

## N401 Series TOF Navigation Obstacle Avoidance LiDAR



### Abstract

The N401 series of LiDAR adopt the TOF principle, with a 360°scanning and measurement range is up to 150m. the distance accuracy can reach  $\pm 1\text{cm}$  base on reflector. Widely used in robot, AGV High-precision positioning and navigation, obstacle avoidance.

### Specifications

Model	N401	N401HA
Wavelength	905nm	
Laser Product Classification	Class 1 Eye-safe / IEC 60825-1:2007&2014	
Data content	Distance / Angle / Reflectivity	
Measurement Range	10m/30m/50m/100m	
Ranging Accuracy	$\pm 3\text{cm}$	
Positioning accuracy	$\pm 1\text{cm}$	
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( $\pm 20\text{g}$ )	
Dimension ( D·H )	$\Phi 80 \times 79.1\text{mm}$	