

N301 Series TOF Navigation & Obstacle Avoidance LiDAR



Abstract

The N301 series of LiDAR adopt the TOF principle, with a 360° scanning and measurement range is up to 150m. The ranging accuracy is $\pm 3\text{cm}$, which can identify the position, size and moving direction of the detected object in real time.

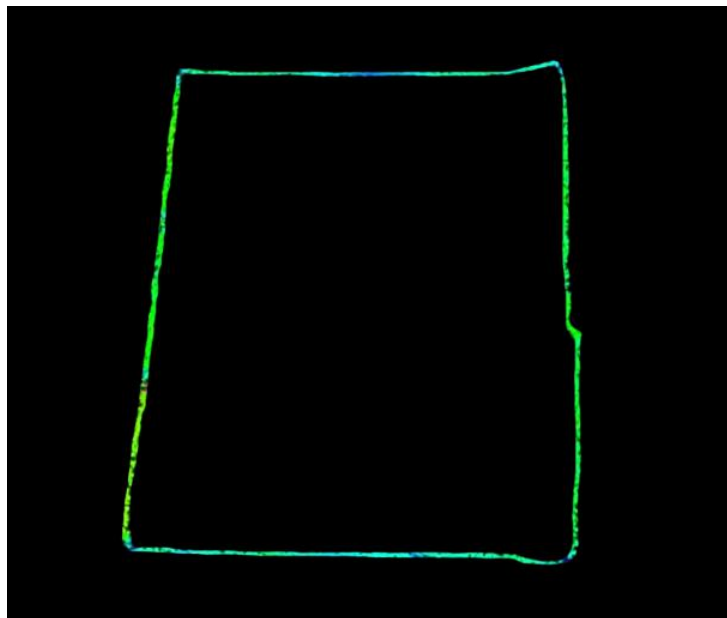
Features

- 360° FOV , long measurement range
- The minimum angular resolution reaches 0.18° , ensuring measurement data accurately and stably.
- Configuring an Ethernet interface for high-speed data transmission

Application field

- ADAS
- High-precision Autonomous positioning and navigation of service robots
- AGV navigation and obstacle avoidance, regional security

Demo



Specifications

Model	N301	N301HA
Wavelength	905nm	
Laser Product Classification	Class 1Eye-safe /IEC 60825-1:2007&2014	
Data content	Distance /Angle	
Measurement Range	10m/30m/50m/100m	
Ranging Accuracy	±3cm	
Positioning accuracy	±1cm	
Scanning angle	360°	
Rotation Rate	10Hz / 20Hz	
Pulse Repetition Rate	20,000 points per second	300,000 points per second
Angular Resolution	20Hz:0.36° 10Hz:0.18°	20Hz:0.024° 10Hz:0.012
Operating Voltage	9V ~ 36VDC	
Operating Temperature	-20°C ~ 60°C	
Motor	Built-in Brushless Motor	
Communication Interface	Ethernet	
Weight	420g(±20g)	
Dimension (D·H)	Φ80*79.1mm	