

MED⁹EL



INFORMATION FOR PROFESSIONALS

Stick. Click. Hear.

ADHEAR BONE CONDUCTION SYSTEM



ADHEAR

Stick. Click. Hear

ADHEAR is the world's first non-surgical bone conduction device that does not exert any pressure on skin or bone. It's efficient, convenient and suitable for all ages.



Comfortable

The breathable adhesive adapter does not apply pressure onto skin or bone, resulting in unparalleled wearing comfort and longer wearing time.



Discreet

Due to its cosmetically appealing design, compact housing and inconspicuous position behind the ear, ADHEAR can be worn discreetly.



Reliable

ADHEAR reliably stays in an ideal position behind the ear, offering consistent access to sound. The battery compartment can be safely locked.



Intelligent

With directional and omni-directional microphones, noise reduction and feedback cancellation, ADHEAR adapts to the recipient's environment for optimal hearing.



Effortless

ADHEAR is incredibly easy to handle. Recipients simply click the processor into place for immediate benefit to begin using it instantly. If needed, the recipient can also switch between programs at the push of a button.



Convenient

Recipients can enjoy up to two weeks of power with just one battery. And direct audio input makes connecting to smartphones and receivers simple.

ADHEAR Adhesive Adapter

Highly innovative technology
Optimized for sound transmission
without pressure onto the skin

Single-use adhesive
Can be worn up to 3-7 days

Water-resistant
Can be worn during bathing, showering
and other water-related activities

Choice of colors
Available in beige or brown



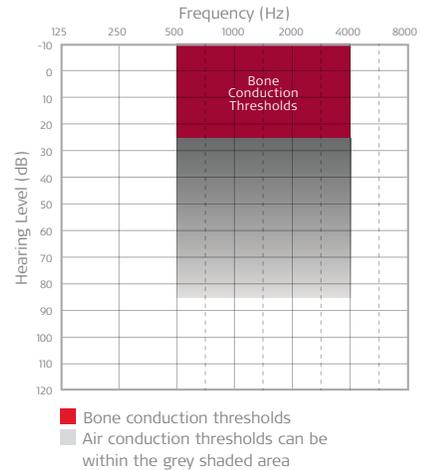
Placement of ADHEAR Adhesive Adapter

Placement of ADHEAR Audio Processor

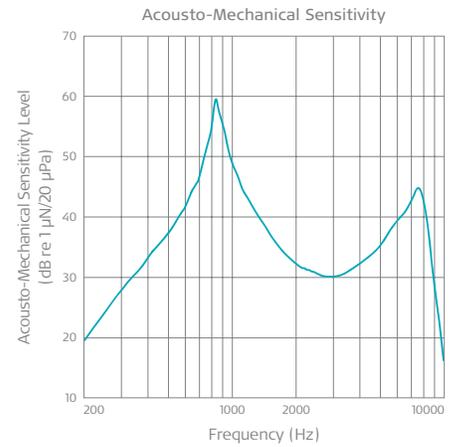
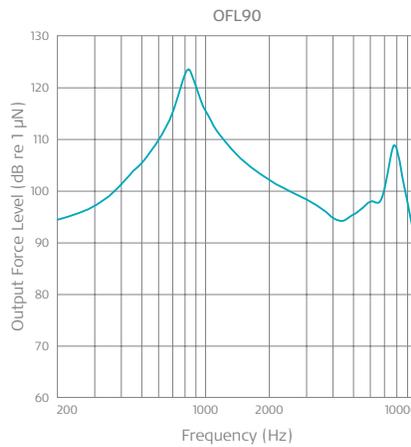
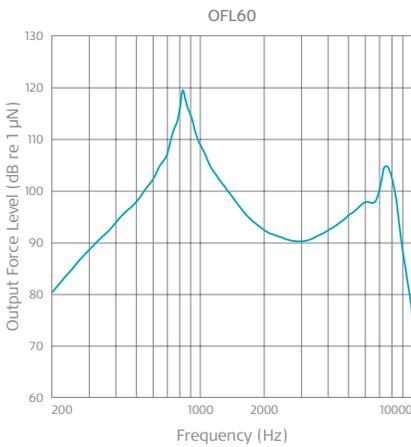
Selection Criteria for ADHEAR

- Unilateral or bilateral conductive hearing loss, either temporary or permanent, with bone conduction thresholds that fall within the red area marked in the chart
- Single-sided deafness (i.e. unilateral profound sensorineural deafness) with normal hearing on the contralateral side
- For all ages

Fitting Range: Conductive Hearing Loss



Frequency Response Curves



Audio frequency range	250 Hz – 8000 Hz
Peak OFL at 90 dB SPL	124 dB re 1 µN
Peak OFL at 60 dB SPL	120 dB re 1 µN
Acousto-mechanical sensitivity level (at 60 dB SPL input, 1600 Hz)	36 dB re 1 µN/20 µPa
Total harmonic distortion (at 60 dB SPL input)	< 5 % above 600 Hz
Equivalent input noise level	28 dB re 20 µPa

The acousto-mechanical sensitivity is the ratio between the vibratory force output and the sound pressure input.

Technical Data

ADHEAR Bone Conduction System



Dimensions Audio Processor

- Height: 14.6 mm
- Width: 34.9 mm
- Weight: 13.5 g (including battery)

Dimensions Adhesive Adapter

- Height: 4 mm
- Width: 29 mm
- Weight: 1 g

Product Features

- Volume control
- Program button
- Turn system off by opening the battery compartment
- Mute by switching to program 4
- Battery lock feature
- Direct audio input: Connect devices such as mobile phones, tablets, Bluetooth streamers, FM receivers or telecoil receivers
- Audio processor available in 3 colors
- Adhesive adapter available in 2 colors

Signal Processing

- Automatic adaptive directional microphone system
- 8-band digital equalizer
- 8 independent compression channels
- Noise reduction
- Feedback cancellation without reducing gain
- Microphone noise reduction adjustable via squelch ratio and threshold
- 4 pre-configured programs (up to 6 possible)

Materials in Skin Contact

- Adhesive adapter: medical adhesive, non-toxic and non-allergic
- Headband (optional): polycarbonate plastic, polyester and elastane
- Biocompatible according to ISO 10993-1
- Latex-free**

Power Supply

- One non-rechargeable size 13 zinc-air button cell with a nominal 1.4 V supply (IEC identifier: PR48)
- Up to 300 hours of battery life*
- Battery current: 0.87 mA (at 60 dB SPL input, 1600 Hz)

Accessories

- ADHEAR Adhesive Adapters
- ADHEAR Headband
- ADHEAR Positioning Tool
- ADHEAR Sleeves
- Cleaning brush
- Design stickers
- Retention clip
- Screwdriver

Cables

- Angled adapter cable
- FM adapter cable
- Long audio input cable, bilateral input (100 cm)
- Long audio input cable, unilateral input (100 cm)
- Short audio input cable, bilateral input (45 cm)
- Short audio input cable, unilateral input (45 cm)

* Battery life dependent on individual usage.

** Whereby "free" means "not made with latex" according to current FDA guidance: "Recommendations for Labeling Medical Products to Inform Users that the Product or Product Container is not Made with Natural Rubber Latex", 2014.

Detailed information and specific usage instructions for each product can be found in the respective user manual. Please contact your local MED-EL representative for more information.

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