

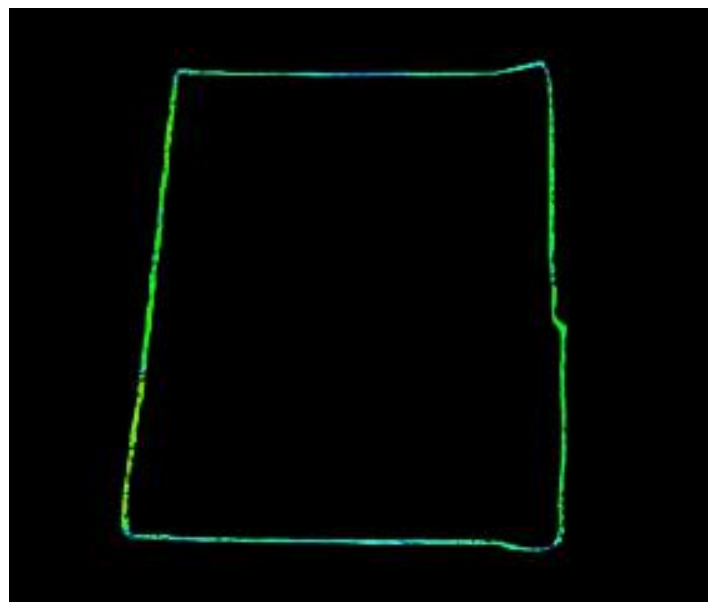
N301/N401 Navigation & Obstacle Avoidance LiDAR



Abstract

N301/N401 adopts the TOF principle, with a 360° scanning and measurement range is up to 50m, which can identify the position, size and moving direction of the detected object in real time. N301 performs strong shock and vibration resistance, widely used in high-precision autonomous positioning and navigation of service robots, AGV navigation and obstacle avoidance, regional security, etc. N401 can identify high or low reflectance object, which is mainly applied in navigation of AGV or unmanned forklift with reflective board.

Demo



Parameters

Model	N301	N401
Wavelength	905nm	
Laser Classification	Class 1 (Eye-safe)	
Data Content	Distance, Angle	Distance, Angle, Reflectivity
Range	10m / 30m	
Ranging Accuracy	±3cm	±4cm
FOV	360°	
Rotation Rate	5 Hz, 10Hz, 20Hz (Optional)	
Data Points Generated	20,000 pts/s	
Angular Resolution	5Hz:0.09° /10Hz:0.18° /20Hz:0.36°	
Operating Voltage	9V ~ 36V DC	
Operating Temperature	-20°C ~ 65°C	
Motor	Built-in Brushless Motor	
Communication Interface	Ethernet	
Shock Test	500m/sec ² , last11ms	
Vibration	5Hz-2000Hz, 3G rms	
IP	IP67	
Weight	406g	410g
Dimension (D·H)	Φ80 * 79.1mm	

Remarks: N301 and N401 also have GPS synchronization time service version, please contact the staff for details.