outsight

LIDAR PROCESSING UNIT

for Intelligent Transportation Systems





LiDAR Processing Unit

for Intelligent Transportation Systems

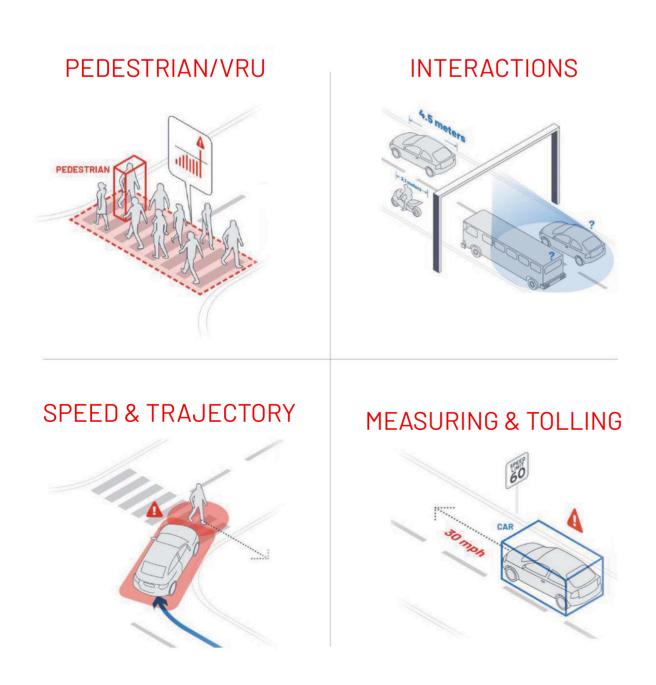


Augmented LiDAR Box®

Detect, classify and track Pedestrians and Vehicles, in Real-Time.

Develop your own ITS application

The Outsight Augmented LiDAR Box real-time output enables rapid development of solutions for multiple distinct use cases.



Stop Bar detection

Wrong way

Illegal right turn

Class-wise over-speed

Cross-walk safety

Reserved lane violation

Lane change detection

Vehicle trajectory monitoring

Yellow box junction

People flow monitoring

Pedestrian near-miss

Vehicle near-miss

Vehicle dimensions

Traffic jam starting/ending

Class-wise tolling



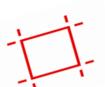
Built in features

You can develop practically any ITS use case in your host platform combining three built-in features



Tracking Vehicles & Pedestrians

- ► Persistent ID per object
- ► Classification
- Position, Orientation and Velocity
- ► 3D Bounding Box



Zones of Interest

- Easily define and modify your own zones with a graphical interface or using the API.
- Define custom Exclusion and Detection
 Zones to focus on what matters.



Real-time occupancy

 Detect events (e.g. an object entering or leaving a zone) in real-time and/or keep statistical records over time.



As a user, you can **establish 3D zones** to restrict processing to specified areas or to emphasize the presence of objects of interest in particular places.

This makes zone-based ITS scenarios easier to implement (e.g. reserved lane violation).

Other Key features

- IP65 and low power consumption.
- 24/7 any-lighting performance.
- No personal identifiable information collected.
- Same output format regardless of LiDAR model.
- HTTP REST API to control your device.

Settings

Fine tune based on your context and objective.

Maintenance

All configuration and maintenance operations are easily performed from a web-based configuration interface.

