



OS-1 Performance Lidar Sensor



Height: 63mm (2.48in)

Diameter (max): 80mm (3.14in)

Mass: 330g (11.64oz)

Channels	16 or 64
Resolution	64 × 2048 (10 Hz)
Range	Up to 120m
Precision/Accuracy	± 3 cm / Zero bias
Rotation Rate	10–20 Hz
Angular Resolution	Vertical: 0.52° Horizontal/Azimuth: 0.09°
Field of View:	Vertical: +15.8° to -15.8 ° (31.6°) Horizontal: 360°
Beam Divergence	0.13° full angle
Laser Class	Class 1 Eye-Safe
Sampling Rate	1,310,720
Output Per Channel (UDP)	Distance Ambient near-IR Reflectivity Angle Time stamp
Other Embedded Sensors	Inertial Measurement Unit (IMU)