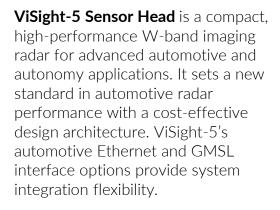




ViSight-5

AUTOMOTIVE RADAR SENSOR HEAD



Electronic Control Unit Processing

Raw radar data is sent via Ethernet or GMSL to the Electronic Control Unit (ECU) for processing. Centralized ECU processing reduces sensor cost and enables OTA updates to take advantage of the latest radar processing methods, providing feature upgrades over an extended lifetime.

Downstream Processing

ViSight-5 includes ECU software that generates radar images, radar point clouds, and target tracks on ECUs provided by Veldar or the end user. User applications can be added to the processing chain.



Two Interface Options



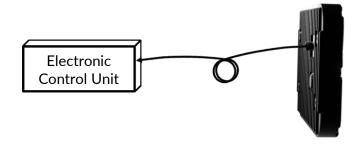
Auto Ethernet

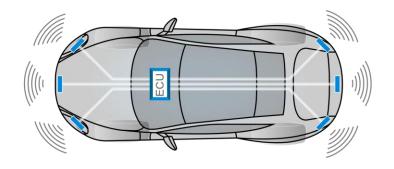
- 1000BASE-T1
- PoDL option
- M8 SPE connector
- PTP synchronization



GMSL2

- Coax cable
- PoC option
- FAKRA connector
- Precise time sync









PERFORMANCE

Range Resolution 0.1 - 2.5 m (selectable)

Azimuth Resolution 1.0 deg **Elevation Resolution** 3.0 deg

Velocity Resolution 0.5 - 2.5 m/s (selectable)

Azimuth FoV90 degElevation FoV15 degFrame Rate10 - 16 fps

PHYSICAL & ELECTRICAL

Dimensions 18 x 12 x 2.5 cm

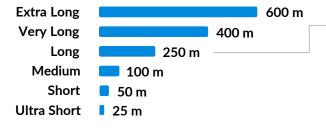
Weight < 650 g
Power Consumption < 16 W
Input Voltage 9 - 36 VDC

Data Interface ETHERNET or GMSL

FLEXIBLE CONFIGURATIONS

Users can select the range, resolution, and frame rate combination that best matches their application. Six range options are provided as default modes.

RADAR RANGE MODES



DETECTION PERFORMANCE

Traffic cones (-15 dBsm) 150 m Pedestrians (-5 dBsm) 300 m Small cars (10 dBsm) 600 m ←

4D IMAGING

ViSight-5 delivers range, azimuth, elevation, and velocity data for all points in the radar point cloud.

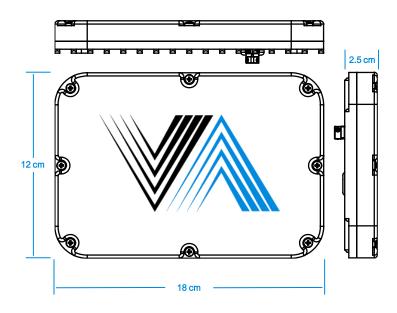
ALL-WEATHER OPERATION

Vehicle and pedestrian imaging and obstacle detection in degraded visual environments (DVE) including low light, fog, smoke, rain, and snow.









ENVIRONMENT

Dust and Water IP67

Operating Temperature -40 to +85 deg C

Vibration High vibration environments

VISIGHT-5 POINT CLOUD

