

ViSight-5

AUTOMOTIVE RADAR



ViSight-5 is a compact high-performance W-band imaging radar for advanced automotive and autonomy applications.

With improved detection performance in cluttered environments, onboard processing, and software-defined mode configurations, ViSight-5 sets the standard for safety and performance.

4D IMAGING

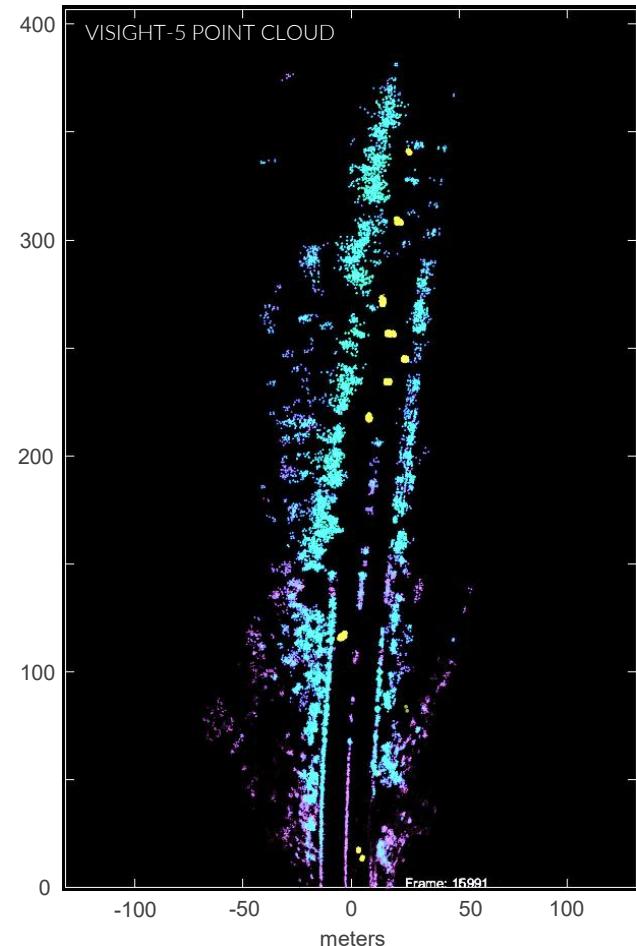
Delivers range, azimuth, elevation, and velocity data for all points in the radar point cloud.

FLEXIBLE CONFIGURATIONS

Provides multiple modes of operation, allowing the user to select the range, resolution, frame rate, and data rate combination.

MULTIPLE PROCESSING OPTIONS

Processes onboard or streams images and raw radar data to a host computer through the built-in 1 to 10 GbE interface.

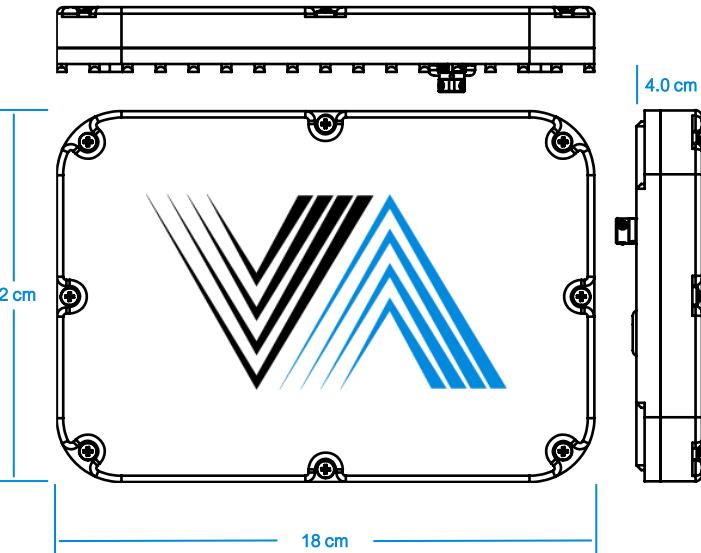


PERFORMANCE

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 FoV	90 deg
Elevation FoV	15 deg
Frame Rate	10 - 16 fps

PHYSICAL & ELECTRICAL

Dimensions	18 x 12 x 4.0 cm
Weight	< 900 g
Power Consumption	< 20 W
Input Voltage	12 - 48 VDC
Data Interface	ETHERNET



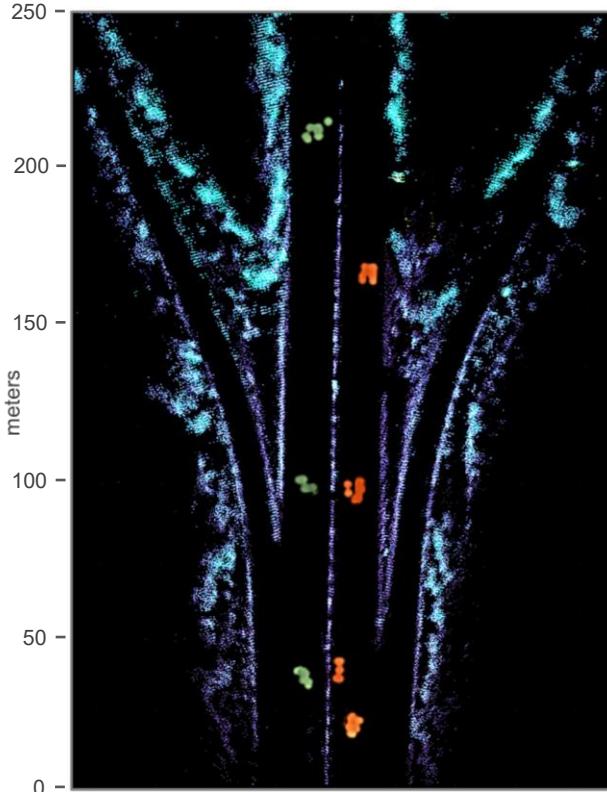
ENVIRONMENT

Dust and Water	IP67
Operating Temperature	-40 to +85 deg C
Vibration	High vibration environments

RADAR RANGE MODES

Extra Long	600 m
Very Long	400 m
Long	250 m
Medium	100 m
Short	50 m
Ultra Short	25 m

VISIGHT-5 POINT CLOUD



DETECTION PERFORMANCE

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

ALL-WEATHER OPERATION

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

