

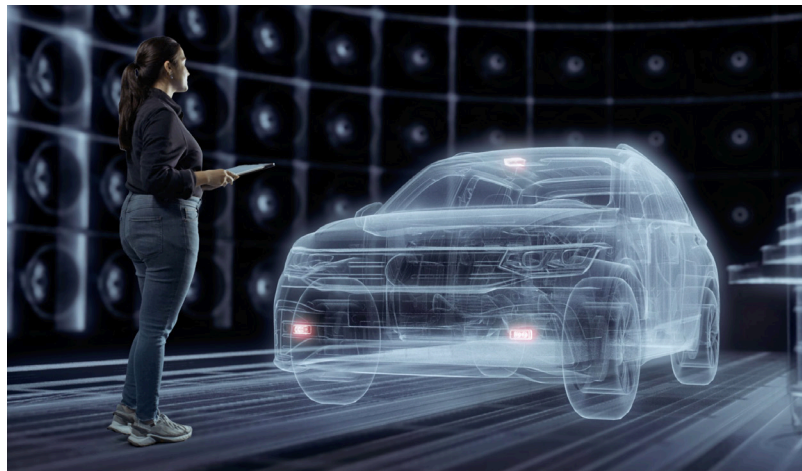
TRI-LIDAR ARCHITECTURE

Ultimate Cost-Effective OEM Solution



Concept

- ▶ Combining different lidar sensors to one system:
 - 2x short-range lidar (e.g. corners, below headlamps)
 - 1x long-range lidar (e.g. under hood, behind windshield)
- ▶ Cost effective and seamlessly integrated lidar solution
- ▶ System based on an unified open-platform design
- ▶ Enabling a wide range of features from ADAS up to fully autonomous driving (AD)



Advantages

- ▶ Highly cost effective
- ▶ Radically reduced complexity
- ▶ Significantly lower power consumption
- ▶ Dramatically enhanced near-field performance
- ▶ Open-platform design offers maximum flexibility - radar and camera sensors also possible
- ▶ Customizable hardware and software solution



Safe mobility at the speed of life®



Tri-Lidar Architecture with MOVIA™ S and MAVIN®

MicroVision provides the ultimate cost-effective and seamlessly integrated solution: Tri-Lidar Architecture. The concept integrates multiple lidars – for example two short-range (MOVIA™ S) and one long-range (MAVIN®) – into an unified, open-platform design.

MOVIA™ S

- ▶ Cost effective and ultra compact
- ▶ Well designed for seamless integration
- ▶ Low power consumption: < 7 W
- ▶ Configurable field of view: from 60° up to 180°
- ▶ Optional onboard perception



MAVIN®

- ▶ High resolution at range: detecting and identifying small objects at highway speeds
- ▶ Custom ASICs optimized for low power consumption and cost reduction
- ▶ Robust beam steering: MEMS mirrors, no rotating macro components
- ▶ Integration possibilities: under the hood/grille, windshield, roof, bumper



Technical Data*

Technology / Laser / Optical	MOVIA™ S	MAVIN®
Field of view (h x v)	90° x 67.5°	60° x 25°
Angular resolution (h x v)	0.35° x 0.35°	0.05° x 0.05°
Frame rate	15 Hz	10 Hz

*Sample configuration, selectable fields of view depending on OEM requirements.

Technology & Innovation



Combining near and long range sensors



Low power consumption



Highly cost effective



Seamless design integration