine POTS Codec

The Comrex HotLine has the audio clarity of a crowave link and the convenience of a simple telephone call. Just plug the HotLine into your client’s phone jack, connect your mic/headphone (or the output of a wireless receiver), press the quick dial memory button for the studio (it even has last number redial memory) and you’re on the air. Comrex’s adaptive audio compression algorithm is designed to work with the lower speed connections associated with POTS lines. At 12kbps (worst case) it will deliver 20Hz-4.5kHz response—better than a single line frequency extender. At 33.6kbps (best case) it delivers 20Hz-10kHz response—microwave over the phone!!! It also offers an extra input and output for house feeds.



HotLine	Portable, 6lbs.	\$2,800.00
HotLine	Rackmount, 11lbs.	\$3,000.00

1-352-622-7700

Comrex Matrix ISDN Codec



The new Comrex Matrix is a versatile, portable, 2.5 lb codec that sends high quality audio over POTS, ISDN or wireless services. The base model delivers 15kHz full duplex audio on a single POTS line and is compatible with the popular Vector and HotLine POTS codecs. An optional slide-in module transforms the Matrix into a flexible ISDN codec with ISO MPEG Layer III and G.722 for maximum industry compatibility and Turbo G.722 for 15 kHz, very low delay audio transmission. This module contains either "U" or "S/T" interfaces to allow worldwide ISDN operation. A second optional slide-in module provides connection to a GSM wireless phone via its pemcia slot. A "store and forward" feature permits audio cuts to be sent in non-real time over POTS or wireless service...useful when a suitable connection can't be established, but short clips of audio still need to be delivered. If you just need to make a telephone call, plain telephone mode allows seamless connection of microphones and headphones to a POTS line. This mode is also helpful when a POTS line won't sustain modem transmission, but you must go live immediately. An optional battery pack is available for the Matrix. Two mic inputs (one is mic/line switchable) and two outputs (headphone and line level) complete the Matrix package.

Matrix	\$3,700.00
ISDN Module	\$800.00
GSM Module	\$500.00
Battery, Charger & Mt. Brkt.	\$450.00



Comrex Envoy ISDN Codec



The Comrex Envoy combines a codec, terminal adapter, NT1 and full-featured mixer into one compact unit for high quality remote broadcasts on ISDN. Using the G.722 algorithm, the Envoy delivers 7.5kHz full duplex mono audio on ISDN with a minimal 6 millisecond delay. Applications include interactive remotes, interviews, talk shows, and sporting events. The Envoy also delivers 15kHz two-way mono audio, with the Turbo G.722 algorithm, for applications requiring full fidelity while still maintaining the low 6 millisecond delay. Mixing and monitoring facilities consist of 4 mic level inputs (2 are switchable to line level), 3 headphone outputs and 1 line level output. The Envoy is the simplest, most flexible way to send program on ISDN.

Envoy	ISDN Studio, 8lbs.	\$3,500.00
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Comrex Vector

POTS Codec



The Comrex Vector POTS Codec delivers 15kHz full duplex audio on a single plain telephone line. Now, you can send music with full fidelity from just about anywhere at any time! The Vector has mixing capabilities built right in: 3 mic level inputs on XLR (3rd is switchable to line) with an additional mic/line input on XLR for the main program or cueing and 3 headphone outputs on 1/4" phone jacks plus an additional line level output to feed a PA or a recorder. The Vector is compatible with the HotLine POTS codec and it can even act as a plain telephone if a phone line cannot sustain modem transmission.

Vector	Portable, 8lbs.	\$4,500.00
Vector	Rackmount, 11lbs.	\$4,500.00

See Comrex carrying cases and road cases on page 175!

Broadcasters General Store

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com



Telephone • Codecs

Marti SMARTI POTS Codec



Marti SMARTI is a result of years of asking broadcasters what they needed in a telephone remote. SMARTI is capable of sending and receiving broadcast quality audio over a standard POTS telephone line. Utilizing the latest MPEG compression algorithms coupled with modern DSP technology, the SMARTI offers

Broadcast Audio Quality with phone line convenience. Features include: field portable or rackmountable • adjusts

bandwidth/modem "baud rate" to maximize constantly changing phone lines • handles complex audio, optimized for voice and music • supports up to 33.6kbps depending upon the phone lines • automatic redial if disconnected • 10 telephone number storage with more than enough characters including commas for long distance and credit card calls via a standard telephone keypad • full duplex data connections in addition to the audio feed for attaching two computers via the DB-9 port • event timer via LCD display, can be operated in the count up or down mode • 2 relay contact closure switches for remote control at either end of the link • front panel, 600Ω monitor output via standard 1/4" plug • return and program audio line level adjustments • internal switching power supply operates from 100 to 240 volts (50 or 60Hz) without switches or jumpers to set • easy to replace, 33.6Kbps computer plug-in style, internal modem (available from factory only) • software upgrades done automatically via modem connection to Marti • and carrying case included with both models.

SMARTI..... RKS-411 \$2,875.00

SMARTI LITE RKS-111, 1 Mic/line, 1 headphone jack Version \$2,575.00

MUSICAM RoadRunner

Portable ISDN Codec/Mixer



RoadRunner, an economical, compact portable ISDN codec/mixer that lets you send and receive the highest quality monaural audio over a single ISDN phone line. Designed for voice-overs,

news, sports and other applications where high-fidelity, broadcast quality audio is

required, the RoadRunner delivers 20 Hz to 20 kHz audio with greater than 84 dB SNR when 2 ISDN 'B' channels are used. 15 kHz can be achieved when only a single 'B' channel is used. This lightweight, portable codec features a three-channel audio mixer with two dedicated microphone inputs and a third input switchable between mic and line levels. Two independent headphone circuits are included, with individually adjustable send and receive levels. Balanced return audio as well as unbalanced local and return outputs are provided for direct connections to your audio equipment. The RoadRunner comes standard with an internal ISDN terminal adapter and integrated NT-1 where required. It offers G.722, fully compatible MUSICAM[®] enhanced MPEG Layer 2 and Layer 3 algorithms, 24, 32 and 48 kHz sampling frequencies, with connect rates from 56 to 128 kbps.

RoadRunner Portable ISDN Codec/Mixer \$2,500.00

MUSICAM FieldFone II

Portable POTS Audio Codec



Provides broadcast quality audio over a single analog phone line. FieldFone II features a state-of-the-art 33.6 kbps modem, a three input audio mixer, and an enhanced MPEG Layer 3 algorithm to provide performance not previously available in POTS audio codecs. 20 Hz to 10 kHz bandwidth with greater than

83 dB SNR is achieved when connecting at 33.6 kbps. FieldFone II is fully bi-directional, and Two mic and 1 mic/line inputs, balanced and unbalanced outputs and two headphone monitor systems with separate send and return level controls are built in. A unique Sound-Shaper[™] lets you "fine tune" the encoding algorithm to the audio source, maximizing fidelity while minimizing coding artifacts. 256-entry speed dialing directory, last number redial, and telephone handset input are included.

FieldFoneII Portable POTS Audio Codec \$3,350.00

MUSICAM StudioFone

POTS Audio Codec

The StudioFone is a rack-mount companion for the FieldFone and FieldFone II. The unit features the same outstanding audio specifications as the



FieldFone II, adding an internal monitor speaker and an IFB (interruptible fold back) circuit. 33.6 kbps modem, enhanced MPEG Layer 3 and superior audio specifications yield up to 10 kHz audio with greater than 83 dB SNR. Fully bi-directional digital audio over one analog phone line with separate send and return monitor level controls are featured. StudioFone provides a built-in talkback feature allowing the return audio to the remote site to be interrupted when the panel mounted IFB button is pressed. Two mixing inputs, switchable for mic and line levels, and balanced line level outputs are available. Front-panel monitor speaker and headphone jack let you monitor both send and return audio, fed through two separate level controls.

StudioFone POTS Audio Codec \$3,550.00

MUSICAM Prima LT & Prima LT+



Prima LT is the newest addition to the Prima line. It is stereo, bi-directional, and comes with MUSICAM-enhanced MPEG Layer 2,

MPEG Layer 3 and G.722 algorithms for maximum compatibility. Prima LT accepts one digital interface module for direct connection to ISDN, V.35, X.21 or RS422. Other high performance features include the high quality 24-bit A/D and D/A Converters, a dynamic range better than 95 dB, and ultra low distortion figures of less than 0.005%. Data rates to 384 kbps can be obtained and AES/EBU/SPDIF I/O is optional. "One Touch" auto dialing and a simple, intuitive menu is standard. Storage for up to 20 ISDN TA configurations, each includes all TA settings, SPID and ID numbers.

Prima LT \$3,495.00

Prima LT+ \$4,600.00

1-352-622-7700

MUSICAM CDQPrima Digital Audio Codecs



All models, from the basic CDQPrima 110 to the full-featured CDQPrima 230 feature the same superb audio specifications. Each offer connectivity with MUSICAM-enhanced MPEG Layer 2, MPEG Layer 3 and G.722, formats at bit rates ranging from 24 to 384 kbps. All CDQPrima models use plug-in interface modules that allow you to connect directly to ISDN or to any digital transmission system with available V.35, X.21 or RS422A interfaces.

CDQPrima's broadcast modes allow you to send two independent audio channels to two or more locations, or send the same monaural or stereo program to as many as six locations simultaneously.

- 110 1 U, character LCD, basic keypad, accepts 1 interface module \$3,250.00
- 210 2U, character LCD, basic keypad, accepts 3 interface modules, AES/EBU (XLR) digital I/O and dual RS232 ancillary data channels \$3,750.00
- 120 1 U, character LCD, accepts 1 Interface Module, AES/EBU (DB-9) digital I/O, encode & decode VU, correlation and stereo image meters, intelligent headphone output, enhanced keypad includes headphone control, direct menu access and cue keypad, cue & status LEDs and front panel RS232 remote control \$4,200.00
- 220 2U, character LCD, accepts 3 interface modules, AES/EBU (XLR) digital I/O, encode & decode VU, correlation and stereo image meters, intelligent headphone output, enhanced keypad includes headphone control, direct menu access and cue keypad, cue & status LEDs, front panel RS232 remote control and dual RS232 ancillary data channels \$4,700.00
- 230 2U, large, graphics LCD display with encoder and decoder real-time spectrum analysis and phase displays, accepts 3 Interface Modules, AES/EBU (XLR) digital I/O, encode & decode VU, correlation and stereo image meters, intelligent headphone output, extended feature keypad adds direct display function keys and eight user programmable 'hot' keys, extended front panel status LEDs, front panel RS232 remote control and dual RS232 ancillary data channels \$5,700.00

Hotlinks to Vendors @



www.bgsfl.com
www.broadcastdealer.com

Telos Zephyr ISDN Codec



Telos Zephyr® is specifically designed for use with one ISDN circuit and other low bit-rate transmission paths. Zephyr can transmit two-way, 20kHz stereo audio plus ancillary data using a single ISDN circuit, or 15kHz mono audio using one of an ISDN line's two channels. The ISDN terminal adapter is built-in and is compatible with US and Euro-ISDN systems. Everything required for the ISDN connection is included, and the connection to the telephone network is via a single modular cable. Features include: full metering • call duration timer • headphone jack • fifty user-programmed auto-dial sets • bi-directional, RS-232 serial data at 9600bps for communications and control are transmitted simultaneously with the audio • four end-to-end parallel "contact closures" can be used to control recorders and other devices • selectable input audio limiter prevents your audio from distorting when your talent screams • logic output serves as an in-use indicator when an ISDN line is connected and as an alarm when the ISDN connection is terminated • and an optional AES/EBU digital I/O interface module provides maximum flexibility for connection with digital studio equipment. Sample rate conversion is available on both input and output paths. 2U & 17lbs.

- 9100* 3 DSP (Mono Xmit, Stereo Rcv) with ISDN TA and X.21/V.35 interface \$3,580.00
- 9101* 3 DSP (Mono Xmit, Stereo Rcv) with X.21/V.35 interface .. \$3,050.00
- 9102* 3 DSP (Mono Xmit, Stereo Rcv) with ISDN TA \$3,380.00
- 9200 5 DSP (Stereo Xmit & Rcv) with ISDN TA and X.21/V.35 interface \$4,420.00
- 9201 5 DSP (Stereo Xmit & Rcv) with X.21/V.35 interface \$3,920.00
- 9202 5 DSP (Stereo Xmit & Rcv) with ISDN TA \$4,250.00

*Five DSP configuration required for Layer II operation at 112/128kbps.

Telos Zephyr-Express ISDN Codec



The Telos Zephyr-Express portable ISDN audio transceiver combines a full-featured codec, an ISDN terminal adapter, and an audio mixing/monitoring system..... all in a road-rugged chassis. The three input mixer has two monaural microphone level inputs and a two-channel line level input. Two independent headphone outputs have selectable source controls for monitoring local and/or return audio. ISDN operation is through a familiar keypad, a large LCD display and an edit control knob. Menu structure is simple and includes on-line help. Unique, selectable SAFE feature allows the Zephyr-Express to be locked into a single, preferred configuration. The user can manually dial, disconnect and change levels but is restricted from modifying the ISDN setup and number to be dialed. If the situation requires, the user can disable the SAFE feature from the back panel and access the full menu. Other features include: MPEG Audio Layers 3 and 2, as well as G.722 • and G.711 allows you to place a voice-grade call to any standard telephone so you save the expense of an additional circuit at the remote site. Portable unit & 13lbs.

- 9302 5 DSP (Stereo Xmit & Rcv) with ISDN TA \$4,890.00

Telephone • Couplers

CircuitWerkes AC-12 Multi-Bay Autocoupler



CircuitWerkes AC-12 allows you to fit up to a dozen, full-featured telephone autocouplers in 3U of rack space. The AC-12 has two bridging, balanced inputs and switchable, buses for audio distribution. For network feeds you can select between two dedicated audio buses or, for special needs,

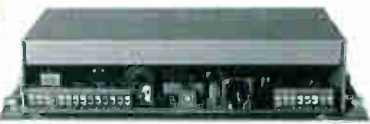
each coupler card has its own individual 600Ω bi-directional audio connection. Cards can be removed or installed while powered without affecting the others. All controls and indicators are removed. Indicators include ring, on-line, audio clipping and power.

AC-12 Powered multi-bay autocoupler chassis with 2 AC-1bs \$349.00

AC-1b Coupler cards for AC-12 \$175.00

CircuitWerkes HC-3

The CircuitWerkes HC-3 is a simple hybrid that provides a separate, unbalanced, send and receive port. Its new, on board limiting provides loudness without clipping distortion. Normally open, dry relay contacts close either momentarily or latch at the beginning of a call, and answers on a programmable number of rings. A combination lock option for a secured coupler can be easily added.



HC-3 Telephone Auto Coupler \$249.00

C-Lock2 Combination lock \$99.00

Comrex TCB-1 & TCB2



The Comrex TCB-1 manual coupler provides a switched-hold connection to a telephone line so that the telephone set may be hung up during program feeds. Use with any modular phone to

send or receive live or taped material. Very convenient for field use and does not require batteries or external power. The TCB-2 automatically answers a telephone line on the first ring and disconnects that line when the calling party hangs up. Ideal for unattended situations such as "listen lines", IFB feeds, dial-up networks, remote transmitter sites and satellite links. The TCB-2 requires an external AC supply.

TCB-1 Manual Coupler \$150.00

TCB-2 Auto-Answer Coupler \$250.00

Dial Tone Detect Board \$125.00



Excalibur HC-1



The Excalibur HC-1 connects between the phone and handset. It will send and receive audio via 1/4" TRS jacks. There is a send level adjustment and a switch to select handset audio or external audio.

HC-1 \$99.00



Gentner Auto Coupler

The Gentner Auto Coupler can send or receive line level audio sources. It will automatically answer after one complete ring and disconnects when the caller hangs up. Use the Auto Coupler for information lines, IFB, or any use requiring automatic operation.



Auto Coupler \$349.00

Auto Coupler CP for telco lines without "loop drop" hang-up signal \$379.00

Rack Mount holds four units \$54.00

Gentner's Hybrid Coupler



Gentner's Hybrid Coupler connects directly to the telephone line and is used to send or receive audio or other information. Its passive design allows you to "tap" the phone line, using the telephone and coupler simultaneously, or it can seize the line. Use it for news or producer feeds, or sending a church service broadcast.

Hybrid Coupler \$199.00

Rack Mount holds four units \$59.00

Gentner Microtel

Gentner's Microtel replaces the handset of the telephone, giving you hands-free phone operation and an easy way to send and receive other audio sources. Connections are provided for microphone, headset, and auxiliary inputs/outputs such as a tape machine. Ideal for news reporters, sportscasters, ENG crews, or sales people.



Microtel \$272.00

JK Audio Inline Patch

The JK Audio Inline Patch connects between your analog telephone and wall jack. Make recordings with separate control over your voice and the callers voice. Mix audio into your conversation, or use without a telephone as a simple hybrid. XLR I/O, 1/8" I/O.



Inline Patch Telephone Audio Interface \$270.00

JK Audio QuickTap



JK Audio QuickTap connects between your telephone and handset jack so that you can talk over your handset and record both sides of the conversation. You can also get presentation quality audio using a powered speaker or PA system. No batteries needed.

QuickTap \$59.00

JK Audio QuickTap IFB



Simply connect JK Audio QuickTap IFB between the handset and the base of your telephone. 1/8" jack will drive a high impedance earpiece at nominal levels. 600Ω male XLR provides a good mix of both sides of the call. No batteries or AC needed.

QuickTap IFB \$125.00

JK Audio THAT-1& THAT-2

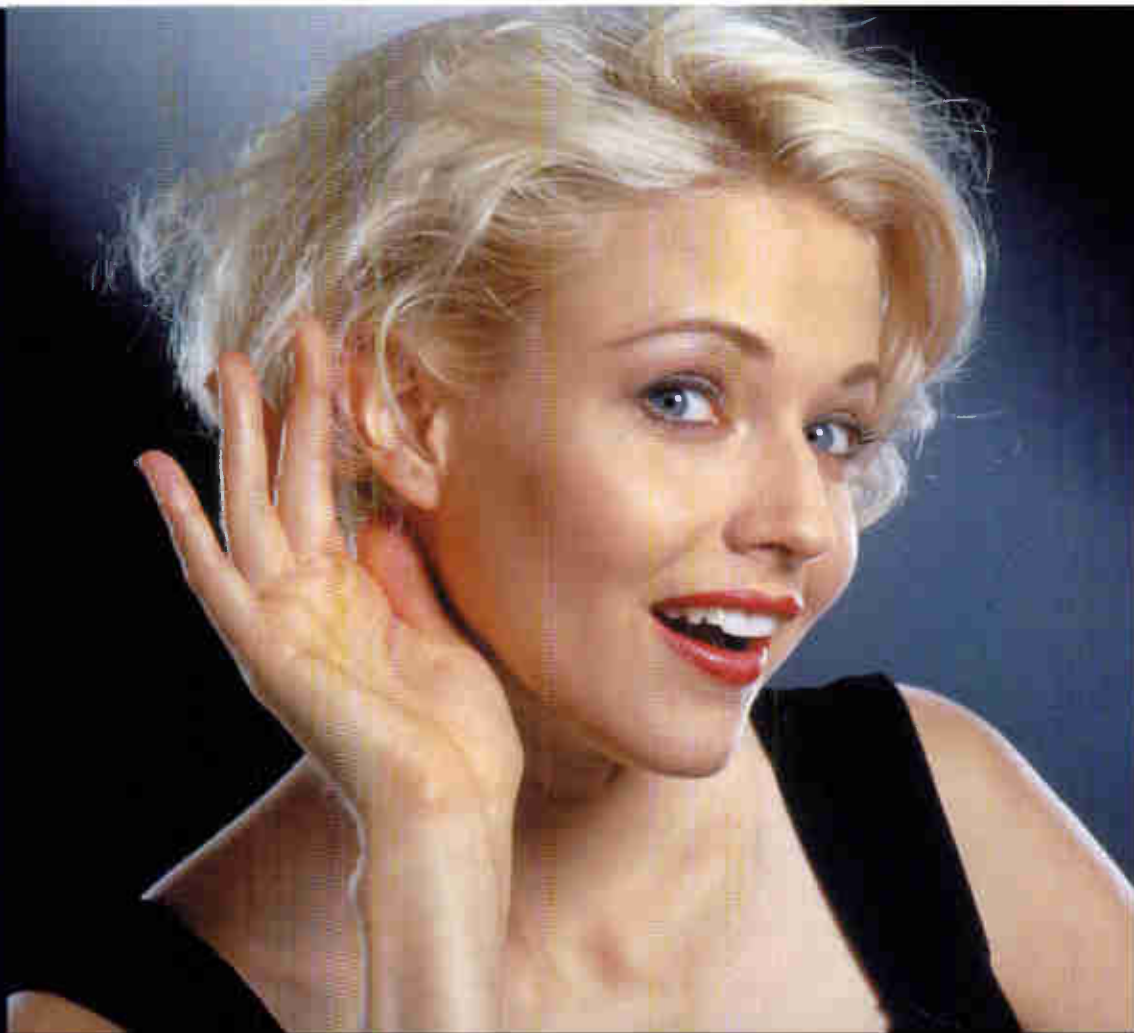


Connect JK Audio THAT-1 between your telephone and handset jack to record or play tapes down the telephone line. A handset/line in button enables you to either talk or play a recording down the phone line without changing cables. It works with analog, digital, PBX, ISDN and single line telephones. You can also get presentation quality audio using a powered speaker or PA system. No batteries needed.



