














# Robin E1X

Long Range LiDAR



- Built with a platform-driven approach, simplifying the core optical scanning structure for outstanding point cloud consistency
- Slim body with ultra-low power consumption, ideal for large-scale production
- Easily adaptable for placement behind the windshield or integration into headlights, grille, or front bumper

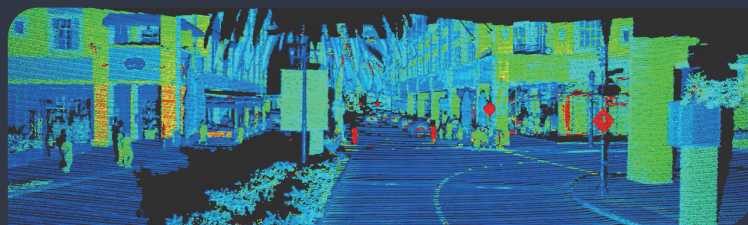
## Key Specifications

 1m~250m(200m@10%) Detection Range	 120°×20° FOV(H×V)	 0.1°×0.1° Resolution(H×V)*	 10~20FPS Frame Rate
 192 lines Scanning Lines / Layers*	 -40°C~85°C Operating Temperature	 IP67(body), IP69K(window) Water and Dust Protection	 940nm, Class 1 (IEC 60825-1) Laser
 30mm×106mm×101mm Dimension(H×W×D)	 470g 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)*	250m
Detection Range (10% Reflectivity)*	200m
Detection Range (Blind Area)	1m
FOV	120°×20°
Resolution*	0.1°×0.1°
Distance Accuracy	±5cm
Distance Precision	3cm(1σ)
Scanning Lines / Layers*	192 lines
Frame Rate*	10~20FPS

## Reliability



Water and Dust Protection	IP69K(window), IP67(body)
Operating Temperature	-40°C~85°C
Laser Wavelength	940nm
Laser Safety	Class1(IEC 60825-1)

## Electrical & Interface



Operating Voltage	9~16V DC
Power Consumption	6W
Data Interface	1000Base-T1 Ethernet, compatible with 100Base-T1(UDP,TCP)
Data Output	Radius, azimuth, reflectivity, timestamp
Time Synchronization	IEEE1588(PTP), IEEE 802.1as(gPTP), NTP

## Mechanical



Dimension (H×W×D)	30mm×106mm×101mm
Weight	470g

\*: Configurable. For more information, please contact Seyond.