



Falcon Platform

Ultra-long-range LiDAR



Falcon K3

Ultra-long-range LiDAR

Key Features

- Compact design with a 50% reduction in size compared to the second generation
- Resolution performance has been further enhanced, with small object detection accuracy improving by 100%
- Third-generation 1550 nm laser transceiver technology ensures long-range, high-definition, and stable imaging performance
- validated across 750,000 Falcon platforms, combining high performance with proven maturity



Core Parameters

detection range	Maximum range: 900 m (450 m at 10%)
Field of View Angle (HxV)	120° ×20°
Angle Resolution (H × V)	0.05° ×0.04° (ROI)
frame rate	10/20FPS
laser passing *	500 Line
working temperature	-40℃~85℃
Waterproof and dustproof rating	IP6K7 (organism), IP6K9K (window)
Laser wavelength range and safety standards for human eyes	1550nm, Class1 (IEC-60825)
Size (HxWxD)	40mmx140mmx120mm
weight	1.0kg
power dissipation	20W
Line count calculation method = VFOV / ROI angular resolution	



Assisted Driving/Autonomous Driving



Smart City, Smart Highways

Smart Rail Transit

Smart Port

Smart Shipping



Unmanned Mining Card



General Robotics