



Hummingbird D1-R

Fully Solid-State Ultra-Wide LiDAR



- Fully solid-state electronic scanning, higher reliability and durability
- Compact design for flexible placement and easy integration
- 140°×100° ultra-wide FOV, minimal blind spot <10 cm
- Product optimization for robotics field, with IMU device reserved design

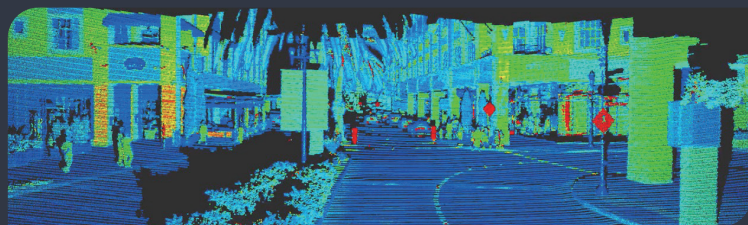
Key Specifications

 0.1m~50m(30m@10%) Detection Range	 140°×100° FOV(H×V)	 0.55°×0.52° Resolution(H×V)	 10FPS Frame Rate
 -40°C~60°C Operating Temperature	 IP67(body), IP69K(window) Water and Dust Protection	 940nm, Class1(IEC-60825) Laser	
 37mm×92mm×45mm Minimum Dimension(H×W×D)	 220g Weight	 6W Power Consumption	

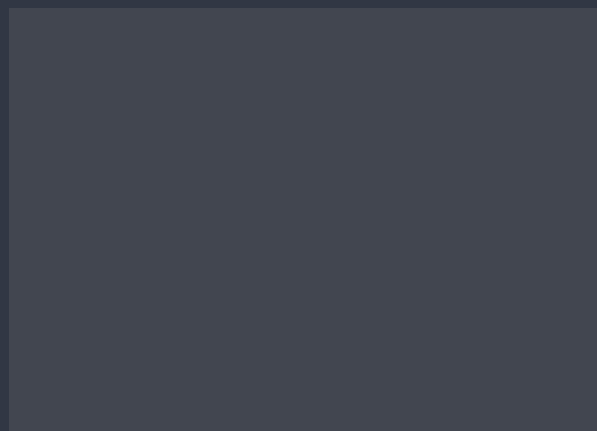
Applications

 ADAS	 Smart City	 Highways	 Railways	 Ports	 Shipping	 Mining	 Robotics
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About Seyond



Seyond is a leading global provider of image-grade LiDAR technology, powering a safer, smarter and more mobile world across the automotive, intelligent transportation, robotics and industrial automation sectors. Founded in Silicon Valley with strategically placed research and manufacturing facilities across the globe, Seyond is crafting LiDAR solutions that elevate advanced driver assistance systems and fuel the advancement of smart infrastructure development.



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Performance



Detection Range (Maximum)*	50m
Detection Range (10% Reflectivity)*	30m
Detection Range (Blind Area)	0.1m
FOV	140°×100°
Resolution*	0.55°×0.52°
Distance Accuracy	±2cm
Distance Precision	2cm(1σ)
Frame Rate*	10FPS

Reliability



Water and Dust Protection	IP67(body), IP69K(window)
Operating Temperature	-40°C~60°C
Laser Wavelength	940nm
Laser Safety	Class1(IEC-60825)

Electrical & Interface



Operating Voltage	9~32V DC
Power Consumption	6W
Data Interface	100M Base-Tx(RJ45/Mini IO/Aviation Connector)
Data Output	XYZ Coordinates, Reflectivity, Timestamp
Time Synchronization	GNSS(PPS Interface)

Mechanical



Minimum Dimension (H×W×D)	37mm×92mm×45mm
Weight	220g

*: Configurable.



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