THAT-1 \$150.00

THAT-2 As above including, RCA & XLR I/O, also switches between carbon, dynamic, or electret handset types \$225.00



Sound Advice.

1.

Demand **UNCOMPRESSED** 16-bit linear audio in your all-digital air chain. Compression means compromise and we just won't hear of it.

2.

Select a digital STL that can be configured with **UP TO TWO PAIRS** of linear stereo audio. It's like getting two radios for the price of one.

3.

Exercise your **FREEDOM OF CHOICE**. Choose 32, 44.1 or 48kHz audio sampling. It's your broadcast—select the rate that works best for you.

4.

Choose a digital STL that **CAN ADAPT TO ANY RF ENVIRONMENT** with user-defined 16, 32 or 64 QAM rates. (Flexibility is always a good thing.)

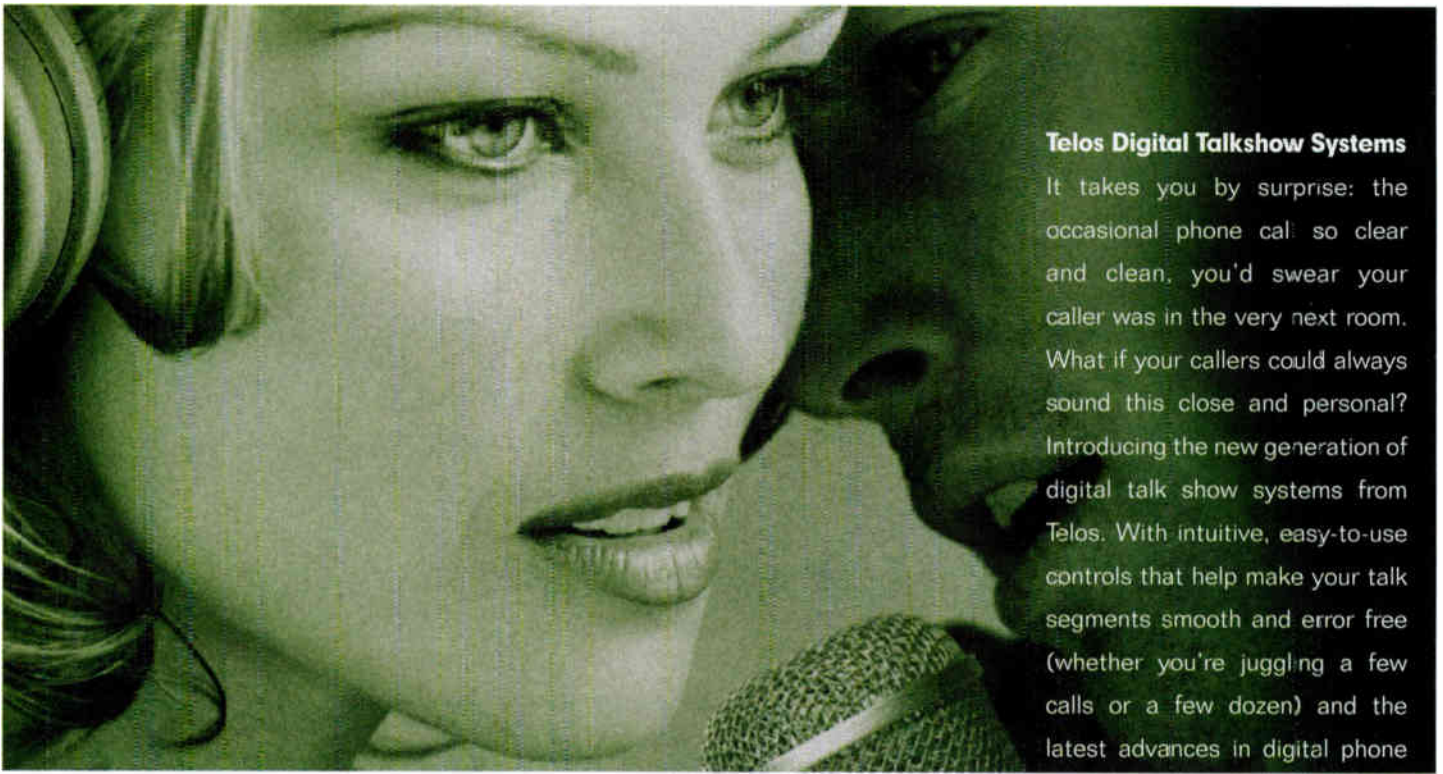
5.

Purchase a **950 MHz RF STL**. The channel allocation is free, and the money you save over a T1 STL goes straight to your bottom line.

Moseley's Starlink SL9003Q is the only 4-channel digital studio transmitter link on the market with all these features. Not just an STL, a sound investment.

Moseley

111 Castilian Drive • Santa Barbara, CA 93117-3093 • Tel: (805) 968-9621 • Fax: (805) 685-9638 • www.moseleysb.com



Telos Digital Talkshow Systems

It takes you by surprise: the occasional phone call so clear and clean, you'd swear your caller was in the very next room. What if your callers could always sound this close and personal? Introducing the new generation of digital talk show systems from Telos. With intuitive, easy-to-use controls that help make your talk segments smooth and error free (whether you're juggling a few calls or a few dozen) and the latest advances in digital phone

hybrids from the company that invented them. Never have your callers sounded so consistently loud and crystal clear – it's the next best thing to having them there. Don't just talk to your audience... get intimate.

Talk radio is suddenly intimate

Telos Systems. Connected.



Telos TWOx12™ Integrated Talkshow System

Using POTS or ISDN lines, the TWOx12 handles up to 12 callers on two built-in digital hybrids. The intuitive phone controller tames even the wildest talk shows.

Telos
S Y S T E M S

www.telos-systems.com

TELOS SYSTEMS NORTH AMERICA: +1.216.241.7225 • TELOS SYSTEMS EUROPE: +49.81.61.42.467

Telephone • Hybrids

Broadcast Tools MC-16

Telephone Hybrid/Coupler



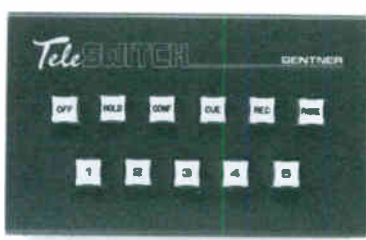
Broadcast Tools MC-16 is a full featured telephone line coupler with hybrid which provides the following features: 32 programs; 32 ASCII strings (DTMF to ASCII); 64 macros; 16 relays; balanced inputs and output; auto answer (max 20 rings); 4-digit access codes; programming done with non-dedicated computer; removable screw terminals; 1U and a host of additional features.

MC-16 Telephone Hybrid/Coupler \$499.00

Gentner Teleswitch

Telephone Call Director

Gentner's Teleswitch, is a simple telephone call director for up to five lines. You can place the call on hold or direct it to your hybrid. Features include: telephone set connection • input for audio on hold • conferencing mode • and standard RJ-11E connections.



Teleswitch \$1,045.00
Interconnect cable specify Gentner hybrid \$35.00

Gentner TS612 Version 2.5



Multi-line System,
6 lines/12 lines

The Gentner TS612 Version 2.5 mainframe contains two internal digital hybrids that provide

high-quality interface to six telephone lines (expandable to 12). The dual hybrids allow the TS612 to operate as a single-studio telephone system able to conference up to four callers simultaneously or as a two-studio system able to conference two callers to each studio. The TS-612 supports a dedicated call-screening control surface. An off-air screener takes incoming calls and places them in a screened-hold queue. The on-air talent or producer presses the NEXT button on the main control surface and the call is immediately on-air. The integrated mix-minus provides superior audio quality and simple installation. Automatic gain control provides consistent audio levels on all calls. The TS-612 can be configured to operate as a single studio dual hybrid system, or as two independent studios with a single digital hybrid each. The system is expandable via the Network Interface to accommodate up to 9 studios and sharing 12 telephone lines.

TS612/6 Multi-line System, 6 lines, version 2.5 \$3,149.00
TS612/12 Multi-line System, 12 lines, version 2.5 \$4,195.00
ACS Additional Control Surface \$489.00
LEK Line Expansion Kit, increases system to 12 lines \$1,195.00
NI Network Interface, 1 per mainframe (12 line system only) \$520.00

Gentner SPH10 Analog Telephone Interface



The Gentner SPH10 is an analog telephone interface that interconnects between a standard telephone line and your audio equipment. Features include: the newest analog technology • audio filtering and equalization • balanced I/O • balanced and unbalanced mix output for recording both sides of the conversation • built-in monitor amp • automatically accepts all worldwide voltages and is worldwide compliant!



SPH10 Analog Telephone Interface \$499.00

Gentner DH20 & DH-22 Digital Telephone Hybrids



The Gentner DH20 and DH-22 has 16-bit DSP digital technology to deliver better and more reliable sound quality. Features include: auto mix-minus • built-in speaker amp • balanced I/O • mic or line input • selectable AGC • selectable caller ducking • selectable auto answer/auto disconnect compatible with most telephone central offices including loop current interruption and busy/reorder • remote control and status • automatically accepts all worldwide voltages and is worldwide compliant. The DH-22 is two digital hybrids in one chassis. It included

all the above feature as well as selectable cross conferencing.

DH-20 \$995.00
DH-22 \$1,595.00

Gentner DH30 Digital Hybrid



The Gentner DH30 24-bit DSP digital technology can interface with the latest digital consoles, as well as analog consoles. Features include: remoteable presets • password protected • AES/EBU digital or analog audio I/O • record and cue functions • selectable auto mix-minus • selectable acoustic echo cancellation • selectable auto answer • selectable auto disconnect with loop drop and/or call progress detection • integrated monitor amp with front-panel volume control • remote control via rear-panel connection • adjustable caller control (ducking) • adjustable 3-band EQ • adjustable compressor and expander • bass boost • microphone send and cue preamps • automatically accepts all worldwide voltages • three selectable presets for customized audio • and worldwide compliant including FCC, CSA and CE.

DH30 \$1,795.00

Hotlinks to Vendors @
www.bgsfl.com
www.broadcastdealer.com

JK Audio innkeeper 1 Digital Hybrid
innkeeper 1



The JK Audio innkeeper 1 Digital Hybrid uses a 16-bit DSP to continuously monitor the phone line for maximum transmit/receive separation. XLR in and out, headphone and speaker output. Remote keypad available. Universal AC input. Desktop enclosure.



innkeeper 1r

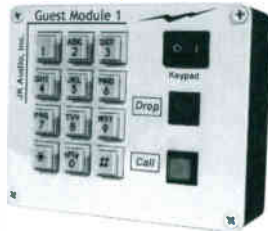


Back

- innkeeper 1 Digital Hybrid \$750.00
- innkeeper 1r Digital Hybrid, rack mount version \$825.00

JK Audio Guest Module Remote Keypad

The JK Audio Guest Module is a remote keypad accessory designed exclusively for the innkeeper Digital Hybrids. Place near your console for simple off-hook/on-hook, and dial control. Easy RJ-45 connection.



- GuestM Remote Keypad \$185.00

Radio Systems TI-101 Analog Hybrid

The Radio Systems TI-101 provides easy two-way connection between your console and phone line with back panel gain switches. Its features include: equalization, send limiting, receive compression/expansion, caller mute, LED clipping indicators, conference linking, and bandpass filtering.



- TI-101 \$495.00

Radio Systems DI-2000 & DI-1000

Digital Phone Hybrids



The Radio Systems DI-2000 is the only telephone

hybrid with built-in circuitry to answer and audition callers, put them on hold, on-air, or in conference mode without any external gear or wiring needed. Line nulling, two line conferencing, full audio switching, call routing, and console remote control is all automatic and ready to use. Just plug-in your phone line, connect your console, and put your callers on the air!



- DI-2000 Dual Line Digital Phone Interface \$1,495.00
- DI-1000 Single Line Digital Phone Interface \$995.00

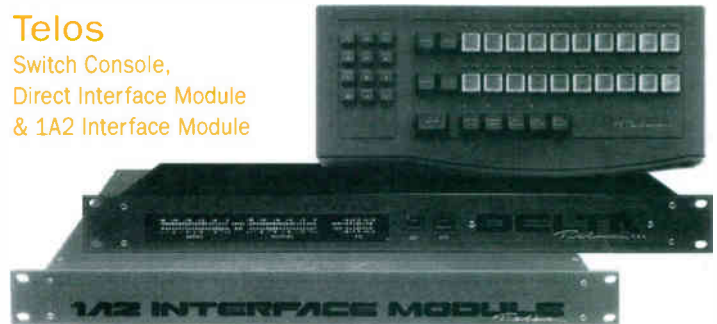
Telos 100 Delta Digital Hybrid



The Telos 100 Delta digital hybrid uses advanced digital signal processing to produce the most natural sounding two-way conversation even on the most difficult telephone lines. In addition to superior trans-hybrid loss (typically exceeds 50dB) for full-duplex audio, the 100 Delta achieves consistent output level and improved tonal quality from the telephone line. Smart digital gain control and digital dynamic equalization offer the highest level of caller intelligibility. Other features include: two duplex-depth settings that can be established and remotely selected • digital logarithmic (dB linear) automatic gain control • Digital Echo Elimination, Telos' proprietary two-stage feedback suppression system • high and low pass filtering to clean up phone line noise and hum. This hybrid can operate alone or be bundled into multi-line talk show systems with a Direct Interface Module or 1A2 Interface Module and Switch Console. 1U & 11lbs.

- 100 Delta Digital Hybrid \$1,780.00

Telos
Switch Console,
Direct Interface Module
& 1A2 Interface Module



Telos offers a variety of complete systems for talk and call-in shows. Systems configuration starts with the telephone hybrids. If only one caller is to be placed on-air, a single Telos digital hybrid telephone interface may be used. Two hybrids are strongly recommended when two callers are to be conferenced to provide adequate caller-to-caller gain. The Direct Interface and 1A2 Interface Modules are used to connect to telephone lines and provide system management. The Direct Interface Module allows connection of up to ten phone lines, without any intermediary equipment, and provides music-on-hold input and connection for screener phones. The 1A2 Interface Module is used with key systems and allows system expansion to 20 or 30 lines by adding second and third units. The desktop Switch Console is used for system control and line selection. Plugs are provided for two Switch Consoles. Optional power supplies permit the connection of additional controllers. The controller panels available for the consoles of several broadcast equipment manufacturers are alternatives to the Switch Console.

- DIM Direct Interface Module, 2U & 17lbs. \$2,100.00
- 1A2 1A2 Interface Module, 1U & 14lbs. \$1,200.00
- SC Switch Console, 6lbs. \$590.00
- MS Mitel Superset IV, a full-featured electronic phone for screening calls with the DIM, 4lbs. \$380.00
- LPS Local Power Supply, for use with SC when cable is in excess of 75 feet, or when more than 2 SC are needed, or when console-mounted control panel is used \$210.00
- AP Assistant Producer, Call Screening Software \$520.00
- 50' Modular Shielded Cable, 50 foot \$30.00
- 75' Modular Shielded Cable, 75 foot \$40.00

Telos ONE

Digital Hybrid



The Telos ONE produces superb digital telephone hybrid performance for broadcast, teleconferencing and communications applications. All hybrid functions, gain control and filtering is performed completely in the digital domain. Features include: advanced digital auto-nulling • trans-hybrid loss is typically greater than 40dB • input gain processor with smart, floating freeze-gain gate • output gain processor that provides level control and smart downward expansion • selectable override function to reduce the caller level by approximately 8dB when input audio is present, allowing the talent's voice to have more presence when speaking at the same time as the caller • Digital Echo

Elimination, allowing significant gain-before-feedback when used with open monitor speakers • high and low-pass filtering to clean up phone line noise and hum. The Telos ONE comes in three versions: a single hybrid, in either a compact modem case or standard rack mount chassis (can operate with Basic or Super Auto Answer Boards); and the ONE plus ONE, a dual hybrid with a built-in mix-minus matrix.

- ONE Digital Hybrid, Modem Case, 8lbs. \$680.00
- ONERM Digital Hybrid, Rack Mount Version, 1U & 10lbs. \$880.00
- ONE+ONE Dual Digital Hybrid, 1U & 15lbs. \$1,980.00
- Basic Basic Auto Answer Board, enables hybrid to automatically answer incoming call and hang up on loop current drop or reversal (calling party control). CPC not available in all countries or private PBXs, in those cases use Super Auto Answer Bd. \$60.00
- Super Super Auto Answer Board, same as the basic but adds sophisticated capabilities such as remote control capability for connect, drop and auto-answer function and open collector outputs from integral DTMF decoder. \$175.00
- SRM Single Rack Mount Panel for ONE \$80.00
- DRM Dual Rack Mount Panel for two ONES \$80.00

Telos ONE-x-Six Talk Show System

The Telos ONE-x-Six works identical to the all-digital performance and features of the Telos ONE and has all of the telephone interface and control equipment needed for talk show programming. A single rack mount unit houses both a Telos ONE digital hybrid and a six-line broadcast phone system. For system control, the ONE-x-Six requires at least one desktop Switch Console and supports a maximum of two Switch Consoles or console-mounted control surfaces. Features include: six-line call selector • program-on-hold • caller screening and conferencing • and full implementation of Switch Console special functions.

- ONE-x-Six ONE-x-Six Talk Show System, 1U & 10lbs. \$1,430.00
- SC Switch Console, 6lbs. \$590.00

Telos TWO

Digital Hybrid,

Two-line ISDN



The Telos TWO exploits the ability of telephone networks, which are entirely digital, to cross-connect analog (POTS) lines with ISDN. By maintaining an all-digital path from the studio to the Telco's central office, the studio end benefits from the virtual four-wire configuration of ISDN. The Telos TWO ISDN Hybrid contains twin independent hybrids, one for each ISDN B channel. Built-in conferencing capability between the two channels is provided. Performance is superior to the all-analog equivalent because only the far-end analog caller lines need conditioning. That means more gain without feedback for clean, loud caller and send-to-caller audio. Features include: built-in ISDN TA, with S and U interfaces • balanced XLR analog and AES/EBU I/O • two mic/line inputs with phantom power • dynamic EQ with caller AGC • adjustable caller ducking • graphical LCD • and supports caller ID.

TWO Digital Hybrid, Two-line ISDN, 2U \$2,980.00

Telos TWOx12 Talk Show System

The Telos TWOx12 talk show system allows you to manage up to twelve callers with full high-quality conferencing capabilities. Call traffic can be controlled with up to four intelligent Desktop Directors that use icon-based call management.

In addition, the TWOx12 supports the popular Telos Assistant Producer call screening software. Features include: intelligent call controller with built-in handset, speakerphone and headset jack • analog and AES/EBU I/O • Ethernet and RS-232 ports. POTS version is field-upgradeable to ISDN. Base system requires one Desktop Director, supports a maximum of four with additional power supply.

