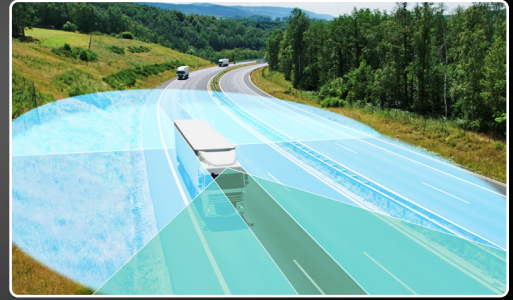


MOVIA™ S

180° lidar solution for the most demanding near-field applications.

MOVIA™ S – MicroVision's next-generation solid-state lidar. Smaller, more energy efficient, and significantly more cost effective than traditional solutions, MOVIA™ S delivers high-performance perception in an ultra-compact form. Designed for seamless integration into fenders, or low-profile body panels, MOVIA™ S minimizes visual impact while maximizing flexibility for automotive and commercial vehicles.

Ultra-compact. Highly Cost-effective. High Performance.



180° Field of View

Ultra-wide field of view for complete environmental awareness.



Highly cost-effective

Lower total system costs thanks to tailored application design and software-defined hardware.



Ultra-Compact housing

Minimized footprint that expands placement options and protects OEM design intent.



Full lidar solution

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

Product proof points

<400 g

Ultra-lightweight

<9 W

Low power consumption

180°

Field of View

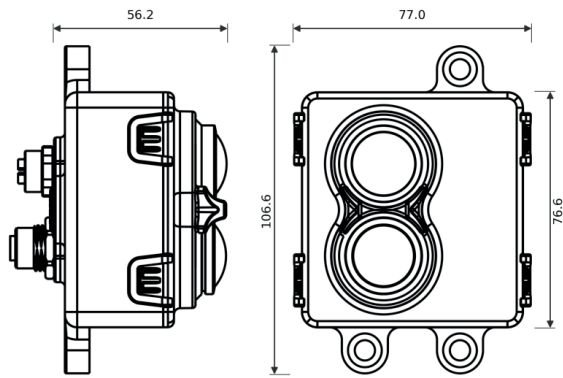
Onboard perception

Pure solid-state

No moving parts



180° performance. For all near-range applications.



- ▶ Highly cost-effective, scalable near-range solution
 - ▶ Ideal for near-field applications such as parking, blind spot detection, and low-speed autonomy
- ▶ Ultra-compact housing: seamless integration into design-critical components such as fenders
 - ▶ Pure solid-state: no moving parts
 - ▶ Low power consumption
- ▶ Onboard processing capability and optional perception software
 - ▶ Developed to automotive-grade standards

ADAS

- ▶ Blind Spot Detection
- ▶ Lane Assistance
- ▶ Cross-Traffic Alert
- ▶ AEV, FCW and ACC

Autonomous Driving

- ▶ Environmental mapping
- ▶ Localization
- ▶ Obstacle detection & object classification
- ▶ Highway pilot

Emerging Applications

- ▶ Road Surface
- ▶ Low-Speed Maneuvering
- ▶ Vehicle Recognition
- ▶ Work-Zone Detection

Specifications & System Highlights

Technology / Laser / Optical	MOVIA™ S
Field of view (h x v)*	180° x 132°
Angular resolution (h x v)	Horizontal: ≤ 0.86° · Vertical: ≤ 0.80°
Measurement range	50 m
Frame rate	10 Hz
Dimensions	77 × 76.6 × 56.2 mm
Weight	< 400 g
Power Consumption	< 9 W
Connectivity	1000BASE-T1 automotive ethernet
Ingress Protection	IP6K9K

Integrated IMU

Onboard perception and processing

Near-field solution

as part of ADAS and autonomous driving solutions

180° perception

Precise perception across the entire width

Open Software Framework

for customer applications

Small and Light-weight

for seamless vehicle integration

Low Power Consumption

Typical ≤ 9- 11 W

Subject to change without notice. 2026-08