



Robin Platform

New-generation LiDAR platform



Robin E1X

Long-range LiDAR

Key Features

- Adopted a platform-based design concept featuring VCSEL, SiPM, and a mature 1D scanning structure for excellent point cloud consistency.
- Compact design, ultra-low power consumption, easy to install
- Up to 250 m range detection capability, featuring advanced crosstalk suppression and noise filtering algorithms - the ideal cost-effective solution for assisted driving systems.



Core Parameters

detection range	1m~250m(200m@10%)
Field of View Angle (HxV)	120° ×20°
Angle Resolution (HxV)	0.1° ×0.2° /0.1° ×0.1°
frame rate	10FPS
Laser beam	Line 96/192
working temperature	-40℃~85℃
Waterproof and dustproof rating	IP6K7 (organism), IP6K9K (window)
Laser wavelength range and safety standards for human eyes	940nm, Class1(IEC60825-1)
Size (HxWxD)	31mmx106mmx101mm
weight	470 g
power dissipation	6.3W



Assisted Driving/Autonomous Driving; Smart Cities; Smart Highways; Smart Rail Transit Systems; Smart Ports; Smart Shipping Systems; Unmanned Mining Trucks; Broad Robotics Applications