- TWOx12 ISDN Digital Talk Show System \$4,980.00
- TWOx12 POTS Digital Talk Show System \$4,180.00
- DD Desktop Director \$1,180.00
- 0212-1100 Telco ISDN Card for Two-x-12, Dual U card permits connection of two (one ISDN BRI line = two B channels or 2 dial tones) ISDN BRI lines. Two-x-12 accepts up to three of these cards for a full complement of twelve dial tones. \$480.00
- 0212-1300 Telco POTS Card for Two-x-12, Three-line POTS card permits connection of three POTS lines (one dial tone per line). Two-x-12 accepts up to four of these cards for a full complement of twelve dial tones. \$280.00
- 0212-1400 Desktop Director Power Supply --- Needed when third and fourth Desktop Director is added to TWOx12. One power supply is required for each Desktop Director in excess of two, or when a Desktop Director cable is in excess of 250 feet. \$520.00



Zephyr Remote Software

The Zephyr Remote (ZR) was developed to control the Telos Zephyr Audio Transceiver. Zephyr Remote allows control from any PC, via Comm Port, LAN or Internet. Some features include: on-screen unlimited autodials • continuous real-time status updates • control of multiple Zephyrs • manipulation of all Zephyr functions • continuously updated ISDN and sync status • displays call time, warns if call is lengthy and protects against leaving Zephyr connected unintentionally • warm Reboot of Zephyr • and Windows 95, 98 & NT. ZR makes it easy for a facility to share Zephyrs. It automatically routes control and blocks access while others are using the Zephyr. Radio and TV stations will find this software useful when doing remotes. The engineer can control Zephyr functions while in the control room.

Zephyr Remote Software Single Version \$99.00/ Network Version \$399.00

Test Equipment

Audemat FM-MC3.2

RF Mobile Field-Strength Meter, Baseband Analyzer & Mod. Monitor



The Audemat FM-MC3.2 is a dynamic FM field-strength meter, base-band analyzer, high quality FM receiver, FM demodulator, RDS decoder and DARC receiver and decoder, and GPS satellite receiver. It includes a 12Vdc for in car use and a universal AC main power supply, with MS Windows based software. Available in AM, FM configurations, the FM-

MC3.2 allows users to monitor and analyze multiple signals and to display and record the results for analysis of the market and the competition. Every aspect of the broadcast signal can be measured, monitored and analyzed to allow the broadcaster to optimize his signal. Ease of operation and user-friendly ergonomics has made the FM-MC3.2 the recognized standard of broadcast networks and regulation authorities around the world. The FM-MC3.2 can also be delivered or upgraded with "Goldenear", a new software program that qualifies broadcast reception quality.

FM-MC3.2 \$24,043.00

Audemat Goldenear Analysis of Signal Quality Software

Goldenear is a new software program that qualifies broadcast reception quality and allows broadcasters the ability to measure and record many parameters of a station to allow for a complete analysis of signal quality. Parameters include the composite signal, pilot, RF, RDS, left channel, right channel, L+R, L-R, among others. Goldenear also creates a quality index and allows objective comparisons between competing signals. Even multipath can be analyzed. Data recorded can be manipulated in many ways; GPS results which display as color values can be turned into numerical values and sorted as required. Visualization filters allow you to filter out anything over or below specific criteria; for example anything below 50dB (city grade signal) or anything over 61-1dB representation. Because the audio and data has been recorded, it can be taken back to the studio and analyzed. Broadcasters can evaluate how each of these components effects the audio by not only listening to the audio, but by watching the playback.

Goldenear Analysis of Signal Quality Software \$28,304.00
Option Goldenear as option for those who own an FM-MC3.2 \$6,385.00

Audio Control Industrial SA-3051

1/3 Octave Spectrum Analyzer

The Audio Control Industrial SA-3051 is an affordable, measurement-grade, one-third octave real-time analyzer with 6 memories, ANSI Class II, XLR, 1/4" and RCA inputs, SPL, pink noise and freeze frame and CM-10 microphone. Other features include: digital SPL display, peak hold, memory averaging, and microprocessor averaged slow speed. The SA-3052 includes the SA3051 features plus internal rechargeable battery, parallel printer interface and carrying case.



SA-3051 1/3 Octave Spectrum Analyzer, 110Vac \$995.00
SA-3052 1/3 Octave Spectrum Analyzer, 110Vac & Battery Operation \$1,359.00

ATI NG-1 Audible Noise Generator

The ATI Audible Noise Generator NG-1 has selectable and adjustable pink or white noise, pulsed or continuous with built-in speaker and an output jack for an external amplifier and speaker. It's battery operated for portable use and includes a wall mount AC power supply for continuous operation.

NG-1 \$219.00



Avcom PSA-35A Portable Spectrum Analyzer



The Avcom PSA-35A is a portable spectrum analyzer with LCD frequency counter readout. It accurately measures wide band signals used in the TVRO industry. Frequency coverage from 10MHz to over 1750MHz, and from 3.7 to 4.2GHz. Please specify voltage.

PSA-35A \$1,965.00

Avcom PSA-37D Portable Spectrum Analyzer

The Avcom PSA-37D portable spectrum analyzer is Avcom's answer to your downlink installation, service, and maintenance problems. Frequency coverage is from 10 to over 1750MHz and from 3.7 to 4.2GHz, in 5 bands.



Frequency readout is shown in MHz on a four digit LCD front panel display. The digital readout allows you to identify and resolve terrestrial interference problems quickly and precisely by displaying the frequency of offending signals. The PSA-37D has a built-in DC block with +18VDC for powering LNA's and BDC's, accurate signal strength amplitude display and internal battery with charger. Selectable vertical sensitivity of either 2dB or 10dB/Div. is standard.

PSA-37D \$2,475.00

Avcom PSA-65A & B

Portable Microwave Spectrum Analyzer



Avcom's PSA-65A Portable Microwave spectrum analyzer covers a frequency range from less than 2MHz to 1000MHz. This light weight, battery or line operated Spectrum Analyzer is the perfect instrument for field testing of RF systems, classroom instruction, satellite system alignment, electronic counter

measures, cable TV maintenance, cellular, and production use. Options include a 10kHz resolution bandwidth filter for the 2MHz/Div. span that extends lower frequency range to approximately 200kHz, an FM demodulator for aural monitoring, and several high performance precision-machined log periodic antennas.

PSA-65A \$2,855.00
PSA-65B Same as 65A but freq. range 1MHz-1250MHz \$2,930.00
10KHz 10kHz resolution bandwidth option \$275.00
FADO FM audio demodulator option \$185.00
FE Frequency extenders for 1-2, 2-3, 3.7-4.2 GHz and 950-1450 MHz (Price each) \$565.00
ADO AM detector option \$119.00
OIO Oscilloscope interface option \$179.00

1-352-622-7700

Test Equipment

Bird Wattmeter & Wattcher See Page 152!

Coaxial Dynamics Wattmeter See Page 153!

Conex RX-11 Tone Jack Audio Generator

The Conex RX-11 Tone Jack is a compact audio frequency generator providing sine and square-wave signals with precise frequencies from 1Hz to 29,999Hz. It is useful in testing the frequency response of systems, filters, tone sensors, etc. It is powered by a 9V battery or external power and has an RS232 interface that allows a computer or terminal to control all the normal front panel functions.



- RX-11 Tone Jack Audio Generator \$229.00
- SC-1 RS-232 Serial Cable, RJ011 to DB-25 \$15.00
- PS-1 Power supply \$9.95
- CA-1 Carrying case \$11.95
- OC-1 Output cable, phone jack to clips \$9.95

Dayton AF272

Portable FM/SCA Receiver and Field Strength Meter

The Dayton AF272 is a Portable FM/SCA Receiver and Field Strength Meter. The receiver is a sensitive FM receiver that covers the 88 to 108 MHz standard band and demodulates the main channel audio as well as the standard 67 and 97 kHz subcarrier audio. Meters are provided that enable the Model AF272 to be used as a portable Field Strength Meter. There are two tuning methods: FIXED tune frequency (PLL controlled) and MANUAL tune control for the entire band. There are switch selectors for the tuning method used, the audio selection, meter function and attenuator controls.



- AF272 Portable FM/SCA Receiver and Field Strength Meter \$479.95

Delta Electronics SNG-1

Stereo Noise Generator

The Delta Electronics SNG-1 stereo noise generator is designed to meet the requirements of NRSC-1 and 2 standards for testing AM stereo and mono radio transmission facilities.



- SNG-1 \$720.00
- RMK-1 Rack Mount Kit \$180.00

dbx Alan Parsons Sound Check Test CD

The dbx Alan Parsons Sound Check Test CD features 99 tracks of test signals, alignment tones, and instrument and vocal tracks to ring and test any environment.

- APSCD Alan Parsons Sound Check CD \$29.95

DOD RTA series II Real Time Analyzer



DOD RTA series II Real Time Analyzer has each of the 31 bands displayed in a vertical row of 5 LED's. It is switchable between 1dB steps in a 4dB window or 3dB steps in a 12dB window, with a built in pink noise generator.

- RTA Includes mic with 40' of cable, 1U \$479.95

Dorrough 1200 Stereo Audio Signal Test Set

The Dorrough 1200 is a simple and easy to operate stereo audio signal test set. It allows measurements of level, balance, crosstalk, and signal-to-noise with a dynamic range of -90 to +20dB and a measurement range of -76 to +20dB. The solution to balanced stereo lines.



- 1200 Stereo audio signal test set \$1,650.00

Swizz Army® 6 in 1 Cable Tester

Swizz Army 6 in 1 Cable Tester for XLR, 1/4"TRS, RCA, MIDI, TT, 1/8 stereo. Continuity check tells you good/bad and what pins are shorted. It's intermittent detect & display allows you to shake/wiggle your cable without fear of missing the intermittent short. It stores your intermittent information until you reset it. In test tone mode it generates a switchable 440Hz/1kHz tone at mic level, -10dBV, and +4dBu. The phantom power detect not only tells you if there is phantom power, but which pin it is on. The grounded shield detect allows you to be sure your connections are right. The installed cable test allows you the check cables that are already installed in walls. Includes a steel belt clip.



- Swizz Army 6 in 1 Cable Tester \$149.95



Fostex TT-1 5-Frequency Sine Wave Oscillator

Fostex TT-15 is a 9V battery operated, 5-frequency sine wave oscillator (40 Hz, 400 Hz, 1, 10 and 15 kHz) with 3 selectable output levels (-30, -10 and 0 dB), is useful for spot checking frequency response, calibrating mixers with tape recorders and other level matching jobs.

- TT-15 \$60.00

Galaxy Audio Cricket Polarity Test Set

Galaxy Audio makes a test instrument for the audio installer or soundman which indicates absolute polarity of most audio devices or may be used as a cable tester. The send unit has balanced 1/4" and XLR jacks, an unbalanced 1/4" speaker out jack and an internal speaker. The receive unit has 1/4" and XLR jacks, a sensitivity control and an internal microphone. Both units are housed in high impact padded ABS cases and are powered by a 9 volt battery.



- Cricket Polarity Test Set \$399.00

Test Equipment

Gold Line 30M8 30 band RTA with 8 Memories

The Gold Line 30M8 is a 1/3 Octave battery operated Audio Spectrum Analyzer complete with remote microphone and 8 memories which are active until the unit is turned off. It is also an accurate sound level meter and will read sound pressure levels in either A or C weighting. A calibrated instrument microphone is provided which can be attached directly to the 30M8 via the XLR mic input or it can be removed via mic cable.



30M8 30 band RTA with 8 memories \$749.95

Gold Line DSP-30

Digital 1/3 Octave Real Time Spectrum Analyzer

The Gold Line DSP-30 features an 85dB sound window with scroll up/down that is large enough to capture the dynamic response of a room and is capable of detailed measurements with great accuracy. The 1/4dB precision measurement range permits the engineer to utilize standard industry test tapes and view all frequencies simultaneously for faster tape head monitoring or service.



DSP-30 Digital 1/3 Octave real time spectrum analyzer \$1,625.00
 DSP-30RM Rack Mount DSP-30/pink noise \$1,900.00

Gold Line LM27P5

1/3 Octave Real Time Analyzer w/Pink Noise Generator

The Gold Line LM27P5 is a one third octave Real Time Analyzer, complete with instrument microphone and built-in pink noise generator. 1U

LM27P5 \$630.00



Goldline PN-2 & PN-3A Pink Noise Generators

Goldline's Pink Noise Generators supply a flat noise source as a test signal for sound systems. The PN-2 is powered by a 9V battery which is turned on by the insertion of a 1/4" connector to the pink noise output and is housed in an ABS plastic case. The PN-3A is a gated pink noise source which provides continuous pink noise or bursts which are excellent for RT60 measurements plus short pulses suitable for Loudspeaker Timing Analysis. Complete with timer controls for "time on and off." Powered by a 9V battery. The output is accessed via a 1/4" unbalanced plug.

PN-2 \$123.75

PN-3A \$167.00



Gold Line SPL 120

Sound Pressure Level Measurements

The Gold Line SPL 120 is a portable instrument designed to fill the need for accurate sound pressure level measurements, all at an affordable price. It features: seven segment digital numeric display with SPL readings in dB, a built-in instrument microphone, and is battery or AC powered.



SPL120 \$269.95

Goldline TS-1 Three Audio Test Instruments in One

Goldline TS-1 is three audio test instruments in one unit. It includes: a low distortion audio oscillator with a range of 10Hz to 30kHz; a frequency counter with response of 1Hz to 99.99kHz; and a dB meter with range of -50 to 24dB from 20Hz to 20kHz. The TS-2 is a TS-1 that will determine impedances in the audio frequency range (20Hz to 27kHz) from 1Ω to 1000Ω. Versions are available from 1Ω to 10KΩ.



TS-1 Balanced in \$429.95
 TS-1-BP Wired for battery (battery included) \$625.00
 TS-1-RMX Balanced in & out via XLR both front & rear w/RM \$579.00
 TS-2 TS-1 with impedance function \$589.00
 TS-2-BP Wired for battery (battery included) \$750.00

Graham Patten DTG-1 Tone Generator

The Graham Patten DTG-1 tone generator is an economical source of a variety of audio test signals that are generated entirely in the digital domain and output in the AES/EBU format. Use it in the studio as a reference tone generator or on the bench as a troubleshooting tool. Rugged, compact, and capable of running off battery power, the DTG-1 is also ideal for portable application. The DTG-1 has internal oscillator both 44.1 and 48kHz sample rates, or it may be locked to an external reference.

DTG-1 Tone Generator \$749.00

GTC Industries, Inc. Tone Plug

No larger than a standard microphone connector, the TONE PLUG is a unique audio test instrument capable of generating 11 distinct test functions for the rapid troubleshooting, analysis and calibration of audio systems and components. It can also be used for generating slate tones for audio and video recordings. The TONE PLUG offers five user selectable sine wave test tones at frequencies of 100, 250, 400, 1K and 10 KHz. An additional five special function test signals are also provided. These include a 40/2400 Hz signal for testing the VLF components of a system such as sub-woofers, crossovers and amplifiers; a short duration, multi-frequency pulse for adjusting time delays, reverbs and echo units; An amplitude sweep function for adjusting compressors, limiters and tape levels; Automatic frequency stepping, and a unique sweep tone for tracing wiring in racks and buildings. The TONE PLUG even includes a bright LED indicator for checking microphone cables and connections. A single button on the side of the TONE PLUG allows for quick selection of all test functions. And because the TONE PLUG is phantom powered, it requires no batteries or external power supply.



Tone Plug \$50.00

Test Equipment

GTC Industries, Inc. Noise Plug

The NOISE PLUG is a complete precision pink noise generator built in a XLR microphone connector. Inside the NOISE PLUG is an ultra wideband, avalanche junction white noise source. The output of the white noise source is frequency limited, amplified and passed through a precision -3db per octave low pass filter. The result is a full audio spectrum noise source with equal energy distribution in all octaves. The NOISE PLUG can be used to check over-all audio system operation, adjust speaker crossover points and balance, check frequency response of amplifiers, tape decks and other audio components, and adjust system equalization. Pink noise is also often used in noise masking systems to reduce annoyance from other noise sources such as heavy machinery and air handling systems. The NOISE PLUG is extremely easy to use. Simply plug it into a phantom powered microphone input on your mixer and turn up the volume. A bright red LED indicator on the back of the NOISE PLUG shows that phantom power is present and that the NOISE PLUG is operating. Because it's phantom powered, there are no batteries to go dead or bulky plug-in power supplies to deal with. It's always ready for immediate use.



Noise Plug \$49.95

Hamlet Portable Composite Waveform/Vectorscope

The Hamlet portable units were the first rasterizing test measurement devices designed for field use. They digitally generate waveform/vector signals for display on standard field monitors, LCDs and some camera view finders. They provide a means of identifying and analyzing signal aberrations and assist in locating the equipment causing the problem. Monitoring video levels during video production can guard against a multitude of potential problems and are especially important because they confirm the quality of the video signal at the remote location, improving accuracy. The Micro Scope Series are portable units that weigh less than 2 pounds and are small enough to hold in the palm of your hand. They are powered by either rechargeable Nicad batteries or the included 12V AC adapter. Hamlet offers a complete line of portable, rack-mountable and PCB-level devices for studio, desktop video and ENG/EFP applications. All units carry a two year warranty.



302WVA Portable Composite Waveform, Vector and Audio \$1,745.00
 300W Portable Composite Waveform only \$1,249.00
 PLM-1 Portable Composite/Component Pgm. level meter \$1,095.00

Hamlet Composite Waveform/Vectorscope



The Hamlet Waveform/Vectorscopes digitally-generate waveform, vector and/or audio signals with their associated graticules for display on any standard monitor. So, you can route the signals to multiple monitors of any size or to monitors located in remote areas. Choose from a variety of models that meet all video applications and broadcast specifications.

301WV Composite/Component Waveform and Vector \$2,295.00
 302WVR 1/2 RU, Composite/Component Waveform, Vector and Audio \$1,995.00
 301WVA 301WV w/Audio Display \$3,170.00

McCurdy ATS-100 Stereo Extended Range Audio Meter



The McCurdy ATS-100 Stereo (or dual mono) Extended Range Audio Meter allows

monitoring of audio levels over a wide range of levels and system impedance's. Features include: Taut-band high quality meters • LED illumination eliminates bulb replacement • Accurate offset adjustment in 1dB steps • 90dB range • Provides readings to 0.1dB accuracy • XLR rear connectors • An indicator is provided for accurate stereo phasing measurement • Integral power supply.

ATS-100 Specify -10, +4 or +8 \$1,995.00

Modulation Sciences SRD-1



Modulation Sciences SRD-1 Stereo reference decoder accepts wide-band composite and provides left and right or sum and difference in the BTSC (companded) or

equivalent mode. Transfer standard for checking the performance of any make TV stereo generator.

SRD-1 \$5,250.00

Neutrik MR-1 Multifunctional Analog Audio Generator



The Neutrik MR-1 Minirator is a battery powered professional multifunctional analog audio generator. The Minirator covers most of the typical test signals used in pro audio, including sine and square waves, as well as pink and white noise. A 20Hz sawtooth-like waveform is included as a polarity signal. This signal will be used in conjunction with the next product in the MINI series, the Minianalyzer.

MR-1 Multifunctional Analog audio Generator .. \$105.00

Neutrik Minilyzer ML-1

Neutrik Minilyzer® continuously measures audio levels at RMS or peak levels, absolute or relative to a definable reference with selectable units. The accurate frequency measurement, with a high resolution of 100ppm gives additional functions and acts as the base for distortion measurement. The meter features DIN, BS and Nordic as standard. Distortion is measured as THD+N, automatically rejecting the fundamental frequency and calculating the THD+N value in dB or percent. A set of audio weighting filters can be achieved in all measurement functions. A balance indicator continuously monitors and displays the quality of the signal balance giving immediate detection of defective or cable wired incorrectly. Results are displayed on a high resolution 100 x 64 pixel backlit LCD as numerical values, a bargraph when in meter mode, or recorded as a curve versus frequency in sweep mode. The scope is autoranging and autoscaling. The intuitive user interface is based on pull down menus providing quick access to the different functions, modes and menus. It is powered by 3 standard AA batteries.



ML-1 Minilyzer \$279.00

Hotlinks to Vendors @

www.bgsfl.com

www.broadcastdealer.com

Test Equipment

Potomac AA51A

Automatic Audio Analyzer

The Potomac AA51A Automatic Audio Analyzer features: RFI shielding • balanced, stereo inputs • total harmonic distortion meter (20Hz to 20kHz) • intermodulation distortion meter (60Hz and 7kHz composite) • AC voltmeter (10Hz to 100kHz, 0.3mV to 30V(Full Scale.)) • S+N/N meter (20Hz to 20kHz) • phase meter (± 180 degrees, 20Hz to 20kHz) • wow and flutter (0.1% to .3% (Full Scale) peak weighted) • ratio meter • and frequency counter.



