



**Enabling Autonomous Mobility**  
with Next-Gen LIDAR

# THE NEXT GENERATION LIDAR

FOR THE AUTONOMOUS MOBILITY



Miniaturized massively parallel lidar gives unmatched resolution at long range (>300 m).



Scalable production for large volume applications.

## Unique Features

- ✓ Solid State
- ✓ Beamforming.
- ✓ Flood Illumination.
- ✓ Long-range and low power.
- ✓ Velocity for object classification.

## Broad Applicability

- ✓ Immunity to interference and adverse illumination.
- ✓ Robust in difficult weather.



# The Future of LiDAR Technology

for Robotics and Automotive Applications

## Robotics Applications:

- ⊙ Precision navigation and long-range imaging for enhanced environmental perception.
- ⊙ High-power light sources enabling superior Signal-to-Noise Ratio (SNR).
- ⊙ Scalable solutions for various robotic applications.
- ⊙ Market expansion potential, including industrial and service robots.
- ⊙ Safety and efficiency improvements in robot operations.



## Automotive Applications - Long-Range:

- ⊙ Advanced Driver-Assistance Systems (ADAS) with high-resolution imaging.
- ⊙ Long-range capabilities enhancing situational awareness.
- ⊙ Reliable operation in adverse weather conditions.
- ⊙ Enhanced safety leading to reduced accidents and insurance benefits.
- ⊙ Robust algorithms designed for operation in diverse weather conditions.



## Automotive Applications - In-Cabin:

- ⊙ Advanced in-cabin monitoring with high-resolution imaging.
- ⊙ Vital sign monitoring for enhanced safety. Wide-angle coverage ensuring comprehensive monitoring.
- ⊙ Highly scalable technology customizable for dedicated applications.
- ⊙ LiDAR-enabled features increasing comfort and security.



# ANT SPECS

PARAMETERS	VALUE	UNITS
Measurement range	300	m
Horizontal FoV	120	deg
Vertical FoV	30	deg
Horizontal resolution	0.05	deg
Vertical resolution	0.05	deg
Scan rate	30	hz
Rage precision	<1	mm
Power consumption	15	w
Weight	<1	kg