



TOF-10HM Navigation Type Laser Radar



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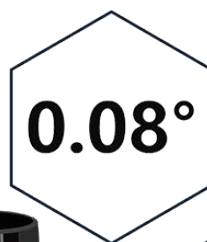
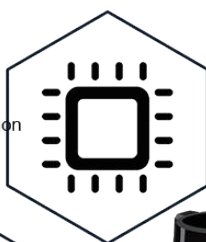
Product parameters

The product name	2D TOF Navigation Lidar XD
Model	XD-TOF-10HM
Detection range	0.1-5 m @10% reflectivity 0.1-10 m @90% reflectivity
Ranging accuracy	±30mm
Scan range	270°
Scan the frame rate	20Hz
Angular resolution (fixed)	0.32°
The power supply voltage	DC12V-24V
Working current	0.21A/12V (typical)
The laser light source	905nm class I
Power consumption	2.5W
Data transmission interface	Ethernet 100BASE-TX
The startup time	< 10s
Indicator light	Power indicator/status indicator
The ambient light	< 50,000Lux
Working temperature	-10°C~55°C
Storage temperature	-30°C~75°C
Humidity	< 80%
life span	5 years (motor life)
Vibration test	10-55 Hz, amplitude 0.75 mm, XYZ triaxiality, 2 hours per axis; 50-200 Hz, 196 m/s ² (20 g), sweep rate 2 min/cycle, XYZ triaxiality, 2 hours per axis
Protection class	IP65
Size	50×50×76mm
Weight	148g (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

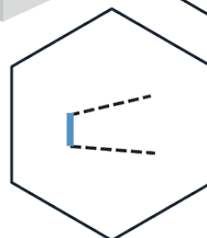
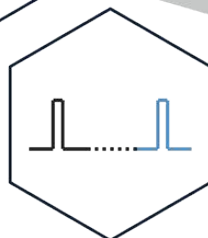
45k/s



