



TOF-30 Navigation type Laser Radar



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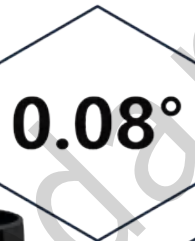
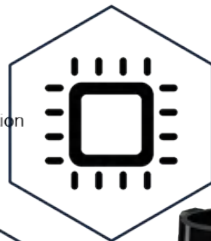
Product parameters

Basic Information	
product name	2D TOF Navigation Lidar XD
Model	XD-TOF- 30
Measurement characteristics	
Detection range	0.1-30M@90% reflectivity 0.1-10m@10% reflectivity
Ranging accuracy	±30 mm
Scan range	270°
Point cloud data merge	1/2/4/8 point
Scan frame rate	10-30 Hz
Minimum angular resolution	0.08°
Photoelectric characteristics	
Voltage	DC12 V-24 V
Laser light source	905 nm class I
Power consumption	2.5W
Other	
Data transmission interface	Ethernet 100BASE-TX
Start Time	< 10 s
Indicator light	Power indicator, Status indicator
Ambient light	15000lux
Operating temperature	-10°C~55°C
Storage temperature	-30°C~75°C
Humidity	< 80%
life span	5 years (motor life)
Vibration test	10-55Hz, amplitude 0.75mm, XYZ triaxial, 2 hours per axis; 50-500Hz, 196m/s ² (20G), sweep rate 2min/cycle, XYZ triaxial, 2 hours per axis
Protection class	IP65
Size	50 ×50 ×76 mm ³
Weight	148 g (Without cable)

Product Features

TOF chip solution

16psTime resolution
Automatic correction function



Ultra high resolution

High point cloud density
0m/20m/30m working area
270° scan

High-quality point cloud technology

Higher point cloud quality
Better construction effect

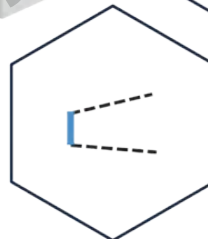
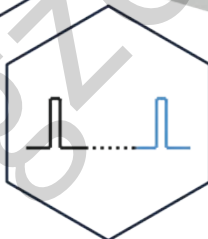
High point cloud rate

45k/s

HQPC

Multi-echo function

Resistant to dust and rain
Accurate identification in harsh environments

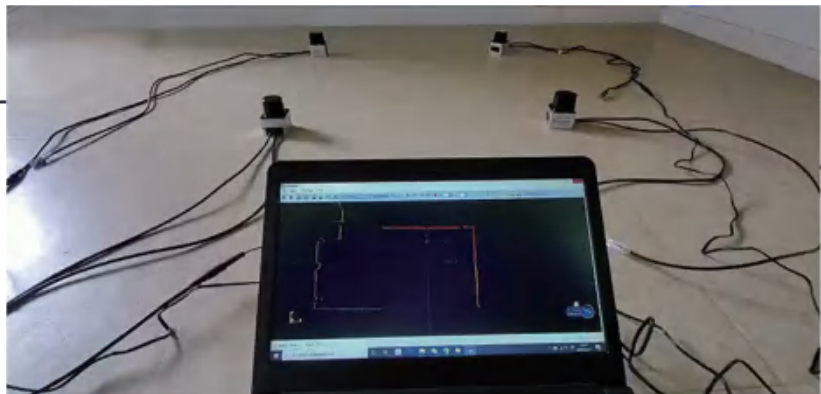


Smear effect

Accurate trailing filtering algorithm
Effective feature recognition

Multiple radars launching interference

Our laser scanner has the function of preventing the opposite emission, even if multiple units are used, it will not affect

