Overview

Livox presents Mid-360S, the latest generation of 3D LiDAR designed for intelligent mobile robots. Featuring advanced hybrid solid-state technology, it brings a new level of 360° spatial perception with superior precision and reliability. Its compact, lightweight design enables seamless integration across a wide range of robotic platforms, ensuring stable and efficient navigation and obstacle avoidance in both indoor and outdoor environments. Mid-360S also offers optimized cost-efficiency and ease of use, delivering a more competitive 3D perception solution for mobile robots and other applications.

Features

10cm Min. Detection Range:

Mid-360S can detect objects as close as 10 cm. Its compact size makes it easy to mount and achieve zero blind spot coverage.

Active Anti-Interference:

Even in an indoor environment with multiple LiDAR signals, Mid-360S can run reliably thanks to its anti-interference design.

Lightweight and Easy to Embed:

The Mid-360S packs powerful performance into a compact footprint. This allows for sleek, concealed integration, unlocking new design possibilities for mobile robots.

360° Super-Wide FOV:

Unlike traditional mechanical LiDAR sensors, the Mid-360S is equipped with Livox's unique hybrid solid-state technology that expands its horizontal FOV to 360° for the first time, while its vertical FOV reaches 59°. With an enlarged FOV, Mid-360S allows mobile robots to sense more complex 3D environments, providing more comprehensive point cloud data for planning and decision-making.

Resistant to Strong Ambient Light:

Mid-360S has a maximum detection range of up to 100 m (cut-off range). It delivers consistently excellent performance in both low-light indoor and bright outdoor environments.

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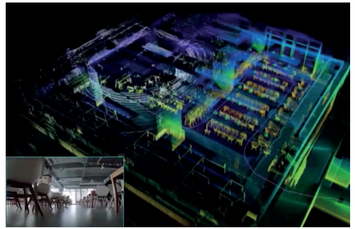
MID-360S

Small but Mighty



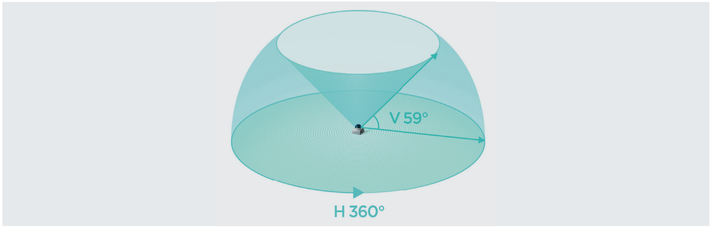
Outdoor Compatibility Unlocks More Possibilities

Mid-360S is not constrained by ambient light. Whether it's in dim corridors or bright outdoor environments, it captures sufficient point cloud data to assist mobile robots in navigation, obstacle avoidance and even detection and classification, fully unlocking the potential of AI.



Enhanced Indoor Perception For Greater Efficiency

Compared with 2D single-line LiDAR sensors, Mid-360S delivers advanced 3D perception that enables mobile robots to collect sufficient environmental data for mapping and positioning. This eliminates the need to modify the spatial environment, and thus greatly improves deployment efficiency. Meanwhile, the angular resolution of Mid-360S improves significantly with integration time, greatly enhancing its ability to sense small obstacles and support the safe operation of robots.



360° Sensing, Next-Level Efficiency

Compared to the traditional combination of single-line LiDAR and depth cameras, Mid-360S offers a superior perception solution for mobile robots. With its ultra-wide 360° × 59° FOV, Mid-360S captures richer 3D spatial data, empowering safe and efficient intelligent operations at the worksite.

Supported Software

Livox SDK 2:

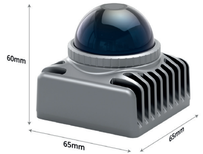
Supports multiple development platforms such as Linux, Windows, and ROS, as well as various programming languages including C, C++, and Python.

Livox Viewer 2:

A GUI tool for real-time display, recording, playback, and analysis of 3D point clouds. It also supports advanced features such as custom safety zones, product settings, and extrinsic parameter adjustment.

Spec

Product	Mid-360S
Laser Wavelength	905 nm
Detection Range (@100 klx)	40 m@10% reflectivity (typical value) 100 m (cut-off range)
Min. Detection Range	0.1 m
FOV	360°×59°
Range Precision (1σ)	≤2 cm (@10 m) ≤4 cm (@0.2 m)
Angular Precision (1σ)	<0.15°
Point Rate	200,000 points/s (configurable first return)
Frame Rate	10 Hz (typical value)
Anti-interference	Available



Data Port	100 BASE-TX Ethernet
Data Synchronization	IEEE 1588-2008 (PTPv2), PPS (Pulse Per Second), GPS (PPS+UTC)
Operating Temperature	-20°C - 55°C
Power	6.5 W
Power Supply Voltage Range	9~27 V DC
Dimensions	65×65×60 mm
Weight	265 g