



SERIES PRODUCTION

INNOVIZONE Automotive-Grade Solid-State LiDAR

InnovizOne is a high-performance, automotive-grade, solid-state LiDAR sensor with unsurpassed 3D perception performance that is targeted at mass-production of Level 2.5 to Level 5 autonomous vehicles.

The rugged, reliable, functionally safe, and cost-effective LiDAR is lightweight, low-power, and is resilient to sunlight and weather conditions. The sensor delivers a dense, highly accurate, 3D point cloud with unrivaled angular resolution at a high frame rate for distances up to 250 meters.

InnovizOne's firmware is delivered with pre-configured functionality including: scanning configuration with Regions of Interest (ROI); vertical FOV; pixel summation structure; frame rate; and number of reflections. These and other functions can be modified by uploading a new firmware version provided by Innoviz.

Innoviz's complementary perception software converts the LiDAR's raw point cloud data into high quality perception outputs for outstanding object detection, classification, and tracking; LiDAR calibration; and pixel collision classification (frame-by-frame detection and classification of pixels as possible obstacles within the drivable and non-drivable area.)

KEY PERFORMANCE METRICS

0.1m-250m

Detection Range

0.1°x0.1°

Angular Resolution (HxV)

115°x25°

Maximum Field of View (HxV)

5, 10, 15, or 20 FPS

Pre-Configured Frame Rate

ASIL B(D)

ISO 26262-Compliant

IP6K9K

Ingress Protection

45x111.4x97.9mm

Dimensions (HxWxD)

KEY FEATURES



Regions of Interest or Uniform Field of View



Multiple Reflections



No Gaps Between Pixels



Equally Distributed VFOV



Resilient to Sunlight & Weather Conditions

MARKET APPLICATIONS



Consumer Vehicles



Robotaxis, Shuttles & Delivery Vehicles



Trucking



Heavy Machinery



Industrial Drones



Logistics



Sidewalk Delivery

KEY SPECIFICATIONS

LASER

Laser Product Class	Class 1, Eye-safe (IEC-60825-1)
Wavelength	905nm

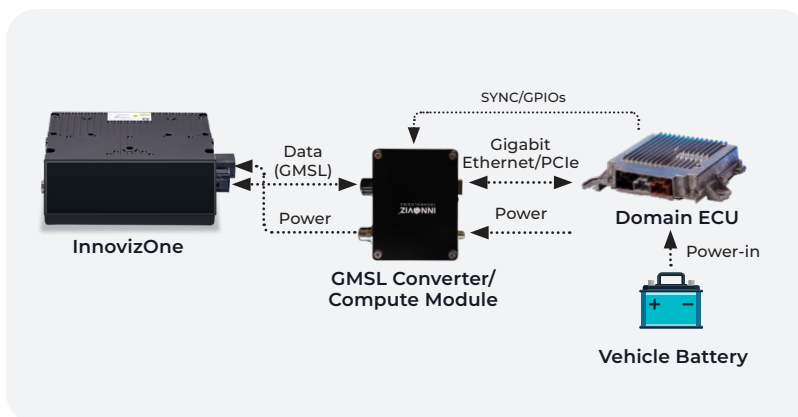
MECHANICAL/ELECTRICAL

	FOV with Regions of Interest @ 15FPS	Uniform FOV @ 10FPS
Power Consumption	12-25W	15-30W
Dimensions	45x111.4x97.9mm (HxWxD)	
Weight	515g	
Ingress Protection	IP6K9K (ISO 20653)	

REGULATORY COMPLIANCE

System-Level Safety and Reliability	IEC 60825-1
	ISO 26262 ASIL B(D)
	CSA/UL/IEC 62368-1
Electromagnetic Compliance Compatibility (EMC)	EN 55024; EN 55032; FCC 47 CFR Part 15, Subpart B; EU Directive 2004/104/EC
Environmental	IEC 60068-2; ISO 16750; IEC/EN 20567-1; ISO 20653 (IP6K9K); DIN 75220; RoHS; REACH

INNOVIZONE CONNECTED TO ECU VIA COMPUTE MODULE



INNOVIZONE DIRECTLY CONNECTED TO ECU