AA-51A Automatic Audio Analyzer \$4,450.00

Potomac AG-51

Stereo Audio Generator

The Potomac AG-51 Stereo Audio Generator features: RFI shielded • transformerless stereo outputs, balanced and unbalanced, 600 Ω and 150 Ω , automatic signal leveling with self test feature • stereo matrix switch (L, R, L+R, L-R) • precision attenuators (10dB, 1.0dB, 0.1dB) • low distortion sine generator (20Hz to 200kHz) • composite intermodulation test generator (60Hz and 7kHz @ 4:1 • 3.15kHz wow & flutter signal generator (SMPTE standard frequency).



AG-51 Audio Generator \$4,030.00

Radio Design Labs RU-OSC4A & B Oscillator

The RDL RU-OSC4A & B Oscillator is for anywhere you need reference tones to verify audio system response. Manually selectable audio tones, line level balanced/unbalanced output and gain trim for each frequency. Output connections are made on the rear panel through full-size barrier block terminals. The RU-OSC4A features 4 separate audio oscillators operating at 100Hz, 1kHz, 7.5kHz and 15kHz. These frequencies provide quick, automatic verification of audio frequency response through a piece of equipment or an entire audio chain. A 'silent' period between the 15kHz tone and the 100Hz tone provides time to verify system noise levels.



RU-OSC4A \$271.00

RU-OSC4B \$271.00

Radio Design Labs ST-NG1

Random Noise Generator

Radio Design Labs ST-NG1 is ideal where random white or pink, mic and/or line level noise signal is needed. It is suitable either as a reference noise source for audio measurements or as a masking noise source. It produces no repetitive frequency or amplitude pattern. PS24A (\$19) power supply optional.



ST-NG1 \$128.00

Radio Design Labs ST-OSC2A/B

Dual Audio Oscillator

Radio Design Labs ST-OSC2A/B is a Dual Audio Oscillator with adjustable levels anywhere you need: Precision sine-wave audio signal • Amplitude-stable oscillator • and Dual tone oscillators.



ST-OSC2A 1kHz and 10kHz \$104.00

ST-OSC2B 100Hz and 400Hz \$104.00

PS24A Power Supply \$19.00

Rolls CT1 Cable Detective



The Rolls CT1 cable detective, will cross-test cables like 1/4" to XLR, 1/4" to RCA etc. Now tests MIDI cables. Note CT1 does not ship with a power supply.

CT-1 Cabel Detective \$60.00

PS-12 12 Vac Adapter \$12.00

TerraSonde The Audio Toolbox



The Audio Toolbox™ provides a comprehensive set of audio tools in an affordable, easy-to-use package. Utilizing DSP technology and pro-quality analog audio stages, a graphical backlit LCD display, encoder input control, built-in microphone, speaker, fully-balanced XLR and 1/4" inputs and outputs, unbalanced RCA, and MIDI in and out. The Audio Toolbox has dozens of uses for every sound/video/film engineer or contractor. AC and battery powered. Acoustic Analysis Tools in-



clude: sound level meter • real-time analyzer • reverb decay time • energy time graph • polarity tester • and noise criteria. Test Functions include: signal generator • level meter/frequency counter • signal-to-noise ration • sweeps • sample scope • and distortion meter. Utilities features include: monitor amp • cable tester • power tests • PC/Mac interface • setup & calibration may be field re-calibrated. Session Helpers include: instrument tuner • tempo computer • MIDI helper • MIDI transmitter • time code tools • and hum cancellation.

The Audio Toolbox .. Portable (plastic) \$999.00

The Audio Toolbox .. Rack-mount Version w/large screen, 2U \$1,785.00

ATB+ Portable Audio Toolbox (metal enclosure) \$1,699.00



Broadcasters General Store

2840 S. E. 52nd Street
Ocala, Florida 34480-7500

1-352-622-7700

Test Equipment • Maintenance Supplies

Ward-Beck M405P Extended Range VU Meter

The Ward-Beck M405P Extended Range VU Meter is a battery operated, portable instrument designed for the measurement of transmission, noise and VU levels throughout an audio system. The instrument produces a 9 VU indication on a 3-1/2" meter for input levels from -50dBm to +30dBm over a 20Hz to 20kHz bandwidth. An input attenuator, calibrated in 2dB steps, accommodates the full 80dB range in one continuous 300 degree rotation. A front panel selector switch is provided to permit the M405P to operate in the 600Ω terminated or HiZ bridging mode. In addition, a 60Hz notch filter may be switched in to allow measurements if hum is present. The power on/off switch includes a test position to check the charge on the internal batteries. Inputs to the M405P are via an XLR3(F) connector or a 1/4"TRS jack. A front panel 1/4" jack allows for aural monitoring of the measured signal with a high impedance (typically 400Ω) headset.



M405P Portable Extended Range VU Meter \$975.00

Ward-Beck ABB-1 Audio Bit Buddy

The Ward-Beck Audio Bit buddy monitors both digital (AES/EBU, S/PDIF) and analog audio signals. Digital and analog program audio can be monitored by the headphone output while the L/R levels are displayed on LED bargraph meters. Critical signal parameters such as sampling frequency, emphasis, professional/consumer format and data errors are displayed when monitoring AES/EBU or S/PDIF signals. Digital input monitors sampling frequencies from 30kHz to 50kHz automatically.



ABB-1 Audio Bit Buddy \$625.00

Ward-Beck ABS-1 Audio Bit Spitter

The Ward-Beck Audio Bit Spitter is a portable, battery powered unit that generates digital and stereo analog audio test signals that may be injected into the signal path when testing device performance or signal path continuity with an Audio Bit Buddy, POD11 Digital Audio Meter, M445 Extended Range Meter or any other audio monitor or metering device. The ABS-1 generates an AES/EBU digital audio signal, 1kHz

or 400Hz, at 48kHz, 44.1kHz or 32kHz. The unit may also be synchronized to an external digital reference signal. Digital signal levels of -20, -12 and 0dBFS are front panel selectable. Stereo analog tones of 1kHz or 400Hz may also be selected at levels of -16, -8 and



+4dBu. To distinguish between the CH A and CH B (left and right) signals, the unit provides the option to cycle and/or invert the CH B (right) signal or to turn off completely. A send invalid function on the ABS-1 sets invalid bits in the AES/EBU bit stream.

ABS-1 Audio Bit Spitter \$625.00

Whirlwind Qbox® Audio Line Tester



The Whirlwind Qbox® is the all-in-one audio line tester that you'll want in the toolbox every time you do field audio. In one battery powered box you have a microphone, a speaker, a test tone generator, outputs for standard headphones or a 2kΩ earpiece, and voltage presence monitoring for phantom or intercom power. You can talk into it, listen to it, watch it, and clip it on your belt or cable reel for easy access. The Qbox is made from a rugged, lightweight industrial composite to withstand the wear and tear of fieldwork. It's powered by a single standard 9V alkaline battery that is easily replaced without tools. Plug in a dynamic mic to give it a quick test, leave the internal speaker powered as a squawk box from the console, or use the internal mic to talk back up the line. It's all easy with a Qbox! The SOURCE selector lets you send a 440Hz tone or the signal from the Qbox's built in condenser mic back to the main console at +4, -20 or -50dB levels. The SPEAKER selector lets you test dynamic mics and confirm mic or line level signals.



Qbox Audio Line Tester \$199.95

Whirlwind Cable Tester

This Whirlwind Cable Tester can test cables with any combination of XLR, 1/4" or RCA phono plugs for shorts, opens and phase. The hands-free design allows manipulation of cable to locate intermittence. An on/off switch is provided, with LED to indicate sufficient testing power. Belt clip included.



Tester \$109.95
Tester2 New using digital circuitry to test \$142.00

Maintenance Supplies • Erasers

AudioLab TD-1B

AudioLab TD-1B Erases audio, video, computer data, magnetic films, cartridges, and diskettes • For standard tapes up to 1/2 inch in width • Accommodates up to 10-1/2 inch NAB reels • Positive results every time with a simple two pass operation • Transient protection to prevent permanent tape damage • Thermally protected. (Won't erase DATs).



TD-1B 117VAC, 50-60Hz \$145.00
TD-1BF 230VAC, 50-60Hz \$150.00
2400-007 NAB Hub adapter \$7.00

Fidelipac 400

Fidelipac's Model 400 is a powerful bulk eraser, providing over 2000 Gauss of erasure power. Featuring a scuff resistant laminate top, die cast zinc edge guide, removable aluminum pivot pin, and non-skid rubber feet, it will efficiently erase reel sizes up to 11" in diameter.



Model 400 Table top, 110VAC \$225.00

AudioLab TD-4A

The AudioLab TD-4A erases: audio, video and data tapes; U-Matic cassettes up to 750 oersted and reels up to 16 inches in diameter and 1 inch in width • provides a 2550 effective Gauss field in HI mode • built-in timer has adjustable "ON" cycle and automatic shut-off • automatic cooling fan operation • overheat light with automatic thermal protection prevents exceeding duty cycle on HI position • thermal protection resets to normal operation automatically • high/low operation with continuous duty erasing on low position for most tapes • standard 5/16 inch center post with 3 inch NAB hub supplied. This would be the minimum required to erase DATs.



TD-4A 110-125VAC, Specify 50 or 60 Hz \$950.00

Fidelipac 395 BLANK-IT

The Fidelipac 395 BLANK-IT is made of molded unbreakable lightweight plastic. It supplies 1550 Gauss of erasure power at 1/4 inch from its base center, and will perform at a longer duty cycle than similar units.



Model 395 Handheld, 110VAC \$125.00
Model 395-FP 2-pack felt base pads \$6.00

Test Equipment • Maintenance Supplies



American Recorder Technologies

DVD/CD Cleaner

Removes unwanted dirt, dust & fingerprints from disc surface that causes audio skips and video distortion. Includes a 1 ounce bottle of non-alcohol disc cleaning solution, cleaning brush, extra pads, all in a custom folding case.

- KCD-101A DVD/CD Cleaner \$15.00
- CD-101P Manual DVD/CD Cleaner-polybag \$8.00
- CD-102A 3 Replacement Pads for CD-101P \$5.00
- CD-121A Rotary CD Cleaner Kiet \$15.00
- CD-122A 2 Replacement Pads for CD-121A \$5.00
- CD-103A Disc Cleaning Fluid 1.5 oz./spray bottle \$6.00
- LD-101P Laser Disc Cleaner-polybag \$15.00
- LD-102 2 Replacement Pads for LD-101P \$6.00

Laser Lens Cleaner

Laser lens cleaner featuring a "dual brush" design.

- LL-151 Laser Lens Cleaner \$8.00
- LLCD-1 LL-151/CD-121A Combo Kit \$15.00

Cleaning Fluid

The S-721H will provide strong cleaning ability with quick evaporation and can be used to clean all metal and plastic heads, guides, and pinch rollers.

- S-721H-2 Head Cleaner 2 oz. \$8.00
- S-721-H-Q Head Cleaner 1 Quart \$24.00



Cassette Cleaners

- C-911B Cassette Cleaner w/ 1/2 oz. fluid \$8.00
- C-912B Replacement Pads for C-911 (3 sets) \$3.00
- K-141 C-911B/c-912B with storage case \$15.00
- K-151 ... C-911B/D-501 Demag with Storage Case ... \$24.00



Applicators & CO2 Dust & Particle Remover



- VS-1B Video Chamois Swabs, Bag of 25 \$16.00
- CS-1 Audio Cotton Swabs, Bag of 100 \$4.00
- CS-2 Cotton Swab, Pointed Tip, Bag of 100 \$5.00
- WP-1 Non-Lint Wipes, 4.5x4.5, Pack of 100 \$6.00
- CO-2 CO-2 Particle Duster \$20.00
- CO-2/6 6 Pack of 12 gram cartridges \$7.00
- CO-2/12 12 Pack of 12 gram cartridges \$12.00
- CO-SOFT Soft Pack only - holds dispenser & 5 cartridges \$20.00
- CO-SOFT-D .. Soft Pack with CO-2 and 5 cartridges \$40.00

DAT-101D ADAT & Dat Cleaners

- AD-171.....ADAT Cleaner S-721H-2, VS-1, carry bag \$32.00
- AD171D.....Same as ADAT-171, includes CO-2 & CO-2/3 \$60.00
- AD-1000 2-311B, IVS-1B, CO-2, CO-2/6, S721H-2, Case \$120.00
- AD-311B ADAT Cleaner with 1/2 oz. S-721H \$20.00
- DAT-101 DAT Cleaner-Wet, 1/2 oz. S-721H \$30.00
- DAT-101D . DAT Cleaner- Dry \$15.00



VHS Recorder Cleaner

Wet cleaning system that removes harmful oxides and other contaminants from tapepath. Includes 1/2 oz. bottle of cleaning fluid.



- V-311B VHS Recorder Cleaner \$15.00
- V-331D 8mm Cleaner-Dry \$20.00
- V-331 8mm Cleaner-Wet, 1/2 oz. S-721H \$32.00



Demagnetizers

- D-501 Electronic Cassette Demagnetizer \$12.00
- D-512 Wand Demagnetizer \$30.00
- K-161 S-721H-2, D-512, CS-1, Carry Bag \$40.00

Test Equipment • Maintenance Supplies

CAIG Laboratories, Inc.

DeoxIT dissolves oxides and sulfides that form on metal contact surfaces. This restores the contact's integrity and leaves a thin (organic) layer that coats and protects the metal. Available with petroleum naphtha solvent (5%), or without (100%). General purpose treatment.

R5 Power Booster is formulated to provide improved deoxidizing, cleaning, preserving and lubricating characteristics. The new R5 is non-flammable, fast evaporating, safe on plastics and environmentally safer than the previous R5. The spray is in a new precision pump, providing a safe alternative to pressurized aerosol cans. (Recommended replacement for Cramolin R5).

PreservIT seals, lubricates and preserves metal surfaces against oxidation and contamination. It provides long-lasting protection for newly manufactured components or those cleaned by ultrasonics, DeoxIT or other procedures.

ProGold is a conditioning solution that improves conductivity, lubricates and provides long-lasting protection on gold, silver, rhodium, copper, nickel and base metals. ProGold is the only product that actually penetrates plated surfaces, molecularly bonds to the base metals and seals & protects both surfaces. Available with petroleum naphtha solvent (5%), or without (100%). Maximum performance and protection for plated connectors and contacts.

ProGold GXL is formulated for maximum performance and protection for critical metal connections. ProGold improves conductivity for greater definition and dynamics, reduces noise and interference, and lowers distortion. It also stabilizes connections between similar and dissimilar metals. Provides long-lasting protection (1-10 years) on gold, silver, rhodium, copper, nickel and other precious metals. The new GXL is nonflammable, fast evaporating, safe on plastics and environmentally safer. The GX5 spray is also available in a new precision pump, providing a safe alternative to pressurized aerosol cans. Temperature range -45° to 400°C. Ideal for plated metal contacts and connectors.

CaiLube MCL is a precision lubricant and enhancer for plastic moving contact surfaces (faders, switches, potentiometers, mouse pads and other mechanisms with sliding surfaces). Over time these components lose their original lubrication from wear and repeated cleaning. The 5% spray is ideal in flushing away contamination that may have collected on the contact. The 100% spray and liquid were formulated to provide lubrication only. CaiLube MCL is not a deoxidizer or cleaner, use ProGold or DeoxIT for this function.

CaiKleen A/V is a precision cleaning solvent for magnetic and optical read/write heads. Removes dirt, grease, nicotine, metallic oxides and tape residues from surfaces. Use it on tape heads (magnetic & optical), digital tape decks, audio/video tape decks, VTR/VCR recorders and industrial tape equipment.

CaiKleen RBR is a precision cleaner for rubber rollers, parts and platens. Ideal for computers, printers, copiers, fax machines and other office and industrial equipment. It will rejuvenate rubber and reduce misfeeds and jams.

DustALL is a precision air duster that removes dirt, lint and particles quickly and safely from electronic equipment. It is packaged with a precise one-piece trigger valve and extension tube for controlled application.

FreezALL cools circuits to -54°C and locates intermittent components due to heat failure, hair-line cracks on printed circuit boards and provides low temperature testing of electric circuits. It is packaged with a precise one-piece trigger valve and extension tube.

CAIG Laboratories, Inc. makes high quality, environmentally safe cleaners to improve conductivity and maintain optimum signal quality on electrical connectors and contacts. CAIG formulations are highly concentrated - only small amounts are required (typically one quick spray or drop per application).



D5S-6	DeoxIT Spray, 5% Solution, 5 oz.	\$8.95
D5MS-15	DeoxIT Mini-Spray, 5% Solution, 15 g. (pocket sized - ideal for tool kits)	\$5.95
D100S-2	DeoxIT Spray, 100% Solution, 2 oz.	\$12.95
D100L-25C	DeoxIT Needle Dispenser, 100% Solution, 25ml	\$17.95
K-D50W	DeoxIT Wipes, 100% Solution, 50 each	\$10.95
R5PS-6	R5 Pump Spray, 5% Solution, 125 ml	\$24.95
R5MS-15	R5 Mini-Spray, 5% Solution, 20 ml	\$12.95
P5S-6	PreservIT Spray, 5% Solution, 5 oz. (recommended replacement for Cramolin B5-6) ...	\$9.95
G5S-6	ProGold Spray, 5% Solution, 5 oz.	\$15.95
G5MS-15	ProGold Mini-Spray, 5% Solution, 15 g (pocket sized - ideal for tool kits)	\$9.95
G100S-2	ProGold Spray, 100% Solution, 2 oz.	\$24.95
G100L-25C	ProGold Needle Dispenser, 100% Solution, 25ml	\$49.95
K-G50W	ProGold Wipes, 100% Solution, 50 each	\$18.95
GXP5S-6	ProGold GX Pump Spray, 5% Solution, 125 ml	\$29.95
GX5MS-15	Pro Gold GX Mini-Spray, 5%, 20 ml	\$14.95
K-100A	DeoxIT and PreservIT (100%) in 7.4 ml vials with brush applicators, lint-free cloths, paper swabs, cleaning brushes	\$21.95
MCL100S-L2	CaiLube MCL Spray, 100% Solution, 2 oz.	\$12.95
MCL100-L25C ..	CaiLube MCL, Needle Dispenser, 100% Solution, 25 ml	\$17.95
MCL5S-H6	CaiLube MCL Spray, 5% Solution, 5 oz.	\$9.95
AV100PS-6	CaiKleen A/V Pump Spray, HCFC Blend, 150ml	\$12.95
K-AV100P	CaiKleen A/V Pen, HCFC Blend, 12ml	\$12.95
RBR100PS-6	CaiKleen RBR Pump Spray, Concentrate, 150ml	\$12.95
RBR100L-25C ..	CaiKleen RBR Liquid, Needle Dispenser, Concentrate, 25ml	\$7.95
DT3PS-10	DustALL Spray, HFC, 200ml	\$12.95
FZ7PS-10	FreezALL Spray, HFC, 200ml	\$12.95
LFC-100	Lint-Free Cloth - Polypropylene, box of 100	\$4.95
LFC-C/100	Lint-Free Cloth - Cotton, box of 100	\$8.95

Alcorn McBride, Inc. DVM/HD

High Definition Video Player

The Alcorn McBride Digital Video Machine DVM/HD provides the ultimate playback, even better than HDTV, with picture sizes up to 1920x1080 and bit rates over four times those of broadcast DTV. It also supports ATSC DTV formats including 720p



and 1080i. Its RGB and YCrCb outputs assure maximum video quality; and multi-channel audio outputs (both analog and digital) provide better-than-CD quality. Features include: serial and discrete control • digital broadcast interfaces • update content via Ethernet/Internet • supports ATSC DTV formats and more • and stores over 1 hour of HD Video.

