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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 |