

# The Future of LiDAR Technology

for Robotics and Automotive Applications

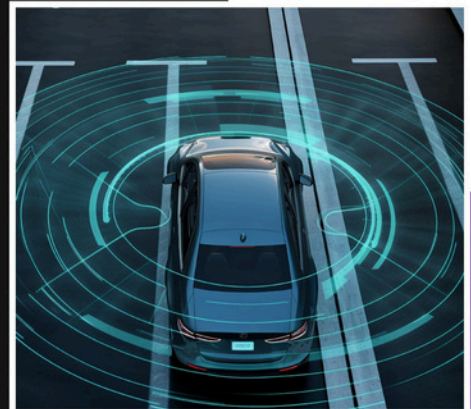
## Robotics Applications:

- ✓ 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
Range precision	<1	mm
Power consumption	15	W
Weight	<1	kg