DVM/HD Digital Video Machine-----Starting at \$10,000.00

Video Products Now in Our Line Up

360 Systems Digital Recorders Page 131	Intelix Page 218
ADC Patchbays & Cables Page 38 - 45	Kramer Video Switchers & DA's & More Page 208
ADTEC Please Call	Leprecon Lighting Please Call
Alcorn McBride Digital Video Machine Page 204	Lowel Lighting Please Call
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Broadcast Video Systems .. Keyers & More Please Call	Matrox Graphics Excellerator Card Please Call
BUHL Presentation Products, Projectors & Accessories ... Call	Miranda Decode, Encode & More Page 211
Burst Electronics Page 205 & 208	Network Routers/Converters/Video DA's Page 209 & 211
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Calculated Industries Frane & Time Calculator Please Call	Omnivideo Multi Video Display Please Call
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DOREMI Page 204	PROVIDEO CCTV Please Call
DWIN Video Products Please Call	Radio Design Labs ... Problem Solvers Page 50 - 51 & 209
ERGO Keyboards, Monitors & Rack Kits Page 205	Sachtler Lighting & Camera Support Systems Page 213
ESE Clocks, Timers & Video DA's .. Page 177 - 179, 205 & 208	Stewart Film Screens Please Call
ETS Balun's Page 218	Telex Earbuds & Accessories Page 30
Evertz Routers/Logo Inserter/Encoder Page 210	VARIZOOM Lens Control Please Call
Extron Video Switchers & DA's & More Please Call	Video Accessories Page 209
Fast Electronics Digital Video Editing Please Call	VIDEOTEK Routing DA's & More Please Call
Feral Page 210	Viewsonic Monitors & Screens Please Call
FUJI Please Call	Ward Beck Video DA's/Routers/Switchers Page 58 & 209
Fujinon Please Call	Winsted Furniture & Racks Please Call
Graham Patten Audio/Video Mixers Please Call	Wohler DTV Page 213
Hotronics TBC/Frame Sync/Delay Page 210	Y/C Plus Adaptors, Monitor & More Please Call

Doremi Labs V1 Random Access Video Recorder/Player

The Doremi Labs V1 is a high-quality Video Disk Recorder/Player designed to record and playback video and audio using hard disks or optical cartridges. It consists of a 3U rackmount unit with a full function remote control and 2 drive bays that can house hard disk drives or a removable M.O. The V1 records 1 video channel, 2 audio channels and Time Code (VITC and LTC). The video



data is compressed using Motion-JPEG standards (4:1 up to 32:1) and recorded along with the audio and the time code onto the hard disk drive. Features include: NTSC or PAL • RS-422 serial Sony 9-pin control • high-resolution (CCIR 601) 2-field picture • instant pictures on locate • 2-channel audio at 48kHz • scrub video in sync with audio at all speeds • and universal serial 9-pin remote control.

V-1 Random Access Video Recorder/Player---Starting at \$5,995.00



Broadcasters General Store
1-352-622-7700



Burst Character Generators



There are three members of the Micro Character Generator family, the MCG-3, MCG-2 and RCG-3. The MCG-3 Color CG is a genlockable unit that accepts NTSC video and overlays color characters with a selectable color background. The MCG-3 can also run in the stand alone mode, without a video input. It can be programmed to detect loss of video input and display a message. There are 8 colors with 16 character sizes from 28 to 72 scan lines. Page construction is 24 characters per line by 10 lines per page with a ten page memory. The MCG-3 includes built-in menus, help screens, and self test. Text input is via front panel push-button or RS-232. Real Time Clock option available for the MCG-2 & MCG-3. The MCG-2 outputs b/w characters in a 20 character/line, 9 line/page format. The RCG-3 is a MCG-3 minus the front panel controls, operation is RS-232 only.

- MCG-2 \$395.00
- MCG-3 \$495.00
- RCG-3 \$395.00



Burst Video Switchers with RS-232 Control



The VS4x1 is a four input, one output vertical interval video switcher. All four inputs (and output) are dc clamped to ground reference. This provides jump free switching between genlocked sources. A special feature of the VS8x1 is digital logic (jumper selectable) that inhibits the selection of an unused input, I.E., one where no video is present. The 25Mhz bandwidth and low differential phase and gain assures clean video. Plus RS-232 (optional) allows remote operation. The VS8x1 is an eight by one version with dual outputs.

- VS4x1 \$249.00
- VS8x1 \$349.00



Burst Digital LOGO Generator



The LG-1 Digital LOGO Generator/Insertor is a video graphic overlay unit that imports a PC generated graphics file and overlays that graphics on video. The graphics window is 256 pixels (approx 1/3 screen width) wide by 64 scan lines and may be placed anywhere on the video screen. The image is adjustable in gray scale (0 to 100%) and transparency. The LG-1 has an internal mixer and keyer with fade and intensity control. This allows for a smooth up/down transition of the overlaid graphics.

- LG-1+ Digital LOGO Generator/Insertor \$695.00



Burst Time Code Generator



The TC-3 SMPTE Time Code Generator/Reader allows the SMPTE TC to be generated on and read from 8 mm, 1/2", 3/4" or 1" tape. Features include: ability to generate window dubs, drop frame and The high legibility characters have user adjustable position and size, on the video display. The TC-3 also has selectable auto backtime of 0:30, 1:00, 1:30 and 2:00 minutes. The longitudinal TC is recorded on an audio channel or a separate TC channel, if the recorder is so equipped. The time code then can be read back at play speed. Y/C version available.

- TC-3 SMPTE Time Code Generator/Reader \$419.00



ERGO Keyboards, Monitors & Rack Kits

Ergo manufactures economical rackmounts for: equipment slidekits, monitors, keyboard shelves, computer chassis, touchpanels and touchscreen monitors. Please visit our website or call for more information.



Computer Keyboard Shelves

- E2CKS-1 Full size sliding Keyboard Shelf 2/o Keyboard \$209.95
- E2CKS-4 1U Sliding Keyboard Shelf, Incl. Keyboard & Trackball \$279.95
- E2CKS-4M 1U Sliding Keyboard Shelf, Incl. Keyboard & Trackball \$279.95
- E2CKS-3 3U Sliding Keyboard Shelf, Incl. Keybd., Trackball & 12.1" TFT Monitor \$1,495.00
- E2CKS-5 4U Sliding Keyboard Shelf, Incl. Keybd., Trackball & 15" ViewableTFT Monitor \$1,995.95

Rackmount Monitors

- E2SVGA-14 ... 14" SVGA Monitor (1024x768) Digital Registration \$435.00
- E2SVGA-15 ... 15" SVGA Monitor (1280x1024) Onscreen Registration \$535.00
- E2SVGA-17 ... 17" SVGA Monitor (1280x1024) Onscreen Registration \$735.00
- E2SVGA-17S .. 17" SVGA Monitor (1600x1200) Onscreen Registration \$799.00

Rackmount Touchscreen Monitors

- E2TS-14 14" SVGA Monitor (1024x768) Digital Registration \$949.00
- E2TS-15 15" SVGA Monitor (1280x1024) Onscreen Registration \$999.00
- E2TS-17 17" SVGA Monitor (1280x1024) Onscreen Registration ... \$1,350.00
- E2TS-17S 17" SVGA Monitor (1600x1200) Onscreen Registration ... \$1,375.00

Computer Chassis

- E2CC-1 19" RM Computer Chassis for Computers no more than 16" x 7" x 18" \$299.00
- E2-CC1R 19" Rackmount Computer Chassis w/Sliding Rackrails \$355.00

XGA Monitors

- E2XGA-17S 17" XGA Monitor (1600x1200) Onscreen Registration \$699.00
- E2XGA-1916 ... 19" XGA Monitor (1600x1200) Onscreen Registration \$1,075.00
- E2XGA-2116 ... 21" XGA Monitor (1600x1200) Onscreen Registration \$1,499.00

ESE ES305

News Talent
Count-down Display



ESE ES305 News Talent Count-down Display is mounted to a camera so talent can see the five bright orange lights that extinguish one at a time the way a director counts down. It can display a 5 second count-down or start with 5 seconds of steady lights prior to count-down. The ES305 can be operated from 120VAC 60Hz or 400Hz, or it can run on 12VDC. It comes in a black anodized case measuring 1.6"H x 10"W x 5" D and weighs less than 2 lbs.

- ES305 News talent count down display, camera mountable \$295.00

DNF Controls

ST300-S/SM Controller



ST300-S/SM Controller w/T-Bar



ST300-S/SM Controller with 4 Line Display

Same Unit for the 2MCE (Shows next Page)

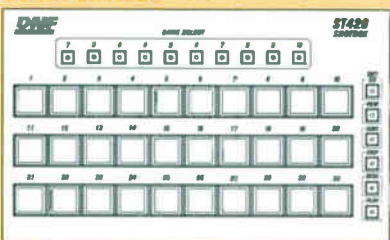
ST320 ShotBox



Peripheral Bus Interface Box



ST420 ShotBox



Clip Management Systems

200 Clip Instant Access system

2000CL-"X"	ST300-S/SM Controller, ST320 ShotBox & Shotlist Software	\$4,500.00
2000CL-"X"-T	Same as 2000CL-"X" w/T-Bar	\$5,000.00
2000CL-"X"-PBIO	Same as 2000CL-"X" w/Peripheral Bus Interface Option	\$5,500.00

400 Clip Fast Access System

4000CL-"X"	ST300-S/SM Controller & Shotlist Software	\$3,100.00
4000CL-"X"-T	Same as 4000CL-"X" w/T-Bar	\$3,600.00
4000CL-"X"-PBIO	Same as 4000CL-"X" w/Peripheral Bus Interface Option	\$3,600.00
4000CL-"X"-T-PBIO	Same as 4000CL-"X" w/T-Bar & Peripheral Bus Interface Option	\$4,100.00

3000 P- "X" Playlist Payout System

3000P-"X"	ST300-S/SM Controller with 4 Line Display	\$3,600.00
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Time Management Control System

DMAT Controller

DMAT-DL	ST300-S/SM Controller with DMAT Software for DoReMI Labs V1 DDR	\$3,000.00
DMAT-TX	ST300-S/SM Controller with DMAT Software for Tektronix Profile DDR	\$4,500.00
DMAT-SX	ST300-S/SM Controller with DMAT Software for Sony SX series Hybrid Recorder	\$4,500.00
-TSuffix	Adds a T-Bar Option to Above DMAT Controllers for an additional charge of	\$500.00

Cue Point Management Systems

200 Clip Instant Access System

2200TL-S	ST300-S/SM Controller, ST320 ShotBox & Time/Time Code Referenced Cue Points	\$4,500.00
2200TL-S-T	Same as 2200TL-S w/T-Bar	\$5,000.00
2200TL-S-PBIO	Same as 2200TL-S w/Peripheral Bus Interface Option	\$5,000.00
2200TL-S-T-PBIO	Same as 2200TL-S w/T-Bar & Peripheral Bus Interface Option	\$5,500.00

400 Clip Fast Access System

4200TL-S	ST300-S/SM Controller & Time/Time Code Referenced Cue Points	\$3,100.00
4200TL-S-T	Same as 4200TL-S w/T-Bar	\$3,600.00
4200TL-S-PBIO	Same as 4200TL-S w/Peripheral Bus Interface Option	\$3,600.00
4200TL-S-T-PBIO	Same as 4200TL-S w/T-Bar & Peripheral Bus Interface Option	\$4,100.00

Video Segment Management Systems

200 Clip Instant Access System

2400VS-"X"	ST300-S/SM Controller, ST320 ShotBox & Video Segment Software	\$4,500.00
2400VS-"X"-T	Same as 2400VS-"X" w/T-Bar	\$5,000.00
2400VS-"X"-PBIO	Same as 2400VS-"X" w/Peripheral Bus Interface Option	\$5,000.00
2400VS-"X"-T-PBIO	Same as 2400VS-"X" w/T-Bar & Peripheral Bus Interface Option	\$5,500.00

400 Clip Fast Access System

4400VS-"X"	ST300-S/SM Controller & Video Segment Software	\$3,100.00
4400VS-"X"-T	Same as 4400VS-"X" w/T-Bar	\$3,600.00
4400VS-"X"-PBIO	Same as 4400VS-"X" w/Peripheral Bus Interface Option	\$3,600.00
4400VS-"X"-TPBIO	Same as 4400VS-"X" w/T-Bar & Peripheral Bus Interface Option	\$4,100.00

Peripheral Bus Interface Box

PBIB-360	Peripheral Buss Interface Box for Digidart	\$1,250.00
PBIB-422	Peripheral Buss Interface box for VTR, DDR, Laser Disc	\$1,250.00
PBIB-SONYMD	Peripheral Buss Interface Box for Sony Mini Disc	\$1,250.00

ShotBoxes

ST320 ShotBox		\$1,700.00
ST320X-AC	For Accom Attache	\$2,250.00
ST420 ShotBox		\$5,000.00

DNF Controls

Slow Motion Controllers

ST300-SSM	Slow Motion Controller without T-Bar	\$2,800.00
ST300-SSM-T	Slow Motion Controller w/T-Bar	\$3,300.00
ST200-SSM	Slow Motion Controller	\$1,900.00

Editor

2MCE	Two Machine Cuts Editor	\$3,100.00
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Universal Parallel Interface

ST60-"X"-DRN	Dual Rackmount ST60 without Keypad	\$1,250.00
ST60-"X"-SRN	Single Rackmount ST60 without Keypad	\$850.00
ST60-"X"-DRK	Dual Rackmount ST60 w/Keypad	\$1,400.00
ST60-"X"-SRK	Single Rackmount ST60 w/Keypad	\$950.00

Universal VTR Controllers

ST30	Sony VTR Controller (Power Supply not Included)	\$300.00
ST100-"X"-TBL	ST100 Tabletop VTR Controller	\$1,150.00
ST100-"X"-SRK	ST100 Rackmount VTR Controller	\$1,250.00
ST200-"X"	ST200 VTR Controller	\$1,350.00
ST400	VTR/DDR Controller (Playlist Payout version only available)	\$4,500.00

VTR Controller Options

-SMRT	Smart Switch (For the ST60, ST100, & ST200 Universal VTR Controllers)	\$100.00
-SMTR	Smarter Switch (For the ST60, ST100, & ST200 Universal VTR Controllers)	\$200.00
-4L	4 Line Display Option (For the ST300-SSM & ST300-SSM-T Systems)	\$350.00

RS422 Port Switcher

SW32PS, RS422 32 Port Switcher

-32	32 Port Configuration	\$4,000.00
-24	24 Port Configuration	\$3,500.00
-16	16 Port Configuration	\$3,000.00
-8	8 Port Configuration	\$2,600.00

RS422 Switchers

SW1X8	1X8 RS422 Switcher	\$1,100.00
SW2X1	RS422 Electronic A/B Switch Card	\$400.00
SW2X1-1	1 SW2X1 Cards, Rackmount Housing, Power Supply	\$800.00
SW2X1-2	2 SW2X1 Cards, Rackmount Housing, Power Supply	\$1,200.00
SW2X1-3	3 SW2X1 Cards, Rackmount Housing, Power Supply	\$1,600.00
SW2X1-4	4 SW2X1 Cards, Rackmount Housing, Power Supply	\$2,000.00

Serial to Parallel Converter

SR60-"X"-DRN	Serial to Parallel Converter - Dual Rackmount without Keypad	\$1,300.00
SR60-"X"-SRN	Serial to Parallel Converter - Single Rackmount without Keypad	\$900.00

Programmable Interface

TIB350	Interface Box	\$2,000.00
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TBC Controller

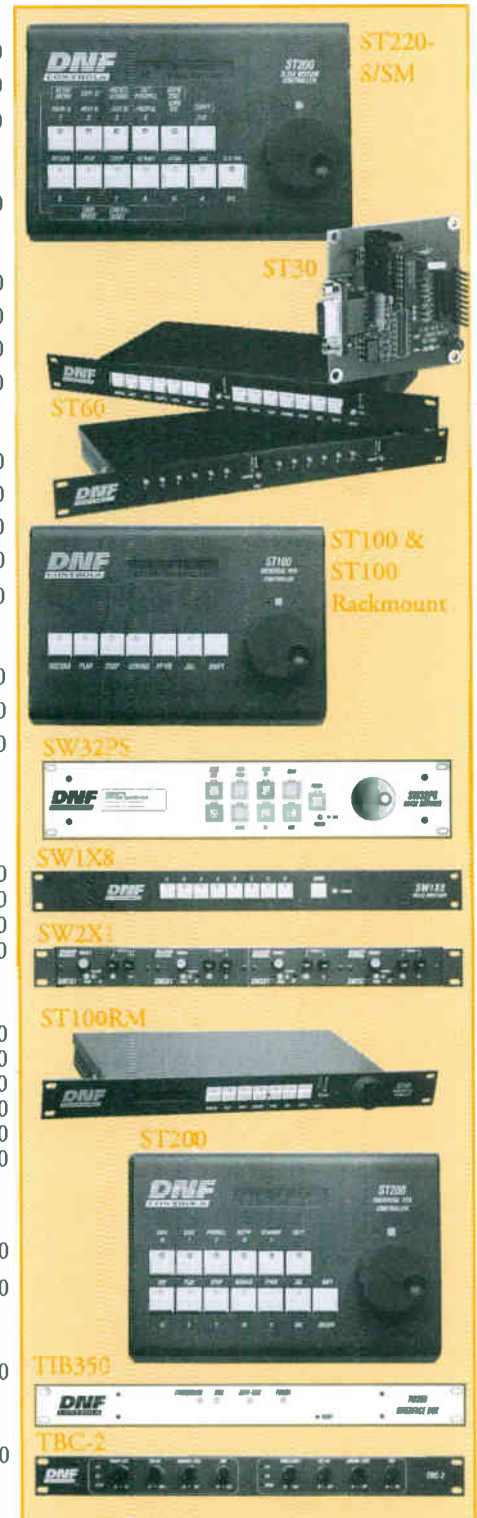
TBC-2	Dual TBC Controller (Specify Sony, DVCPRO, or JVC)	\$700.00
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Computer Interface

ST60-CS	Sony VTR Controller (RS232 Interface)	\$900.00
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Video Duplication Control Systems

ST60-"X"-DRN	Dual Rackmount ST60 without Keypad	\$1,250.00
ST60-"X"-SRN	Single Rackmount ST60 without Keypad	\$850.00
ST60-"X"-DRK	Dual Rackmount ST60 w/Keypad	\$1,400.00
ST60-"X"-SRK	Single Rackmount ST60 w/Keypad	\$950.00



Software Customization

ST60, ST100, ST200	\$150.00
ST300	\$300.00

DNF Controls can provide extensive software modifications to fit your needs. Please provide a detailed list of desired functions and fax or e-mail to BGS.

Video • Distribution Amps



Video Distribution Amplifiers	Configuration	Component	Composite	S/Video	I/O Conn.	Rack Mount	Power Supply	Remarks	Price	
Avitel VDA3310J	1x7	—	Yes	—	BNC	Modular- Reg'd ERF3390K-P1 3U, holds 14, has one Power Supply \$995	117Vac	Equalizing DA, Specify Belden 8281 or 8263 (RG59) Cable	\$245.00	
Avitel VDA3311J	1x7	—	Yes	—	BNC			Standard Video DA	\$175.00	
Avitel VDA3312J	1x7	—	Yes	—	BNC			ERF3390K-P2 3U, holds 12, has 2 Power Supplies \$1,395	AS VDA3310K w/One Output on Front Panel	\$295.00
Avitel VDA3314J	1x5	Yes	—	—	BNC			Both have Full DARTnet for R/C	Cable Equalizer for Belden 8281 Cable	\$695.00
Burst VDA-4-PC	1x4	—	Yes	—	BNC	N/A	Internal regulated bipolar power supplies/ powered by 12Vdc	Video DA card for IBM style PC	\$149.00	
Burst Micro DA	1x4	—	Yes	—	BNC	N/A		MicroDA 4.4"Wx2.4Hx1.3D	\$195.00	
Burst VDA-4	1x4	—	Yes	—	BNC	Opt.		Table-top or rackmount	\$195.00	
Burst VDA-8	1x8	—	Yes	—	BNC	Opt.			\$295.00	
ESE ES201	1x4	—	Yes	—	BNC	Opt. 1U P or P2 \$50	117Vac	4 Independent Set of Gain & EQ Controls	\$295.00	
ESE ES-207A	1x4	—	Yes	—	BNC	N/A	117Vac	Master Level EQ	\$175.00	
ESE PC-207A	1x4	—	Yes	—		PC Version of above			\$145.00	
ESE ES-208	1x12	—	Yes	—	BNC	N/A	117Vac	Master Level EQ	\$300.00	
ESE ES-209A	1x12	Yes	Yes	—	BNC	1U	117Vac	2x12 Audio DA/Master Level EQ	\$495.00	
ESE ES-224	1X24	—	Yes	—	BNC	2U	117Vac	24 Hour	\$850.00	
ESE ES-227	1x4	—	—	Yes	S/VHS	N/A	117Vac	Y/C Level, Y EQ	\$295.00	
ESE ES247A	Quad 1x6	—	Yes	—	BNC	1U	117Vac	Master Level EQ	\$495.00	
Kramer BCS-1005	1x5	—	Yes	—	BNC	Y	115Vac	Selectable Clamping Point	\$630.00	
Kramer BCS-1010	Dual 1x6	—	Yes	—	BNC	Y	115Vac	Has Input Loop Thru	\$805.00	
Kramer BCS-1020	1X20	—	Yes	—	BNC	Y	115Vac	Has Input Loop Thru	\$879.00	
Kramer BCS-1044N	1x4	Yes	—	—	BNC	Y	115Vac	Greater BW than BCS-1043	\$624.00	
Kramer MS-50V	1X5	—	Yes	—	BNC	Opt-\$40	12Vdc	Has Input Loop Thru	\$220.00	
Kramer MS-50S	1x5	—	—	Yes	S/VHS	Opt-\$40	12Vdc	Has Input Loop Thru	\$285.00	
Kramer VM-3V	1x3	—	Yes	—	BNC	N/A	12Vdc	4-5/8" Wide	\$140.00	
Kramer VM-3S	1x3	—	—	Yes	S/VHS	N/A	12Vdc	4-5/8" Wide	\$140.00	
Kramer VM-5ARN	1x5	—	Yes	—	BNC/RC-A	Opt-\$40	115Vac	1x5 Audio DA	\$460.00	
Kramer VM50R	1x50	—	Yes	—	BNC	Y	115Vac	Has Input Loop Thru	\$1,200.00	

Looking for a flexible workhorse?