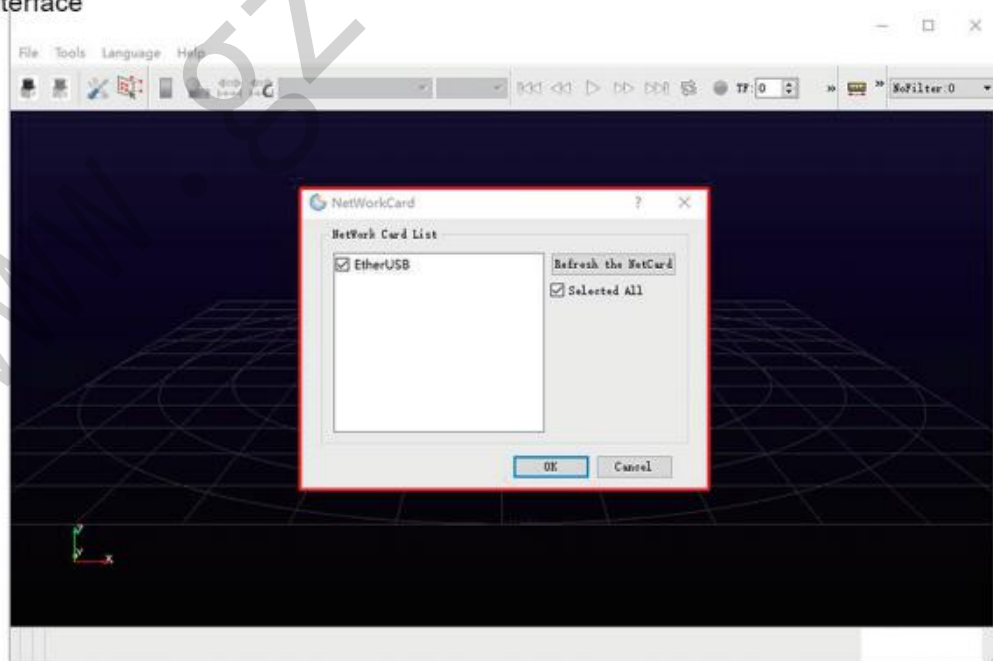


Software diagram

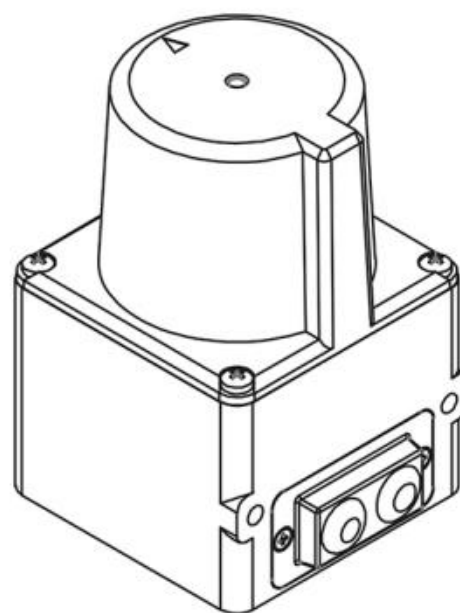
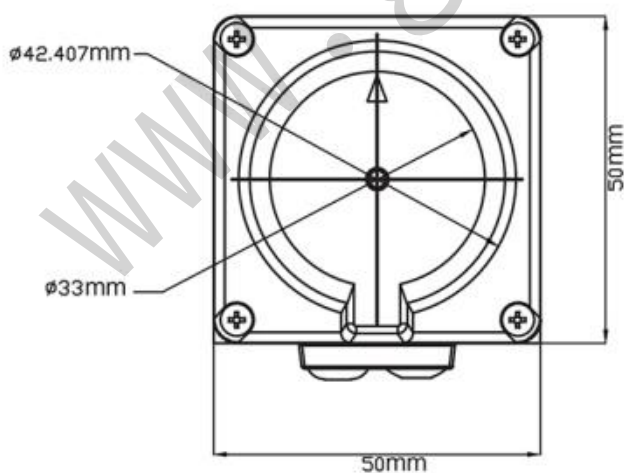
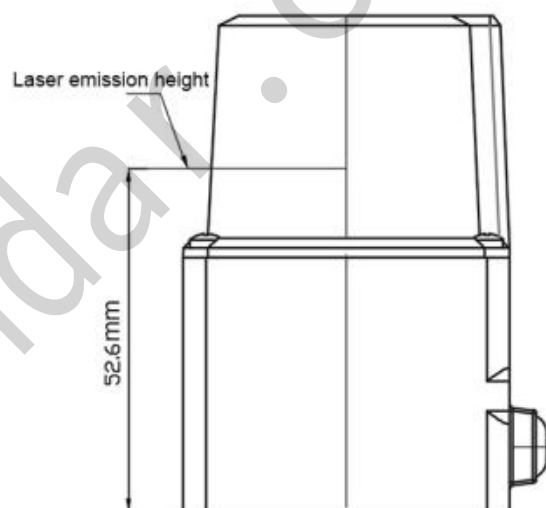
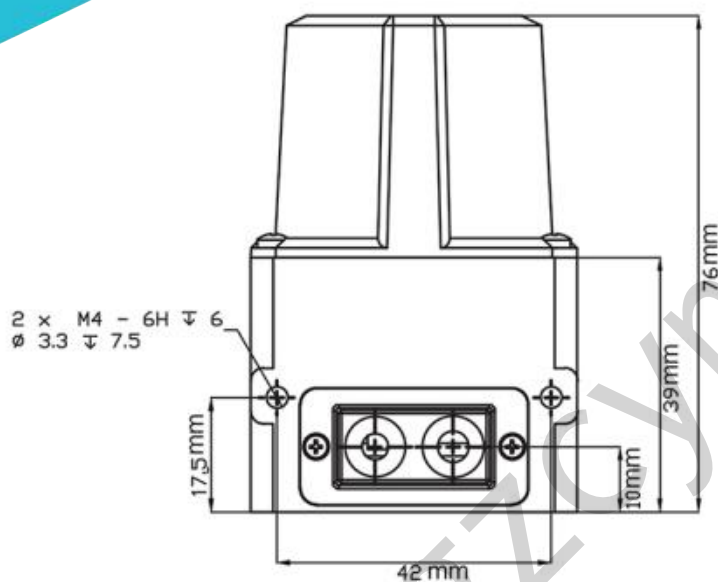
Example of a point cloud



