# 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 |

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