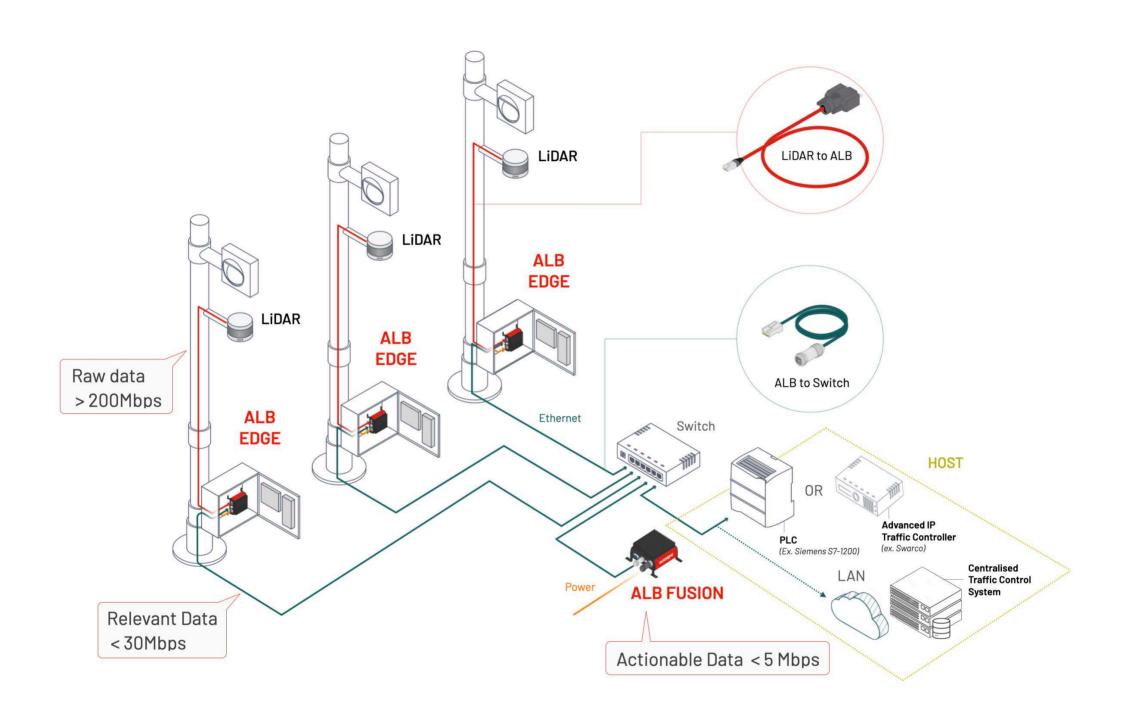
www.outsight.ai PRODUCT SHEET



Seamless multi-LiDAR Fusion & Integration

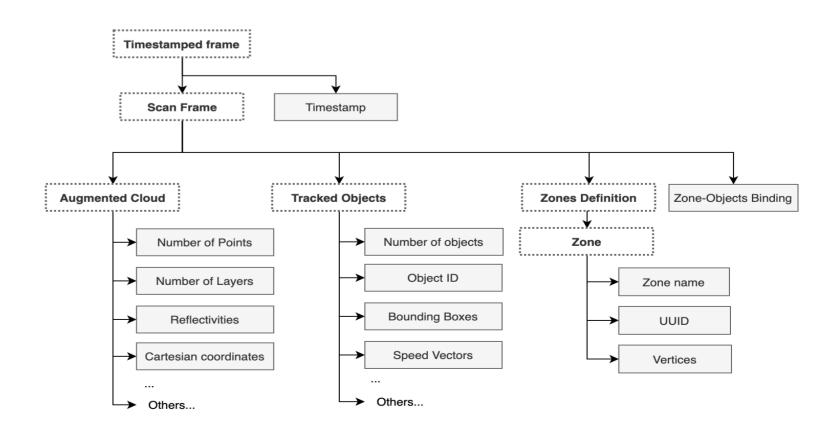
By combining 3D data from many LiDARs, the movement of vehicles and pedestrians can be **tracked continuously across a large observation area**, improving vehicle and vulnerable road user recognition and classification.

Multi-LiDAR Fusion reduces the impact of occlusions in dense areas.



The real-time output is encoded in **O**pen **SE**rialization **F**ormat

(OSEF: TLV-Based) and transmitted over TCP/IP.





Design & Deployment tools

- Online LiDAR coverage simulator
- Application software resources
- Complete ITS Dashboard application example for rapid prototyping



Outsight Cloud-Hosted 3D coverage simulator







Visit alb.outsight.ai for further details, including demo videos and a complete ITS applications Cookbook

Recommended compatible LiDARs

Velodyne: VLP-16, VLP-32C, VLS-128

Ouster: OSO, OS1 and OS2 (32/64/128)

Hesai: Pandar XT-32

Robosense: RS - 32, BPearl

Product code

ALB-ITS1	One single ALB
ALB-ITS2	Two ALB Edges and one ALB Fusion
ALB-ITS3	Three ALB Edges and one ALB Fusion
ALB-ITS4	Four ALB Edges and one ALB Fusion

www.outsight.ai PRODUCT SHEET

outsight

LiDAR Processing Unit for Intelligent Transportation Systems

PRODUCT SHEET

Outsight SA

2 rue de Bérite **75006 Paris, France** 535 Route des Lucioles06560 Sophia Antipolis, France

Outsight Inc.

77 Van Ness Ave, Suite 101 #1170 San Francisco, CA 94102, USA