



# Robin Platform

New-generation LiDAR platform



# Robin E1X Plus

Second-generation enhanced-performance main-view LiDAR system

## Key Features

- A mature and robust hardware architecture, combined with advanced perception algorithms, delivers high-quality 3D spatial data for assisted driving.
- 0.1° ×0.1° angular resolution enables vehicles to accurately detect small objects scattered within the lane, effectively handling complex scenarios
- With a 200-meter range at 10% standard detection threshold and a maximum range of 250 meters, it enables early identification of distant targets, significantly enhancing driving assistance safety.



## Core Parameters

|                                                            |                                     |
|------------------------------------------------------------|-------------------------------------|
| detection range                                            | Maximum range: 250 m (200 m at 10%) |
| Field of View (HxV)                                        | 120° x19.2°                         |
| Angle Resolution (HxV)                                     | 0.1° × 0.1° (Global)                |
| frame rate                                                 | 10/20FPS                            |
| Laser beam                                                 | Line 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                                                     | 450g                                |
| power dissipation                                          | 7W                                  |



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