MAVIN™ with Perception
Dynamic range performance with object detection, classification, and tracking


Key Features

- ▶ Customizable, low-profile, one-box solution required by automotive OEMs
- ▶ Perception software enables object detection, classification, and tracking
- ▶ Small object detection – near and far, at highway speeds of 130 km/h (80 mph)
- ▶ Low latency data

- ▶ Laser Safety Class 1 with unique Pixel-by-Pixel Automatic Emission Control
- ▶ Low-profile and low power for smooth integration and deployment
- ▶ Custom ASIC* optimized for speed, cost, and seamless integration

*planned for series
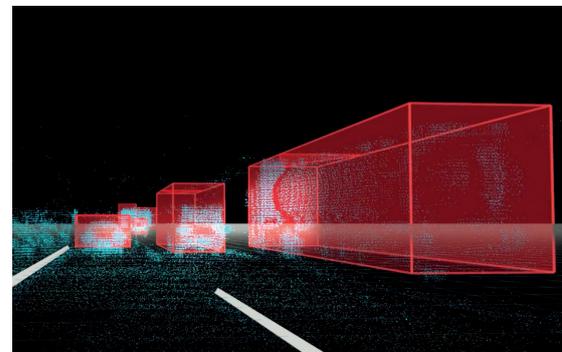

Integration Possibilities on OEM Architecture

Windshield

Roof

Hood

Grille

Headlamp

Bumper
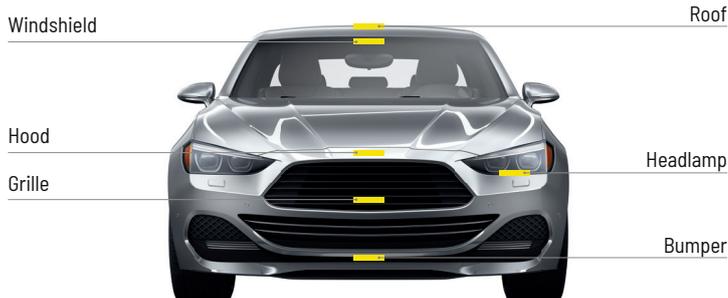
Safe mobility at the speed of life

DS0140020 Rev B
MAVIN™

Feature	Specification		
	FPGA		
Field of view	Near	Mid	Far
	100° H x 25° V	50° H x 20° V	20° H x 10° V
Typ. angular res. (H x V) *	0.086° x .040°		
Data output frame rate	30 Hz		
Point / s	> 14 M		
Laser safety compliance	Class 1		
Wavelength	905 nm		
IP rating	IP 69		
Aperture	96 mm wide, 14 mm tall		
Bounding box size	135 mm wide, 35 mm tall, 241 mm deep		

*Average resolution of the foveated area
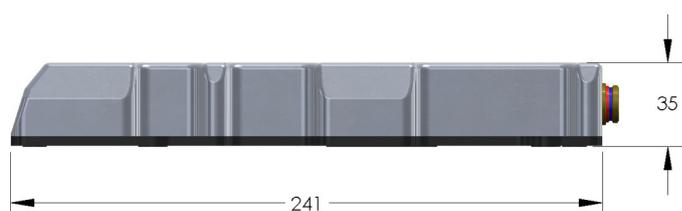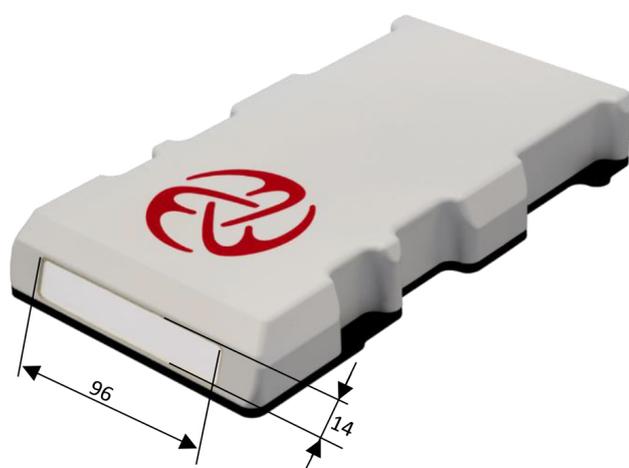
Dynamic Field of View
Seeing obstacles clearly at short- and long-range simultaneously

Resolution at Range
Detecting and identifying smaller objects from longer distances

Low Latency
Enabling drivers to make quicker decisions for safer outcomes

Compact Design
Integrating multiple solutions into one compact unit

Cost
Requires fewer and less expensive sensors