VAC's distribution amplifiers now come with a variety of connectors and options that you can choose from.

Ideal for use in:
News Vans
Helicopters
Tight spaces
Indoors or Outdoors



Coming late in 2001:
Fiber Optic
Infra red products

VAC products are problem solvers in small packages.

2001



New options for:
power supplies
connector types
mounting holes
racking solutions
types of gain control

Video Accessory Corporation
2450 Central Ave. Suite G
Boulder, CO 80301

www.vac-brick.com
800-821-0426
303-443-1319



THE KEYS TO CONTROL.

The Name Of The Game Is Control.

When it has to be fast. When it has to be easy. When it has to be precise. DNF's DMAT Sports Controller is the key to putting you in control. DMAT's ST400 controller gives Sony MAV555s advanced sportscasting capabilities, including effects and super slomo recording.

Control the Action.

DMAT provides continuous record and simultaneous playback of sports action so you don't miss a thing!



ST400 Sports Controller

Control Your Slow Motion.

Developed specifically for demanding sports production, the ST400 has exclusive menu features, precision control, and

personalized control options to give operators everything needed for smooth, accurate replays.

Control Playback.

The fewest possible number of keystrokes completes all time-critical operations.

- Mark cue points with 1 key stroke.
- Recall cue points with 1 key stroke.
- Quickly access video segments for instant replay playback.
- Easily build and manage playlists for instant access to highlights.
- Fast, easy control of multichannel playback for cues, segments and playlists.
- View ST400 status on a video monitor.



ST420 SHOTBOX

Technical Directors Take Control.

When you really need fast and precise control, an essential key is DNF's Production Switcher Interface.

- Give your production switcher control of video servers, VTRs, DDRs, graphic and audio sources.
- Control one video server channel. Control multiple video server channels.
- Control load and play of pre-recorded audio, video, and graphic elements as part of pre-programmed timeline effect sequences.

Production Switcher



PBus

RS422

Video Server

Let Your Imagination Take Charge.

- Simultaneous access to multiple channels.
- One button access to pre-programmed sequences.
- Fast, accurate, repeatable effects.

The power to brand each broadcast with a unique identity is at your fingertips.

The ST420. A New Dynamic in Video Server Control.

The ST420 SHOTBOX is the master key to clip control in fast-paced broadcasts. The only SHOTBOX whose keys display the name of the video clip assigned to it, the ST420 sets a new standard in server control.

- Read the name of the video clip directly on the key it's assigned to.
- Press one key to load a single video clip, or a FILL clip & KEY clip combination.
- Quickly and easily assign and re-assign clips to a key
- Instantly access 300 single clips or clip combinations at the press of a button.

PUTTING YOU **DNF** IN CONTROL



12843 Foothill Boulevard, Suite D • Sylmar, California 91342 • p.818.898.3380 • f.818.898.3360 • info@dnfcontrols.com

www.dnfcontrols.com

World Radio History

Video • Distribution Amps



Video Distribution Amplifiers	Configuration	Component	Composite	S/Video	I/O Conn.	Rack Mount	Power Supply	Remarks	Price
Network V0106D	1x6	—	Yes	—	BNC	Y	120/240V	PAL, NTSC, HDTV, YC	\$512.00
Network AV0120	1x20	—	Yes	—	BNC	Y	120/240V	Looped Inputs	\$869.00
Network AV0110	1x10	—	Yes	—	BNC	Y	120/240V	Video/Audio DA	\$550.00
Network SD10106D	Dual 1x6	Yes	Yes	—	BNC	Y	120/240V	D.1 RS422/Component D.2 PAL Composite	\$594.00
Radio Design Labs RU-VDA4	1x4	—	Yes	—	BNC	Opt RU-B1 \$27	Opt PS24A \$18	Loop Thru, 1/3RU, Level Adjust	\$253.00
Shintron 336	1x6	—	Yes	—	BNC	Y	115Vac	Loop Thru & Level Adjust	\$350.00
Shintron CB100-VA	Dual 1x6	—	Yes	—	BNC	N/A	115Vac	Has Input Loop Thru	\$390.00
VAC CVB/VDA	1x4	—	Yes	—	BNC	Opt	12-24V	Corrects Hum & DC Offset	\$239.00
VAC CVDA-3	1x6	—	Yes	—	BNC	N/A	120Vac	Corrects Hum & DC Offset	\$423.00
VAC HN/VDA	1x6	—	Yes	—	BNC	N/A	12-24V	Loop Thru/Level & Null Adjust	\$319.00
VAC LTVB/VDA	1x4	—	Yes	—	BNC	Opt	12-24V	Loop Thru & Level EQ	\$193.00
VAC LTVB/VDA-AA	1x4	—	Yes	—	BNC	Opt	8-36Vdc	For ENG/EFP	\$239.00
VAC PDA-4	1x6	—	—	—	BNC	N/A	12-24V	Pulse DA for 0 to -4V Pulses	\$350.00
VAC VB/VDA	1x4	—	Yes	—	BNC	Opt	12-24V	Differential Input	\$182.00
VAC VDA-640	1x6	—	Yes	—	BNC	N/A	12-24V	Master Level Ctrl/Loop Thru	\$285.00
VAC XBVB/VDA	1x4	—	Yes	—	BNC	N/A	120Vac	Adjusts for 6 Outputs	\$279.00
VAC YCVB/VDA	1x4	—	—	Yes	S/VHS	Opt	12-24V	Y & C Level Adjust	\$239.00
Ward-Beck POD15	1x6	—	Yes	—	BNC	RMK-1- or 2 \$50	115/230V	Level trim & a 7th output split on the front panel!	\$275.00



Ward Beck 8200 Series Distribution System

The 8200 Series is a modular solution for the distribution and conversion of audio and video signals. The two standard frames of this system are the MF-82/10 and the MF-82/12. The MF82 frame occupies two vertical units of rack space. The MF-82/12 can house up to twelve 8200 series cards and two power supplies, while the MF-82/10 can house up to ten cards and two power supplies. Headers for each amplifier slot are accessible from the rear of the frame. Terminal interface assemblies for the appropriate amplifier card plug into these headers to allow for input and output connections. When distributing signals on BNC terminations, the MF-82/10 frame provides space for loop through inputs and 8 outputs per card, while the MF-82/12 terminations have terminating inputs and 6 outputs. Each MF82 frame is equipped with an AES



and a video reference input connector. These two inputs are on 75Ω BNC connectors, located on the rear panel. The hinged, quick release front panel facilitates rapid access to controls and tallies located on the front edge of the amplifier cards. During installation and system setup, the panels may be easily removed to afford unobstructed access to all cards and their controls and tallies. Power supply redundancy in the MF82 frame is carried through the primary mains to the separate switchmode supplies. Two separately fused AC power cords are provided. The switchmode supplies operation on 115V/60Hz to 230V/50Hz without any special setup and require 130 VA maximum. Current modules include the following.

- M8251 1x8 Video Distribution Amplifier \$90.00
- M8252 1x8 Video DA w/EQ and Clamping \$135.00
- D8201 AES/EBU Distribution Amplifier \$335.00
- D8202 Digital to Analog Converter \$285.00
- D8203 Analog to Digital Converter \$425.00
- D8204 Reclocking DA \$300.00
- D8204A 75Ω AES/EBU DA w/Analog Outs \$410.00
- D8205 Adj. Gain DA w/Sample Rate Converter \$675.00
- D8207 AES/EBU Sample Rate Converter \$440.00
- M8202 M8202B Remote Sensitivity DA \$200.00
- M8204 M8204A Stereo Analog Audio DA \$185.00
- M8205 M8205B Mono Analog DA \$135.00
- M8200 Remote Sensitivity/Transformerless Mic Preamp ... \$185.00
- M8201 Announce Ch. Control Module \$170.00
- M8203 Oscillator Module \$135.00
- M8206 Matrixing Audio Distribution Amp \$185.00
- M8207 Audio Compressor/Limiter \$185.00
- M8208 Remote Level Amplifier \$185.00

Video

Evertz HDTV Logo Inserter/Slate Generator



The Evertz HD9525LG Logo Inserter system is a complete package that will key one or many static/animated "bugs" over full bandwidth HDTV program video signal. Logos are stored in flash memory and may be downloaded to the system via an RS232 serial interface, or USB port for quick loading. The Install Logo software, included with the system, provides an easy to use Windows® interface for setup and off-line storage of Logs and Slates. Features: Stores and inserts static or animated logos • multiple simultaneous logos can be keyed with independent fade control • incorporates high quality variable transparency mixer that provides transparency and softedges to logos • full 10-bit linear fade-in and fade-out control provided • front panel, RS232/RS422 remote control and GPI contact closure • downloads from standard PC • stores up to 40 1/16th screen size logos in 1080i/1080p24 or 45 1/9th screen size logos in 720p format • optional memory for additional storage capability • optional secondary redundant power supply • optional remote control panel • optional Bypass Relay.

HD9525LG \$8,995.00

Evertz HDTV Routers



The Evertz X-HD9504 HDTV Video router routes 1.5 Gbps serial digital signals. Features include: Operates with generic SMPTE 292M video signals (1.5 Gbps) • Front panel or optional remote control panel operation • 130m automatic input cable equalization (Belden 1694) • Genlock referenced switch (accepts standard composite black & burst or tri-level sync signals) • GPI switch control • Optional redundant power supply control • Includes dual 4x1 AES routers for 4x1 video router.

X-HD9504 \$3,500.00

Evertz HDTV Video Router



The Evertz X-HD9512 series HDTV Video router routes 1.5 Gbps serial digital signals. Features include: Operates with generic SMPTE 292M video signals (1.5 Gbps) • Front panel or optional remote control panel operation • 130m automatic input cable equalization (Belden 1694) • Genlock referenced switch (accepts standard composite black & burst or tri-level sync signals) • Operational redundant power supply • GPI switch control.

X-HD9512 HD Video Router \$7,500.00

Evertz Digital Video Closed Captioning Encoder



The Evertz model 8074-MDM2 digital encoder has 5 serial ports, 2 internal Modems and 3 RS-232 ports. It also features a GPI input for relay bypass and a tally output on power failure. It accepts 525 or 625 component (4:2:2) or NTSC composite (4Fsc) digital video signals • encodes captions or text data in field 2 or field 2.

8074-MDM2 \$300.00

Feral QS-440 Quad Split

View & Manipulate Multiple Images on One Screen



The Feral QS-440 Quad Split is the first economical way to view and manipulate multiple images on one screen. The Quad Split combines four video inputs into one video output. Each input is independently scalable, allowing you to horizontally and vertically re-size and position each image with aspect ratio control plus, each input can be independently frozen to hold its display while moving the other inputs. The image re-sizing and transitions can be manually performed or pre-stored in memory for quick and easy recall. It has composite and Y/C inputs and outputs as well as NTSC and PAL video standards. It automatically detects and transcodes between formats. The genlock input and key output allow for easy integration with other equipment.

QS-440 \$2,495.00

Hotronic

Digital TBC/Frame Synchronizer Systems

Hotronic's main line of products are digital TBC/Frame Synchronizer systems and other products for NTSC and PAL.



AP41 TBC/Frame Synchronizer Y/C / composite I/O, full proc-amp control/Gen lock \$1,035.00
 AP41SW AP41 plus Digital Comb Filter \$1,350.00
 AP41SF AP41 plus S-VHS output, freeze frame/field, 16 speed strobe .. \$1,350.00
 DOC Option for AP41, Digital Pixel by Pixel, drop-out compensator \$200.00



AT61 10 bit Frame Synchronizer, Digital Comb Filter, Pass VIR/VIT, no quantization noise, Analog I/O \$2,400.00
 AT61F AT61 plus Freeze Field or Frame \$2,600.00
 AT61AU AT61 plus Analog Audio I/O \$3,600.00
 AR31 TBC/Frame Synchronizer \$625.00
 Remote AR31 Remote Control Panel \$100.00
 AX81 8x2 Asynchronized, video router \$2,200.00
 Audio AX81 Audio Follower (XLR) option \$750.00
 AQ21SP Broadcast TBC Switcher, Digital effects, Scaler, Down-stream keyer, Digital Comb. Filter, 3dB noise reducer .. \$4,000.00
 8A/V AQ21SP 8 Channel Video and 8 Channel Balanced Audio XLR inputs option \$1,400.00
 DOC Digital Pixel by Pixel, Dropout compensator option for AQ21SP \$400.00
 AR71-1 Dual Channel TBC/Frame Synchronizer w/1 remote control \$1,750.00
 AR71-2 Dual Channel TBC/Frame Synchronizer w/2 remote controls \$1,850.00
 PCTBC/Y/C .. PC-Based TBC/Frame Synchronizer Card Composite/Y/C I/O \$600.00
 Remote PCTBC/Y/C Remote Control Panel Option \$100.00
 AU51 20 Bit Broadcast Audio Delay \$2,000.00

1-352-622-7700

Miranda

Miranda features a collection of audio/video conversion and processing interfaces. The Imaging Series is a complete series of audio/video interface modules that consist of over 40 conversion, processing and distribution functions in a choice of 3 housing for 1, 4, or 16 modules. The largest of the series is the Symphonie

that holds 16 modules in a 4 rack unit frame by snapping in a corresponding rear module. Full power redundancy can be obtained by adding a second power supply that is hot swappable for easy maintenance. The Symphonie also offers air-forced cooling and thermal monitoring. The status for each imaging module and power supply is reported on the frames front panel multicolor LEDs. In addition, complete control of all parameters of the 16 imaging modules can be remotely accessed via the ICP control network. Symphonie provides an internal reference distribution feature that allows a common video or audio reference signal to be distributed to each module without external wiring or distribution amplifiers. The Symphonie frame features a totally modular architecture in which any module, video or audio, may be installed in any slot. Quarter frames are available in different versions to facilitate video or audio interconnection requirements and can accommodate up to four modules in any physical location within a 1 RU frame. The Quartet-RPS can be used to supplement the Quarter's power supply redundancy feature by fitting up to three extra power supplies in 1U. Each module comes with a configuration label which can be attached on the back of the housing unit, allowing you to clearly identify the function of each connector. The Solo is a single module imaging housing for desk top environments. Each Solo comes with its own power supply and RS-422 remote control port. Up to 16 Solos can be daisy-chained through the communication port while their interlock feature allows them to be stacked. All imaging are hot-swappable and all controls are accessible from the front of the unit or via the ICP control network. Remote control is standard in every imaging module via Version 3.0 of ICP-S, Miranda's NT based monitoring and control software. All modules in the imaging series provide remote access to key configurations and operational parameters via the high speed ICP imaging control network. This network allows multiple imaging housing frames and control workstations to be interconnected across a facility.



Symphonie

Some of the most popular cards of the more than 50 available are:

- ASD101i Component analog video to 4:2:2 converter \$1,995.00
- SDM101i 4:2:2 to component analog video converter \$1,495.00
- ASD221i NTSC/PAL to 4:2:2 decoder/frame synchronizer with TBC \$3,495.00
- SDM211i 4:2:2 to NTSC/PAL encoder with Genlock \$2,995.00

The Quanta stand-alone family of compact interfacing products provides solutions for a variety of signal handling, timecode processing, digital video and audio converters, timecode to RS232 readers, serializers/deserializers and a video to SGI gateway.

Kaleido is a multi-image display system with the features of a control room monitor wall in a single multi-window display. Kaleido is capable of simultaneously displaying up to 16 analog or digital video signals. Each window can be configured for 4:3 to 16:9 aspect ratios and can be independently sized and positioned. Source ID labels can be positioned over, under or inside the display window. The units dual outputs provides user selectable resolution allowing the output to be adapted to a variety of computer, projection, and plasma displays.



Please call for further information and pricing!

Matthey

Low Pass Video Filters & Video Delay Lines

Matthey • low pass video filters • very sharp cut (Brickwall) filters • 601 type filters • 422 filters • slow roll off filters • HDTV high frequency, low pass filters • triple filters • S.I.L. filters • D.I.L. filters • zero loss filters • hybrid video amplifiers • noise weighting filters • group delay equalizers • differentiating pulse networks • video attenuators. For a complete Matthey catalog, please give us a call.

Matthey Video Delay Lines are available in metal boxes with BNC connectors. They are designed to be used either as permanent rack mounted installations, or as temporary connections in test laboratories, outside broadcast units, or when timing a new installation. The metal boxes are strong, providing good protection to the delay line; and RFI shielding. Switches are all gold plated with low noise performance.



- NV180 Video delay for smaller than 180° of phase, 2ns steps and ±1ns trim ... \$371.00
- NV360 Video delay for up to 360° of phase, 2ns steps and ±1ns trim \$423.00

Modulation Sciences MSI-320

Precision Television Demodulator



Modulation Sciences' new MSI-320 Precision Television Demodulator is a revolution in video monitoring. The new, high quality precision demodulator provides advanced, accurate measurement and monitoring of a station's visual and aural signal at a fraction of what precision demods usually cost. The MSI-320 features Modulation Sciences' own, state-of-the-art contemporary design using the most advanced components and precision technology.

- MSI-320 Television Demodulator \$5,650.00

Network Electronics Network Systems Integration Equipment



Network Electronics is a designer and manufacturer of broadcast quality Digital & Analog Routing Switchers, Distribution Amplifiers, and A to D, D to A Converters. Network System Integration Equipment features ingenious ultra compact design with state of the art performance. Network equipment uses less power, gives off less heat & radiation, and has unique configuration expansion capabilities. Network Electronics

Systems Integration Equipment provides cost effective solutions for demanding applications, right off the shelf. All Network routers many be controlled with the MIDI bus and RS-232 port to facilitate remote control through PC's using Network CrossSoft Windows™ based software, or by a standard built-in local control panel. With concise open platform protocols, software is relatively easy to customize for individual selection status of the router when power is shut down. All Network products come with a three year warranty with immediate replacement. Network Electronics: revolutionary design, prompt delivery, and attractive prices. Please call for more information or check out our website.

Video • Video Markers

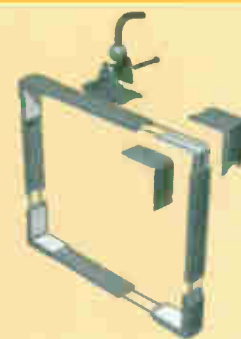


Omnimount ARC Adjustable Framing Support Systems

The Omnimount ARC Connections I are an adjustable framing support system. When the system is tightened, special pads with a high coefficient of friction compress against the enclosure surfaces. The eight pads in the four corners prevent any movement of the frame. They also conform to variations in contours on the enclosure and protect against marring or scratching. Two

independently functioning steel aircraft cables hold the framing system together. Each cable is rated to a test strength of 1,000 lbs. Either cable is capable of independently supporting the load, but the redundancy of using two cables provides an added margin of safety and strength.

Prices Range fro \$49.95 - \$950.00



Pointmaker by Boeckeler Instruments

Professional Broadcast Video Markers

The Pointmaker can be used to enhance a video presentation when connected between a video source and monitor. Drawing and pointing is accomplished either from the back of the room with a wireless remote control, directly on the monitor with a light pen, or with a digitizing tablet. The Pointmaker may also be operated with a touch screen (call for compatibility), or a computer (via RS-232C). Compatible with monochrome EIA RS-170, composite NTSC, Y/C (S-Video), RGB, VGA (PC) and most Macintosh sources and displays. Add the letter "C" to the model number for compatibility with CCIR and PAL video instead of NTSC.



