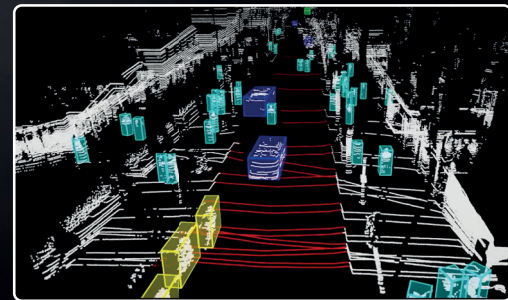




IRIS

Long-Range, High Resolution.



MicroVision®'s IRIS is a high performance, automotive grade long range lidar sensor engineered to enable advanced safety and highway speed autonomy. Built from the chip level up, IRIS combines a 1550 nm laser architecture and ultra sensitive receiver technology to deliver long distance, high confidence sensing in a compact form factor designed for series production and seamless vehicle integration.

Engineered for Long Range Performance.



Resolution at Range

Ultra Sensitive Receiver Technology to deliver Long Distance, High Confidence Sensing.



High Resolution

Ultra-Sensitive InGaAs Receiver & Custom ASIC for Reliable Detection of Small, Dark, and Low-Reflectance Objects.



Low latency

Enabling autonomous systems to make quicker decisions for safer outcomes.



Full Lidar Solution

Complements our short-range sensor to provide OEMs with a complete, integrated lidar coverage suite.

Product proof points

280 m

Long Range Detection

120°

Field of View

1550 nm

Laser Technology

~25 W

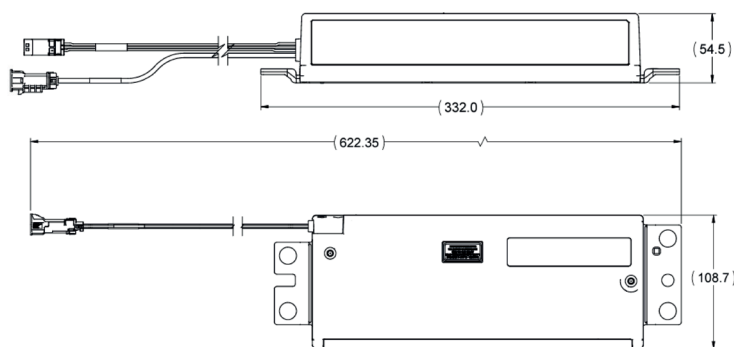
Low Power Consumption

Automotive-Grade

Durability and mission profile



Long-Range, High-Resolution Perception.



- ▶ High resolution at range: Detecting and identifying small objects at highway speeds.
- ▶ Compact housing: seamless integration into design-critical components.
- ▶ Low Power Consumption (~20 W)
- ▶ Engineered for automotive-grade durability and mission profile optimized reliability as well as high-volume manufacturability.
- ▶ Ultra-sensitive InGaAs receiver & custom ASIC for reliable detection of small, dark, and low-reflectance objects at long distances.
- ▶ Software-configurable field of view enables adapting to different vehicle platforms and use cases, from advanced driver assistance systems to Level 3 autonomy

Highway ADAS / L3 Autonomy

- ▶ Highway Pilot / Eyes-Off Driving
- ▶ Automatic Emergency Braking at Highway Speed
- ▶ Road Surface Detection

Autonomous Driving

- ▶ Environmental mapping
- ▶ Localization
- ▶ Obstacle detection & object classification
- ▶ Low-Speed Maneuvering

Commercial Applications

- ▶ Last-Mile Delivery
- ▶ Autonomous Yard Trucks & Logistic Hubs
- ▶ Depot Automation
- ▶ Bus and Shuttle Automation

Specifications & System Highlights

Technology / Laser / Optical	Specifications
Field of view (h x v)	120° x 26°
Maximum Instrumented Range	280 m
Minimum Instrumented Range	2 m
Range Precision (1 σ , 50 m, 10 %R)	4 cm
Frame Rate	1 Hz - 30 Hz, SW configurable
Laser Product Class	Class 1 per IEC / EN 60825-1: 2014
Dimensions (w, d, h) without mounting brackets	270 x 106 x 54 mm
Ingress Protection	IP67 listed

High-Resolution Sensing

for Highway ADAS and Autonomous Driving

Long-Range solution

as part of ADAS and autonomous driving solutions

120° Field of View

Precise perception across the entire width

Open Software Framework

for customer applications

Compact design

for seamless vehicle integration

Low Power Consumption

25 W