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Robin W1G LiDAR

Robin W1G is an automotive-grade LiDAR system developed by Seyond, offering an ultra-wide 120° x 70° (HxV) field-ofview(FOV) and a distance range twice that of similar products on the market while achieving a 10cm minimum distance. Robin W1G is able to withstand harsh environmental conditions while continuing to deliver a high-quality point cloud, delivering superior reliability and product lifetime. Robin W1G is used in automotive (AD/ADAS) sectors, construction machinery, lowspeed vehicles, robotics, Intelligent Transportation Systems and Smart Infrastructure.

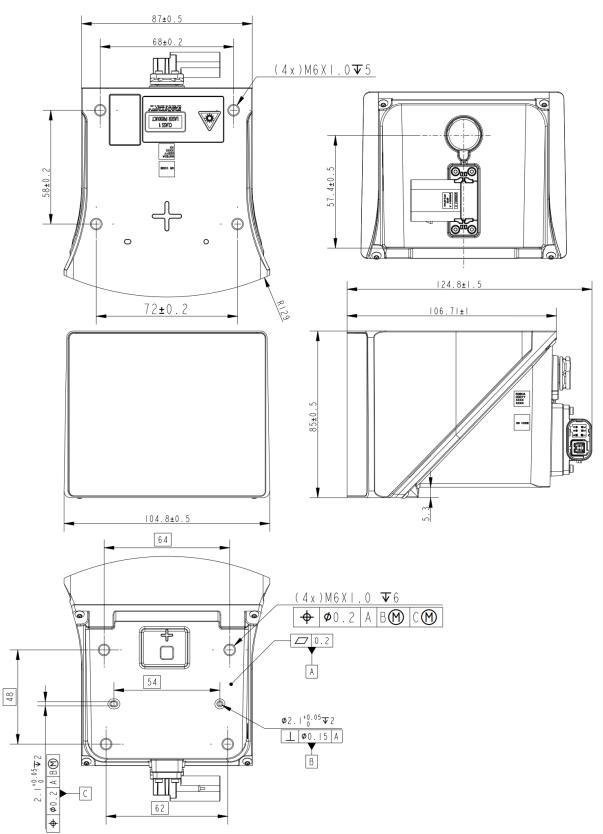


Specifications

| LIDAR PERFORMANCE | |
|---------------------------|--|
| Laser Wavelength | 905 nm |
| FOV (H*V) | 120° *70° |
| Angular Resolution (H*V) | 0.15°*0.36° |
| Detection Range | 70 m, POD>90% (10% Lambertian reflectivity @ 10 Hz) |
| Detection Range (Maximum) | 150 m |
| Detection Range (Minimum) | 0.1 m |
| Range Precision | 1 cm @1σ |
| Range Accuracy | ± 2 cm |
| Frame Rate | 10 to 20 FPS |
| OPERATIONAL/ELECTRICAL | |
| Rated Voltage | 12V DC (Operating Voltage: 9~28V) |
| Operating Current | 0.6 A@12 V (Typical Operating Condition:20°C) |
| Rated Power | 7.2W (Typical Operating Condition:20°C) |
| Operating Temperature | -40 °C to ~ +85 °C |
| Ingress Protection | IP67(body), IP69K(window) |
| Laser safety | IEC 60825-1:2014 Class 1 |
| MECHANICAL | |
| Dimensions (H × W × D) | 85 mm × 104.8 mm × 106.7 mm |
| Weight | 800 g |
| Connector | Proprietary pluggable connector (Power + Automotive Ethernet) |
| TRANSMISSION | |
| Data Interface | 1000BASE-T1 (Data: UDP, Control: TCP) |
| Data Output | Distance, Reflectance, Horizontal & Elevation angle, Timestamp |
| Points Per Second | 1.28M (single return@10Hz) |
| Communication bandwidth | 60Mbps (single return) |
| Time Synchronization | gPTP / PTP / NTP |
| Echo Mode | Single/Dual returns |

Dimensions (Unit: mm)

* This size is the maximum size without connector in three dimensions.



*Specifications are subject to change without notice and based on engineering targets. Specs are not guaranteed to have passed full validation at the time of publication.