

Specs

Basic Specs

Model	MID-360
Laser Wavelength	905 nm
Laser Safety ¹	Class 1 (IEC60825-1:2014)(Eye Safety)
Detection Range (@ 100 klx)	40 m @ 10% reflectivity 70 m @ 80% reflectivity
Close Proximity Blind Zone ²	0.1 m
FOV	Horizontal: 360°, Vertical: -7°~52°
Range Precision ³ (1σ)	≤ 2 cm ⁴ (@ 10m) ≤ 3 cm ⁵ (@ 0.2m)
Angular Precision (1σ)	< 0.15°
Point Rate	200,000 points/s (first return)
Frame Rate	10 Hz (typical)
Data Port	100 BASE-TX Ethernet
Data synchronization:	IEEE 1588-2008 (PTPv2), GPS
Anti-Interference Function	Available
False Alarm Rate (@ 100 klx) ⁶	< 0.01%
IMU	Built-in IMU Model: ICM40609
Operating Temperature	-4°F to 131°F (-20°C to 55°C) ⁷
IP Rating	IP67
Power ⁸	6.5 W (average)
Power Supply Voltage Range	9 ~ 27 V DC
Dimensions	65×65×60 mm
Weight	265 g
Notes	[1] The divergence of the embedded laser is (horizontal) × 8° (vertical), which was measured at half maximum. The maximum power of the embedded laser may exceed 70 W. In order to prevent being injured by the laser, DO NOT disassemble the sensor.

MID-360

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However, since the detection precision can be guaranteed, the data should be taken as a reference only.

[3] To detect objects having different reflectivities, the detection range, the accuracy of point clouds may decrease slightly.

[4] Tested in an environment at a temperature of 25°C (77°F) with a target object that has a reflectivity of 100% and is 10 meters away from Livox Mid-360.

[5] Tested in an environment at a temperature of 25°C (77°F) with a target object that has a reflectivity of 10% and is 0.2 meters away from Livox Mid-360.

objects within 0.1 to 1 m away from the Mid-360 sensor have a low reflectivity or are thin and tiny, the detection effect cannot be guaranteed. These objects are not limited to black foam and the surfaces of objects that have been polished, have a matte finish, etc.

[6] The false alarm ratio of the noise created by light in a test environment of 100 klx at a temperature of 25°C (77°F).

[7] The performance of Livox Mid-360 might decrease in high-temperature or low-temperature environments, or environments with strong wind, heavy fog, etc. Besides, operating at a high temperature for an extended period of time may negatively affect the performance and may lead to permanent damage to the product. It is recommended to apply extra cooling measures to ensure that the temperature of the shell does not exceed 80°C (176°F). A high temperature will trigger the high-temperature protection mechanism, and Livox Mid-360 will issue a high-temperature warning. Livox Mid-360 will stop automatically if the temperature is too high.

[8] When the ambient temperature is from 0°C to 0°C (32°F), Livox Mid-360 will automatically enter heating mode, where the peak power may increase. Make sure to design the power supply reasonably to ensure the LiDAR sensor works normally.

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