Video Arrow. Joystick with BNCs for composite NTSC, or RGB with sync on green. (Optional cable YCX-10 (\$150) allows use with Y/C video equipment)

Video Marker. Compatible with composite NTSC, or RGB with sync on green. (Optional cable YCX-10 (\$150) allows use with Y/C video equipment)

Professional Broadcast Video Marker. Compatible with composite NTSC, or Y/C video equipment. Includes key out and sync delay features.

Chroma-System w/Broadcast Video Marker with touch-sensitive wall panel (4' x 5') for broadcast chroma-key. Compatible with composite NTSC, or Y/C video equipment. Includes key out and sync delay features.

External Delay Adjustment. Allows time delay adjustment of markers from a location other than where the tablet or light pen is being used.

External Cancel. Clears all markers from overlay from a location other than where the tablet or light pen is being used.

Multiple-Sync Video Marker. Multiple-sync capabilities for composite NTSC, Y/C, RGB, VGA, SVGA, and Macintosh. Includes videoconferencing features.

A/V Equipment Control Option. For the PVI-83 model. Allows RS-232 control of up to 9 A/V units.

Multiple Comm Port Option. For the PVI-83 model. Price does not include extra controllers.

Presentation System. Uses video scaling to transform composite, Y/C, and RGB inputs to high-resolution output.

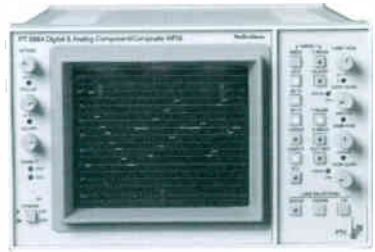
PVI-05	Video Arrow	\$395.00
PVI-40D	Video Marker, Includes DT-30 Digitizing Tablet	\$995.00
PVI-40L	Video Marker, Includes LP-32 Light Pen	\$1,095.00
PVI-44D	Color Video Marker, Includes DT-30 Digitizing Tablet	\$1,695.00
PVI-44L	Color Video Marker, Includes LP-32 Light Pen	\$1,795.00
PVI-64D	Professional Broadcast Video Marker, Includes DT-30 Digitizing Tablet	\$3,695.00
PVI-64DL	Professional Broadcast Video Marker, Includes DT-30 & LP-32	\$4,095.00
CS-64D	Chroma-System w/Broadcast Video Marker Includes Chroma-board, DT-30 Digitizing Tablet, extended cabling and drivers for both board, tablet, & rack mount kit	\$8,745.00
/DELAY	External Delay Adjustment	\$250.00
/CANCEL	External Cancel	\$100.00
PVI-73D	Multiple-Sync Video Marker, Includes DT-30 Digitizing Tablet	\$2,795.00
PVI-73L	Multiple-Sync Video Marker, Includes LP-32 Light Pen	\$2,895.00
PVI-83D	Multiple-Sync Video Marker, Includes Keyboard & DT-30 Digitizing Tablet	\$3,495.00
PVI-83L	Multiple-Sync Video Marker, Includes Keyboard & LP-32 Light Pen	\$3,595.00
/TROL	A/V Equipment Control Option, For use with PVI-83	\$650.00
/COMM-4	Multiple Comm Port Option, For use with PVI-83	\$600.00
/COMM-8	Multiple Comm Port Option, For use with PVI-83	\$900.00
PVI-X100D	Presentation System, Includes DT-30 Digitizing Tablet	\$6,495.00
PVI-X100DL	Presentation System, Includes DT-30 & LP-32	\$6,895.00

Please call for further information and pricing on accessories available for Pointmaker.

Video

ProTelevision PT 5664

Digital & Analog Component/Composite WFM



The PT 5664 combined analog and digital waveform monitor and vectorscope provides new dimensions in video signal monitoring, in component and composite environments. With its three different video input formats it is a natural choice in mixed analog and digital facilities. The instrument automatically adjusts to the television system supplied at the inputs. Features include: SDI input 525/625 lines • analog component input 525/625 lines • analog composite input (PAL/NTSC) • YPBPR, RGB, Parade and Overlay, Star and Vector display.

PT5664/50 Digital & Analog Component/Composite WFM \$5,106.00

ProTelevision PM5639/00 & PM5639/01

CRT Color Analyzer & Analyzer w/PC Interface

The CRT Color Analyzer, PM5639/00 is a unique tool for white balance alignment of broadcast monitors and computer graphic displays. It ensures a consistent and high picture quality in video editing. Features include: handheld, battery operated • graphic RGB and CIE chromaticity display • phosphor type independent • traceable to international standard, NIST and BIPM. The PM 5639/01 uses a PC as display, and comes with a software package.



PM5639/00 CRT Color Analyzer \$5,490.00
PM5639/01 CRT Color Analyzer w/PC Interface \$4,733.00

ProTelevision PM5639/82 & PM5639/83

Color Alignment Generators

Features include: battery operated handheld generator • standard and special patterns for alignment of color monitors, projectors and video walls.



PM5639G/82 Component RGB, YPBPR in 525 or 625 line versions \$938.00
PM5639M/82 Component RGB, YPBPR in 525 or 625 line versions \$938.00
PM5639G/83 Composite and Y/C in PAL or NTSC versions \$938.00
PM5639M/83 Composite and Y/C in PAL or NTSC versions \$938.00

Sachtler Lighting & Camera Support Systems



Sachtler continues to be a trend-setter in defining a new standard of innovation for lighting. Sturdy and lightweight materials, solid workmanship, and optimal ergonomics makes Sachtler lights a reliable companion.



Sachtler offers state-of-the-art technologies, optimal ease of use, and reliable service. Sachtler has the support you need for perfect camera work!

Wohler SDI Video Peripherals



The Wohler UB-1000 SDI Peripheral Chassis includes standard front panel and redundant PSU. It holds maximum two product 1000 cards.

UB-1000 SDI Peripheral Chassis \$1,595.00

The Wohler SQ-1000 Aspect Ration Converter allows you to pan & scan, compress or expand video output horizontally or vertically by any amount, without sacrificing a quality picture. With fully flexible zooming, SQ-1000 converts all aspect ratios bi-directionally. SDI I/O, EDH insertion, and 10-bit quality. Auto delay and Auto Tracking available. Includes Digital to Analog converter with RGB/YUV outputs.

SQ-1000 Digital Aspect Ratio Converter (Req's UB-1000) \$4,350.00

LK-1000 SDI Logokeyer Card uses a digital keyer to superimpose logos onto SDI program picture. Simultaneously stores four different logos and their preferences. Full position and opacity controls. 16:9 compatible. Designed to be trouble-free, yet remarkably cost-effective. Includes a Serial Digital Video input connector for logo aquisition. Options include plug-in Digital to Analog converter with RGB/YUV monitoring outputs.

LK-1000 Digital LOGO keyer Card (Req's UB-1000) \$3,750.00

CP-1000 SDE RGB Clipper/Legalizer Card makes serial digital video legal and valid. Features 10-bit throughout, constant hue feature, hard and soft clipping. Legalizes detail in sub-blacks prior to clipping. Optional Plug-In Digital to Analog converter with RGB/YUV outputs available.

CP-1000 Digital Video RGB legalizer Card (Req's UB-1000) \$3,695.00

CG-1000SDI Safe Area Generator/Cage Card (Serial Digital Cage) provides in-vision cursors in the SDI signal, blanking for different aspect ratios, 16:9, 14:9 and 4:3 compatible.

CG-1000 Safe Area Generator Card (Req's UB-1000) \$2,495.00

Wohler SDI & AES/EBU Audio Shufflers



The Wohler B-2110 AES/EBU Audio Shuffler offers a cost effective solution to modifying AES/EBU audio signals. Useful in transmission, racks and VT areas, the Shuffler allows four AES/EBU audio input signals to be selected, modified and then routed to four digital outputs. Four analog and four digital outputs. Also includes headphone jack.

B-2110 Digital audio signal modifier/break-out box; 2xAES/EBU I/O's, re-routing, level adjust & phase/reversal \$4,025.00
B-2110opt1 Plug in AES/EBU bus insert PCB \$525.00
B-2110opt2 Plug in video synch/word clock PCB \$395.00
B-2120 SDI Digital Audio Signal Shuffler. SDI I/O. Re-routing, mixing, level adjust & phase reversal. 8 user memories. RS422 port. Analog output, headphone & insert port \$4,600.00
B-2120opt1 Plug in for analog & AES I/O for muxing and demuxing ... \$1,025.00

Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com

Video • DTV

Wohler 7120/7210/7310/8110/8210

Audio Delay/Synchronizers



**Wohler PANORAMA dtv
Audio Delay / Synchronizers Comparison Chart**

Product Number	7120	7220	7310	8110	8210
Analog I/O's	✓	✓	✓		
AES/EBU I/O's		✓	✓		✓
D/A and A/D Conversion		✓	✓		
Number of Audio Channels	2	2	2	8	4
Separate SMPTE Timecode Delay		✓	✓		✓
Independent Channel Settings	✓	✓	✓	pairs	✓
Maximum Delay per Channel	660mS	1.3S	1.3S	7.5 frames	1.3S
Silent Manual Delay Adjustment on line		✓	✓		✓
Auto-tracking, Audio Follow Video			✓		
NTSC or PAL Operation	✓	✓	✓	✓	✓
Increment in Samples, Fields, Frames or mSecs	✓	✓	✓	fields	✓
External AES/EBU, Video & Word Reference		✓	✓		✓
LCD Display	✓	✓	✓		✓
8 User Memories	✓	✓	✓		✓
Front-end Sample Rate Converter		✓	✓		✓
Balanced I/O's	✓	✓	✓	✓	✓
Data I/O Port					✓
Fail-Safe Bypass	✓	✓	✓	✓	✓
RS232 Remote Control Port		✓	✓		✓
Windows 95 Remote Software Option		✓	✓		✓
Price	\$1,485	\$2,350	\$4,685	\$3,185	\$4,400

Wohler Broadcast Quality Signal Conversion

Wohler offers a 3U housing that holds up to 12 cards (mix & match) for you to build your own broadcast quality video and audio conversion rack. EMC compliant, with a wide range of cards and configurations available to handle any application:



Distribution (SDI Video, AES, Analog Video & Audio) • Monitoring (SDI Video, AES) • Encoding (SDI Video to NTSC/PAL/YUV/RGB) • Decoding (NTSC/PAL/YUV/RGB to SDI Video) • Embedding (AES, Analog audio to SDI stream) • De-Embedding (AES, Analog audio from SDI stream) • Utility switchers (Digital and Analog) • Routing switchers (Digital and Analog) • Proven high reliability!

Wohler B-6110 Audio Lay-Off Recorder



The Wohler B-6110 lay-off recorder operates in the timecode "follow" mode or via an RS-422 serial interface, in NTSC or PAL formats. In the "follow" mode it records and replays audio in mono or stereo, in synchronization with other equipment when fed with external SMPTE timecode. Effectively, it provides two additional tracks of audio in order to simplify editing when audio needs to be cross faded and not edited with the video. When used under serial control the B-6110 provides VTR emulation and supports Sony protocol. Standard stereo memory is 42 secs (1 min 24 secs mono) with 1 min 24 secs and 2 mins 48 secs options available. SMPTE timecode tracking, AES and analog I/O.

B-6110 Audio Lay-Off Recorder, 42 second memory \$5,250.00
 B-6110 Audio Lay-Off Recorder, 1 min. 42 second memory \$6,350.00
 B-6110 Audio Lay-Off Recorder, 2 min. 42 second memory \$8,500.00

Wire • Accessories

Audio Single Pair Cable

Part Number	Nominal O.D.	Nominal Capacitance	Description	Price/ 1000 ft.
Belden 8451	.138"	34 pf/ft	22AWG	\$150.00
Belden 9451	.135"	34 pf/ft	22AWG	\$150.00
Belden 8761	.175"	24 pf/ft	22AWG	\$150.00
Canare L-2B2AT	.126"	23 pf/ft.	25AWG	\$160.00
Clark SPA22GS	.135"	30 pf/ft.	22AWG	\$99.00
Gepco 61801	.140"	25 pf/ft.	22AWG	\$130.00
Gepco 61801EZ	.138"	29 pf/ft.	22AWG	\$130.00
West Penn 291	.141"	55 pf/ft.	Single Pair	\$80.00

1-352-622-7700

Audio Dual Pair Cable

Part Number	Nominal O.D.	Nominal Capacitance	Description	Price/ 1000 ft.
Belden 8723	.150"	35 pf/ft.	22AWG	\$170.00
Belden 1504A	.143"x.300"	57 pf/ft.	22AWG	\$370.00
Clark Zip RS22G2	.135x.280"	30 pf/ft.	22AWG	\$235.00
Clark Zip RS22G2-Plen	.135x.280"	30 pf/ft.	22AWG	\$450.00
Gepco D61801EZGF	.140"x.290"	29 pf/ft.	22AWG	\$300.00
West Penn 2452	N/A	pf/ft.	24AWG	\$202.00

Hotlinks to Vendors @

www.bgsfl.com
www.broadcastdealer.com

Digital/LAN Cable

Part Number	Description	Price/ 1000 ft.
Belden 1583A	4-Pair, Category 5	\$70.00
Belden 1700A	4-Pair, Enhanced Category 5	\$130.00
Belden 1752A	4-Pair, Enhanced Category 5 Stranded	\$240.00
Belden 1872A	4-Pair, Media Twist Data/Audio/Video/etc.	\$190.00
Clark CAT5PVC4PR	4-Pair, 24AWG solid B.C., unshielded, Category 5	\$118.00
Clark CAT5PVC4PRSTR	4-Pair, 24AWG solid B.C., shielded, Category 5	\$230.00
West Penn 5456B	4-Pair, Category 5, Solid	\$75.00
West Penn 5499B	4-Pair, Category 5, Plenum, Solid	\$195.00
West Penn 55082	4-Pair, Category 5 Shielded, Plenum, Solid	\$542.00
West Penn 54783	4-Pair, Category 5, Shielded, Solid	\$208.00

AES/EBU Single & Dual Pair Cable

Part Number	Nominal O.D.	Nominal Capacitance	Description	Price/ 1000ft.
Belden 1800B	.180"	13 pf/ft.	24AWG, 1-Pair	\$330.00
Belden 1800F	.221"	13 pf/ft.	24AWG, 1-Pair	\$660.00
Belden 1801B	.165"	13 pf/ft.	24AWG, 1-Pair	\$620.00
Clark 801	.180"	13 pf/ft.	24AWG, 1-Pair	\$205.00
Clark 802	.180"x.374"	13 pf/ft.	24AWG, 2-Pair	\$403.00
Gepco 5524EZ	.183"	25 pf/ft.	24AWG, 1-Pair	\$320.00
Gepco 5526	.204"	23 pf/ft.	26AWG, 1-Pair	\$360.00
Gepco D5524EZ	.180"x.370"	13 pf/ft.	24AWG, 2-Pair	\$420.00

Digital Multipair Audio Cable

Part Number	Nominal O.D.	Nominal Capacitance	Description	Price/ 1000 ft.
Belden 1805A	.621"	13 pf/ft.	24AWG, 8-Pair Superflex	\$2,540.00
Clark DA2404	.430"	12.5 pf/ft.	24AWG, 4-Pair, 100 Ohm	\$590.00
Gepco 552604GFC	.435"	13.5 pf/ft.	26AWG, 4-Pair, 110 Ohm	\$1,410.00
Gepco 552608GFC	.580"	13.5 pf/ft.	26AWG, 8-Pair, 110 Ohm	\$1,850.00

Microphone Cable

Part Number	Nominal O.D.	Nominal Capacitance	Description	Price/ 1000 ft.
Belden 8412	.262"	30 pf/ft.	20AWG, 2-Conductor, Stranded	\$790.00
Belden 1192A	.245"	40 pf/ft.	24AWG, 4-Conductor, Stranded	\$610.00
Belden 1172A	.189"	50 pf/ft.	26AWG, 4-Conductor, Stranded	\$480.00
Belden 1804A	.115"	40 pf/ft.	28AWG, 4-Conductor, Stranded	\$880.00
Canare L-4E6S	.236"	46 pf/ft.	21AWG, 4-Conductor, Stranded	\$510.00
Canare L-4E5C	.189"	50 pf/ft.	23AWG, 4-Conductor, Stranded	\$420.00
Clark Mink4	.240"	46 pf/ft.	24AWG, 4-Conductor, Braided	\$395.00
Clark Fieldflex	.263"	21 pf/ft.	20AWG, 2-Conductor, Braided	\$450.00
Clark Studflex	.173"	25 pf/ft.	24AWG, 2-Conductor, Braided	\$272.00
Gepco MP-1022	.194"	26 pf/ft.	24AWG, 2-Conductor, Stranded	\$410.00
Gepco MP-1201	.240"	39 pf/ft.	24AWG, 4-Conductor, Stranded	\$530.00
Gepco 5522M	.272"	16 pf/ft.	22AWG, 2-Conductor, Stranded	\$690.00
West Penn 533	N/A	25 pf/ft.	22AWG, 2-Conductor, Stranded	\$276.00
West Penn 534	N/A	42 pf/ft.	22AWG, 4-Conductor, Stranded	\$298.00

Analog Multipair Audio Cable

Part Number	Nominal O.D.	Nominal Capacitance	Description	Price/ 1000ft.
Belden 1908A	.482"	26 pf/ft.	24AWG, 8-Pair Superflex	\$3,314.70
Belden 1916A	.681"	26 pf/ft.	24AWG, 16-Pair Superflex	\$5,890.00
Belden 1924A	.868"	26 pf/ft.	24AWG, 24-Pair Superflex	\$8,780.00
Gepco GA61808	.570"	26 pf/ft.	22AWG, 8-Pair, Numbered	\$1,540.00
Gepco GA61812	.635"	26 pf/ft.	22AWG, 12-Pair, Numbered	\$2,080.00
Gepco GA61816	.710"	26 pf/ft.	22AWG, 16-Pair, Numbered	\$2,820.00
Gepco GA61826	.840"	26 pf/ft.	22AWG, 26-Pair, Numbered	\$4,500.00
West Penn 45412	.675"	34 pf/ft.	22AWG, 12-Pair, Ind. Jacketed	\$1,048.00
West Penn 45416	.745"	34 pf/ft.	22AWG, 16-Pair, Ind. Jacketed	\$1,365.00

Wire • Accessories

Speaker Cable

Part Number	Description	Price/ 1000 ft.
Belden 9716	16AWG, Zip Style	\$270.00
Belden 9717	14AWG, Zip Style	\$400.00
Belden 9718	12AWG, Zip Style	\$690.00
Clark Z160FC	16AWG, Zip Style	\$150.00
Clark Z140FC	14AWG, Zip Style	\$320.00
Clark Z120FC	12AWG, Zip Style	\$409.00
Clark Z100FC	10AWG, Zip Style	\$510.00
Gepco GSC1020FC	10AWG, Stranded (413x36)	\$960.00
Gepco GSC1220FC	12AWG, Stranded (259x36)	\$680.00

RF 50 ohm Transmission Cables

Part Number	Description	Price/ 1000 ft.
Belden 8240	RG-58/U Type	\$230.00
Belden 8259	RG-58A/U Type	\$230.00
Belden 8237	RG-8/U Type	\$680.00
Belden 9913	Low Loss RG-8/U Type	\$810.00
Belden 9913F	Low Loss RG-8/U Type, High Flex	\$910.00
Clark RG58A/U	RG-58A/U Type, 20 Gage, Stranded	\$195.00
Gepco 3111	RG-58 Type, 20 Gage, Solid	\$260.00
Gepco 3135	RG-58 Type, 20 Gage, Stranded	\$300.00
Gepco 3240	RG-8 Type, 11 Gage, Stranded	\$780.00
West Penn 810	RG-8 Type	\$432.00
West Penn 812	RG-58A/U Type	\$144.00

RF 75 ohm Transmission Cables

Part Number	Description	Price/ 1000 ft.
Belden 8241	RG-59/U Type	\$210.00
Belden 8241B	RG-59/U Type	\$210.00
Belden 88241	RG-59/U Type, Non-conduit Plenum	\$1,090.00
Belden 9259	RG-59/U Type	\$260.00
Belden 89259	RG-59/U Type, Non-conduit Plenum	\$1,440.00
Belden 1426A	RG-59/U Type	\$190.00
Belden 9248	RG-6/U Type	\$270.00
Belden 89248	RG-6/U Type, Non-conduit Plenum	\$1,520.00
Clark RG59/U-PLEN	RG59/U Plenum	\$590.00
Clark RG6SD	Serial Digital Cable, Thin Profile	\$299.00
Clark RG11/U	Complex2 RG11, stranded	\$462.00
Gepco 5726	RG-6 Type, 18 Gage, Solid	\$180.00
Gepco VE61859M	RG-59 Type, 22 Gage, Stranded	\$320.00
Gepco 5573	RG-58 Type, 20 Gage, Solid	\$200.00
Gepco 5913	RG-11 Type, 14 Gage, Solid	\$330.00
West Penn 801	RG-11/U Type	\$402.00
West Penn 804	RG-59/U Type	\$156.00
West Penn 841	RG-6/U Type	\$108.00

www.bgsfl.com



Canare Cable Reel Stand



Canare CRS-02 cable storage rack accommodates 10 full-size Canare spools. Extra heavy duty gauge steel frame with solid reinforced welded joints. Rugged crinkled powder coat blue finish. Includes 4 industrial strength roll-around locking casters.