software interface



Product Size



Power accessories

Power plug



Power connector

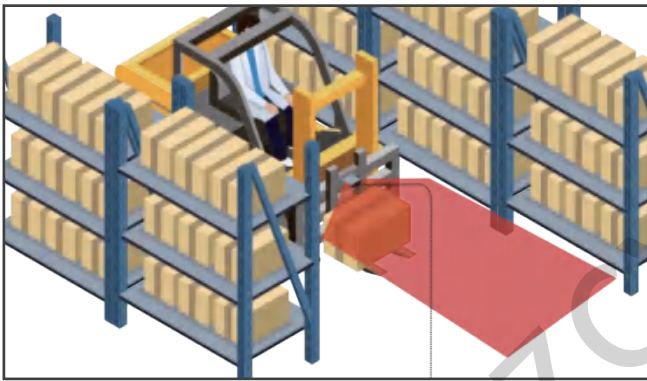


network port line

power cord



Application field



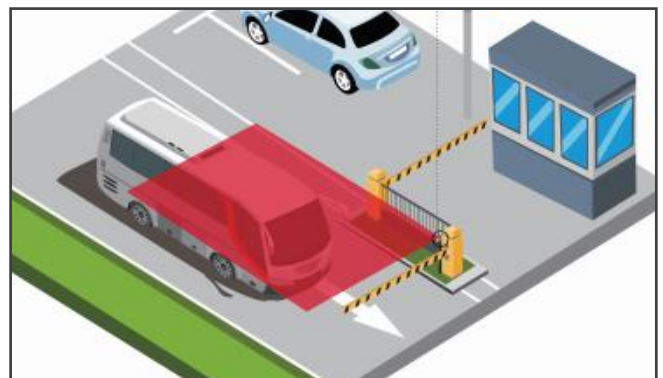
Protect people in narrow aisle warehouses



Boarding bridge anti-collision system



Liquid level detection



Classify vehicles

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