CRS-2 Cable Storage Rack \$584.90

The Canare BET-12 connector removal tool perfectly fits not only Canare 75Ω BCP-CBNC series, but all other standard MIL-SPEC BNC line plugs. The BET-12 allows easy access to those hard-to-reach BNC jacks located deep inside rear rack enclosures.

BET-12 Connector Removal Tool .. \$42.25

Quik Lok Bulk Cable Stand



The Quik Lok ESP-6 bulk cable stand has computer-welded joints and 1-1/2" diameter steel tubing. It is capable of holding up to 15 110-yard reels of cable. Easy to load and remove cable reels and supplied with casters for easy mobility.

ESP-6 \$239.95





Canare Cable Reels

Model	Size	Wt. (lbs.)	Stackable	Casters	Cable Cut-Out	Hanger	Price
R460S	L	22.0	NO	YES	YES	YES	\$436.00
R380S	M	17.5	NO	YES	YES	YES	\$414.95

Whirlwind Cable Reels

Whirlwind cable reels are constructed of heavy gauge steel with welded frames for rugged durability. The premium WD Series reels feature a unique adjustable braking system that controls the speed of the spool during payout and eases turning during rewind. The economical MR Series reels offer heavy-duty cable storage in a compact design.

The WD-1 and WD-2 are ideal for storage of microphone and small diameter multipair cable. Integral handles make them easy to carry and store.

WD-1	\$169.00
WD-2	\$227.80

The WD-3 and WD-3S are large capacity reels that feature removable crank handles and pillow-block bearings for smooth cranking under heavy loads. The unique split reel design offers easy access to both ends of the cable without having to unspool the entire length.

WD-3	\$403.00
WD-3S	\$403.00

The WD-4 and WD-4D super-large capacity reels have removable crank handles. Both feature pillow-block bearings and the WD-4D offers split reel design. Please Call for Pricing.

The MR reels are lightweight and economical. The sturdy welded frame and integral fan out storage make them ideal for storing Medusa® Series snakes or microphone cables.

MRLG	\$155.95
MRSM	\$124.65



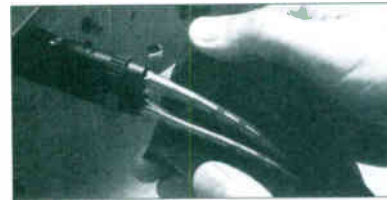
American Recorder Technologies Cable Straps



Regrip Cable Straps	8"	12"
6-Pack	\$8.00	\$10.00
20-Pack	\$20.00	\$24.00
50-Pack	\$40.00	\$50.00

Choice of colors include: Black • White • Gray • Orange • Purple • Blue • Red • Neon Green • Neon Red • and Assorted Pack

American Recorder Technologies Cable Cover



American Recorder Technologies SnakeSkin is the state of the art wire bundling and protection system. The wrap around design provides 100% coverage that holds wire snugly in place. Open weave construction will not retain moisture and protects wires

and cable from abrasion. SnakeSkin can easily be cut with scissors, or a hot knife for a neat, melted edge.

SKI-0.5/1000B	1/2" SnakeSkin, 1000' Black	\$200.00
SKI-1.0/100B	1" SnakeSkin, 100' Black	\$250.00

Bodge Plugs



With a set of Bodge Plugs and a length of balanced cable, a range of 45 different adapter cables can be made quickly, saving you time and aggravation.

BOD-XLRP	XLR 3-pin Plug	\$35.00
BOD-XLRJ	XLR 3-pin Jack	\$35.00
BOD-SPPS	1/4" Standard Stereo Phone Plug	\$35.00
BOD-SPJS	1/4" Standard Stereo Phone Jack	\$35.00
BOD-SPP	1/4" Standard Mono Phono Plug	\$35.00
BOD-PP	RCA Phono Plug	\$35.00
BOD-P	RCA Phono Jack	\$35.00
BOD-BJ	BNC Jack	\$35.00
BOD-TRS	1/4" Tip Ring Sleeve Plug	\$35.00

Audio Adapters

SPP-XLRJ	1/4" Standard Phone Plug to 3-pin XLR jack	\$9.99
SPP-XLRP	1/4" Standard Phone Plug to 3-pin XLR Plug	\$9.99
XLRJ-BL	3-pin XLR Jack to Jack Barrel	\$10.99
XLR-FM	3-pin Plug to Jack	\$9.99
XLRJ-PJ	3-pin XLR Jack to Phono (RCA) Jack	\$9.99
XLRP-BL	3-pin XLR Plug to Plug Barrel	\$9.99

Energy Transformation Systems, Inc. (ETS)



ETS is a manufacturer and supplier of high-performance data communications and multimedia wiring products, physical layer LAN products, custom magnetic and power electronics. ETS is one of the pioneers in physical layer components for network systems that enable Ethernet, Token ring, Apple Talk/Local Talk, IBM and Wang devices to operate over media not anticipated during system design, especially unshielded twisted-pair data communications components.

ProCision WaveAudio - Digital

PA810	XLR to BNC Digital Audio Balun, AES/EBU	\$58.60
PA820	RG59 Splitter, AES/EBU	\$66.60
PA830	Digital Audio Hybrid/Splitter	\$84.60

ProCision WaveVideo - Digital

PV850	Serial Digital Video Media Converter	\$93.60
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ProCision WaveVideo - Analog

PV880 Series	Broadband Video Balun	\$75.60
PV884	Ultra Broadband Video Balun	\$93.60
PV840 Series	Extended Baseband Video Balun	\$42.10
PV860	NTSC Baseband Video Balun	\$45.00
PV920	Component Video Balun	\$111.60
PV870 Series	Video Text Display Balun	\$26.10
PV930	VGA Video Balun	\$225.00
PV890 Series	RGB Video Balun	\$111.60

ProCision WaveVideo + Audio

PV900 Series	Baseband Video/Audio Balun	\$105.30
PV902	S-Video + Audio Balun	\$129.60

HOSA

All Hosa cables and adaptors come with a lifetime warranty to be free of defects in material and workmanship. Below is just a sampling of what Hosa offers, please call for further information and pricing.

Single Audio Cables



CRA-105	RCA-RCA, 5 ft.	\$8.00
CRA-110	RCA-RCA, 10 ft.	\$9.00
CPR-105	RCA-1/4" Phone, 5 ft.	\$8.50
CPR-110	RCA-1/4" Phone, 10 ft.	\$9.50
CPP-105	1/4" Phone - 1/4" Phone, 5 ft.	\$9.00
CPP-110	1/4" Phone - 1/4" Phone, 10 ft.	\$10.00
CSS-105	Stereo 1/4" Phone - Stereo 1/4" Phone, 5 ft.	\$13.95
CSS-110	Stereo 1/4" Phone - Stereo 1/4" Phone, 10 ft.	\$14.95
XRM-105	XLR (M) - RCA, 5 ft.	\$10.50
XRM-110	XLR (M) - RCA, 10 ft.	\$11.50
XRF-105	XLR (F) - RCA, 5 ft.	\$11.00
XRF-110	XLR (F) - RCA, 10 ft.	\$12.00

Fiber-Optic Cable



OPT-102	Fiber-Optic Cable, 0.6m , 2 ft.	\$11.00
OPT-103	Fiber-Optic Cable, 0.9m , 3 ft.	\$12.50
OPT-106	Fiber-Optic Cable, 2m , 6.6 ft.	\$16.00

Intelix Baluns

The Intelix A/V baluns (used in pairs) allows audio and video equipment to route through a building's existing structured cabling system based on Cat 3 or 5 Unshielded Twisted Pair (UTP) cable offering greater control and efficiency at a fraction of the cost. Specify in pairs (2). Priced per unit.

V1	Composite video (BNC connector to RJ45)	\$35.00
V1A2	Composite video and stereo audio (1 BNC & 2 RCA to RJ45)	\$83.00
V2A2	2-way video and audio (4 RCA connectors to RJ45)	\$83.00
V3	RGB video (3 BNC to RJ45)	\$110.00

Neutrik Connectors



Below is a sampling of the connectors available from Neutrik. The XLR connectors are available in 3 through 7 pins, straight, right angle, and panel configuration.

Please call for complete Neutrik information.

Pt. No.	Description	Contact	Shell	Price
NC3MX	3-Pin Male XLR	Silver	Nickel	\$2.46
NC3MX-BAG	3-Pin Male XLR	Silver	Blk. Chrome	\$2.63
NC3MX-B	3-Pin Male XLR	Gold	Blk. Chrome	\$3.03
NC3FX	3-Pin Female XLR	Silver	Nickel	\$2.76
NC3FX-BAG	3-Pin Female XLR	Silver	Blk. Chrome	\$3.67
NC3FX-B	3-Pin Female XLR	Gold	Blk. Chrome	\$4.25
NC3MP	3-Pin Male Panel XLR	Silver	Nickel	\$2.65
NC3MP-BAG	3-Pin Male Panel XLR	Silver	Blk. Chrome	\$3.62
NC3MP-B	3-Pin Male Panel XLR	Gold	Blk. Chrome	\$4.10
NC3FP-1	3-Pin Female Panel XLR	Silver	Nickel	\$2.88
NC3FP-1-BAG	3-Pin Female Panel XLR	Silver	Blk. Chrome	\$3.42
NC3FP-1-B	3-Pin Female Panel XLR	Gold	Blk. Chrome	\$4.08
NP2C	2-Pin 1/4" Phone Plug	Nickel	Nickel	\$2.90
NP2C-BAG	2-Pin 1/4" Phone Plug	Nickel	Black	\$4.20
NP3C	3-Pin 1/4" Phone Plug	Nickel	Nickel	\$3.57
NP3C-BAG	3-Pin 1/4" Phone Plug	Nickel	Black	\$3.66

Switchcraft Connectors & Adapters

A3M	321	Phono plug to 3-pin XLR female audio-connector	\$17.10
	322	Phono jack to 3-pin XLR female audio-connector	\$17.10
	323	Phono plug to 3-pin XLR male audio-connector	\$15.20
	324	Phono jack to 3-pin XLR male audio-connector	\$15.20
	389	Adapter- XLRF to XLRF	\$18.75
	390	Adapter- XLRM to XLRM	\$15.55
A3F		Satin Nickel Finish, female 3-pin XLR	\$6.70
A3M		Satin Nickel Finish, male 3-pin XLR	\$5.95

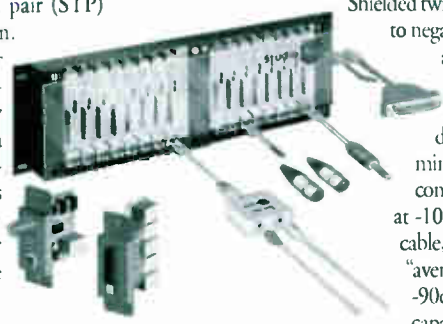


Wire • Accessories

Radio Systems StudioHub

CAT-5 Wiring for Analog and Digital Signals in Broadcast Applications

The StudioHub product makes extensive use of shielded twisted pair (STP) CAT-5 compliant cable throughout its design and implementation. In conjunction with companion termination and active amplifier components (used where needed to condition the audio), these integrated StudioHub products provide a convenient and technically sound method to wire and intermix analog and digital signals in a broadcast facility. STP cable, widely used in the computer industry, was selected for this new cross-platform application due to its characteristic: 100-ohm impedance and low capacitance range • excellent performance at audio frequencies • wide bandwidth for data transmission • low cost and wide availability • and wide range of connector and cable management systems.



Shielded twisted pair cable is specified for use in the StudioHub product to negate the effects of RFI in high RF environments and to avoid any possible crosstalk between cables in multi-cable bundles.

While there is a potential for signal cross coupling between pairs in the same cable, the use of good modern design electronically balanced circuits (especially at the terminating end) reduces this interference to negligible levels. Tests conducted by Radio Systems have measured maximum crosstalk at -102dB, 20-20 kHz, measured along a 200' length of CAT-5 cable, into a balanced termination with a CMRR of 85 dB. An "average" quality balanced circuit with 50 dB of CMRR yielded -90dB with the same test parameters. Finally, the use of a digital capable cable is recommended for facilities even where no digital audio circuits are currently contemplated due to the low cost and ease of future digital conversion.

In addition, by adopting the uniform use of a "multi-platform" cable, facility planning is simplified because any building cable may be readily employed at any time for analog, digital or data (LAN) applications.

CAT-5 for Digital Audio Data Transmission

Category 5 cables perform well for digital audio applications because they are engineered to have characteristic impedance of 100 ohms, and more importantly, extremely low capacitance (in the 12 pF/ft range). This yields the fastest transmission speeds and lowest signal reflection resulting in the best high frequency response and lowest error rates. CAT-5 cables are engineered for data rates up to 100 Mb/sec (100 baseT networks). Since AES/EBU signals have a bandwidth of about 3 Mb/sec (depending on sample rate), they operate well within the cables' guaranteed performance parameters, with dependable error-free transmission at lengths up to 920 meters (over 1/2 mile).

CAT-5 Cable for Analog Signal Transmission

In a recent article, Steve Lampen, a senior audio video specialist for Belden Wire & Cable writes, "Digital audio cables make the absolute best analog cables. You can go farther with flatter frequency response than with any cable designed for analog". This is due to its characteristic low capacitance, data cable is designed to transmit data at high velocity and wide bandwidths. At audio frequencies, these characteristics will yield exceptionally flat frequency response, even over very long cable lengths.

Other CAT-5 Cable features as utilized by the StudioHub System

Standard CAT-5 cable features four tightly twisted pairs (8 wires total); two of which are utilized for balanced left and right audio by the StudioHub wiring architecture. Two of the unused wires, plus a third ground wire are employed for the "DC power link system" which conducts ±15 volts through the cabling to remotely power various system auxiliary amplifiers and accessories. These "spoke" products include miniature matching and pre-amplifiers to conveniently convert source equipment with consumer style unbalanced and low-level audio inputs and outputs to the pro standards required for use with the StudioHub product. The "power link" approach provides phantom style powering of remote devices, eliminating the clutter and noise associated with multiple AC power supplies and "wall-wart" solutions. Future applications for the additional pairs made available via the use of CAT-5 cabling will include the introduction of RS-485 serial control signaling for "smart" spoke devices such as routing switchers and intercom signaling systems.

Tascam

Tascam has the following cables available:

- 8 Channel Snake Cables (Unbalanced)
- Insert (Send/Return) Snake Cables
- 8 Channel Snake Cables (Balanced)
- 8 Channel Snake Cables (D-Sub Balanced)
- Patch Bay Cable Sets
- Single Audio Cables (Unbalanced)
- Single Audio Cables (Balanced Microphone/Instrument)
- Dual Audio Cables
- Insert (Send/Return) Cables

- Headphone Extension Cables
- Instrument Cables
- Guitar Cables
- MIDI Cables (Molded End)
- MIDI Cables (Metal End)
- MIDI Cables (Right Angle Plug)
- MIDI Cables (Misc.)
- Audio Adaptors

- Audio Couplers
- "Y" Cables
- TDIF Cables
- DA38/DA98/DA88 Cables
- "TT" Tiny Telephone (Balanced)
- AES/EBU Cables
- ADAT Cables
- Connectors

- Speaker Cables
- SCSI Cables
- Sound Card Cables
- SPDIF Cables
- Video Cables
- USB/Firewire
- Power Extension
- Word Clock

We show a sampling of cables we stock, please call for further information and pricing.

Audio Couplers

- CU/AA203 XLR (M) - XLR (M) \$10.00
- CU/AA204 XLR (F) - XLR (F) \$12.00

Digital Audio Cables

- CU/AD102 RCA (M) - RCA (M), 6ft. \$4.75
- CU/AD302 1/4" Phone (M) - RCA (M), 6ft. \$5.75

Headphone Extension Cable

- CU/HE525 1/4" TRS - 1/4" TRS (F), 25ft. Coiled \$10.00

Single Audio Cables (Balanced Mic/Instrument)

- CU/AB202 1/4" TRS (M) - 1/4" TRS (M), 6ft. \$5.00
- CU/AB305 XLR (M) - 1/4" TRS (M), 16ft. \$14.00
- CU/AB405 XLR (F) - 1/4" TRS (M), 16ft. \$14.50

Single Audio Cables (Unbalanced)

- CU/AS202 1/4" Phone (M) - 1/4" Phone (M), 6ft. \$4.00
- CU/AS302 1/4" Phone (M) - RCA (M), 6ft. \$3.75
- CU/AS502 XLR (F) - RCA (M), 6ft. \$10.00
- CU/AS602 XLR (M) - 1/4" Phone (M), 6ft. \$9.25
- CU/AS702 XLR (F) - 1/4" Phone (M), 6ft. \$10.00

"Y" Cables

- CU/YC103 RCA (M) - RCA (Fx2), 6" \$3.00
- CU/YC501 1/4" TRS (M) - RCA (Fx2), 6" \$3.75
- CU/YC701 XLR (M) - XLR (Fx2), 6" \$17.50
- CU/YC702 XLR (F) - XLR (Mx2), 6" \$17.00



Terms & Conditions Stuff

Broadcasters General Store

2840 S. E. 52nd Street • Ocala, Florida 34480-7500



PAYMENT

We accept most major credit cards, as well as certified check, money order, COD, or 30 day open account for those approved accounts. Orders paid for by personal check may be accepted upon approval by TeleCheck. Orders outside the U.S. require payment by U.S. certified funds, credit card or via bank transfer. To obtain Customer Open Account Status: Please complete and

sign our credit application, we will ship on open account to qualified domestic businesses and educational agencies upon receipt of a written purchase order. Our credit application can be found on the back of the address page of this catalog, at our web site or we would be happy to fax one to you. All accounts over the agreed credit terms will relinquish their privilege of credit terms.

SHIPPING

Normally we ship via UPS. For those shipment that require faster service we will ship UPS or Federal Express (we will try to use other specified carriers upon request). Shipping charges are based on the weight or in the case of larger boxes the dimensional shipping weight of the item. Shipping charges are prepaid and added to the customer's chosen method of payment.

Upon receipt of the shipment please inspect all boxes immediately. If a package is damaged, make a note of the damage or any missing cartons on the receipt and

have the driver for the delivery company sign it and give you a copy. Please call BGS if any of these problems arise.

Claim: The copy of your shipping receipt should be faxed to us so that we can assist you in filing a claim. You must keep all cartons and equipment until the claim is investigated by the shipping company. Under present ICC rules and regulations, it is the responsibility of the consignee to inspect and report loss and damages promptly, within 5 working days, and in writing.

RETURNS

Please call BGS, before returning anything. We must issue you a Return Authorization, which allows us to credit you account quickly. We will credit your account for product value only. We do not include shipping costs, unless the error was ours or the manufacturers. The items must show no cosmetic damage or signs of wear and must be returned in the manufacturer's original packaging. Return authorizations expire 14 days from the date issued.

Restocking Charges: Special orders or non-inventory items may be subject to restrictions with possible manufacturer restocking fees! These fees can range from 15 to 50%, while some custom orders are not returnable. Computer software will only be accepted back if unopened and the factory seal is intact.

CONDITIONS OF SALE

Payment for the goods is as previously agreed at the time of sale and as stated on the invoice, including freight charges. In the event an invoice is not paid as agreed, the Buyer agrees that the Seller, Broadcasters General Store, Inc., retains title and right to

possession of the goods, that the Buyer agrees to pay all costs of collections, including attorney's fees and that interest shall accrue on the full balance at the rate of 18% per annum. Any litigations between the parties shall take place in Marion County, Florida.

WARRANTIES

The manufacturers' warranties apply and commence on the invoice date. In the event of equipment failure during the warranty period, contact Broadcasters General Store promptly so that we may assist in the replacement or repair of the defective item.

Specifications and prices are subject to change without notice.

1-352-622-7700

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