HQPC

Multi-echo function

Resistant to dust and rain
Accurate identification in harsh environments

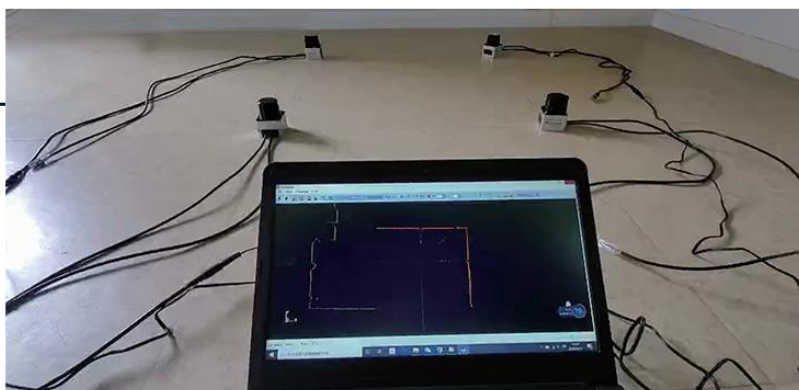


Smear effect

Accurate trailing filtering algorithm
Effective feature recognition

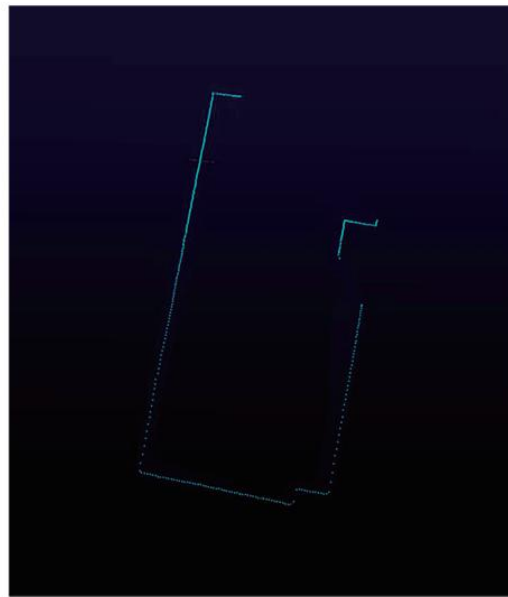
Multiple radars launching interference

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

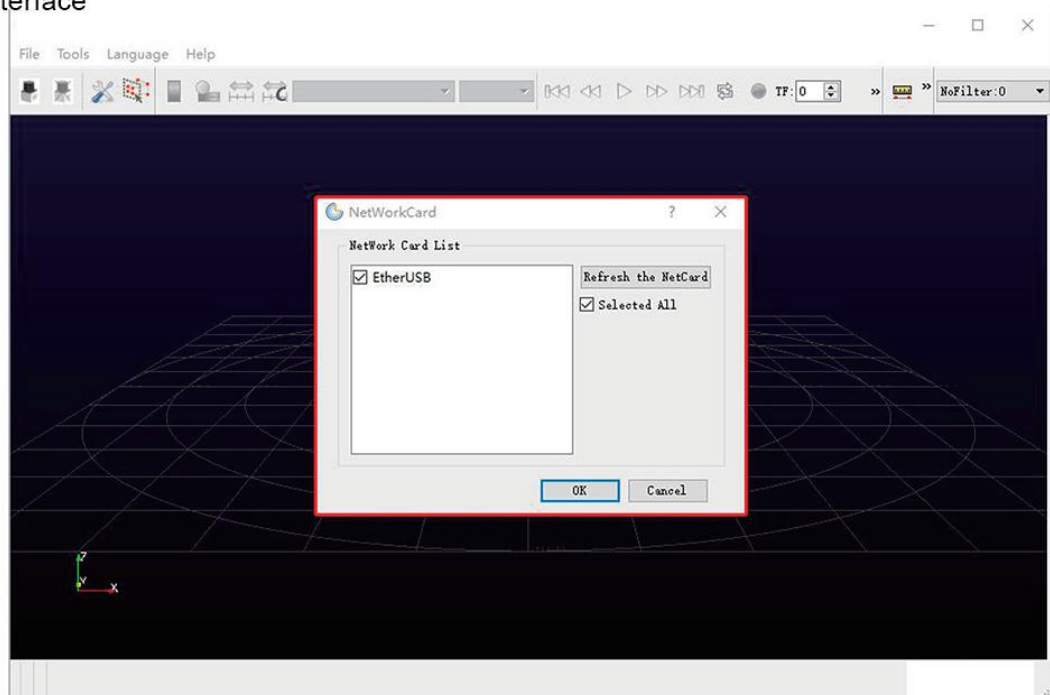


Software diagram

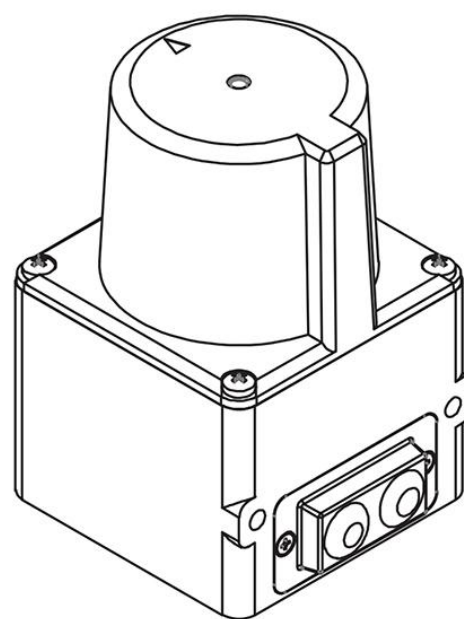
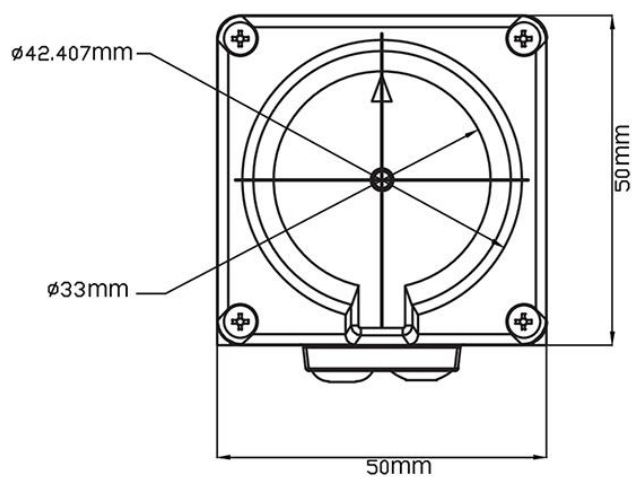
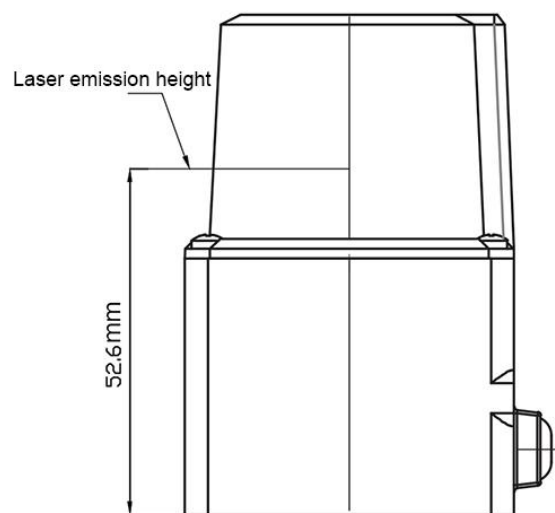
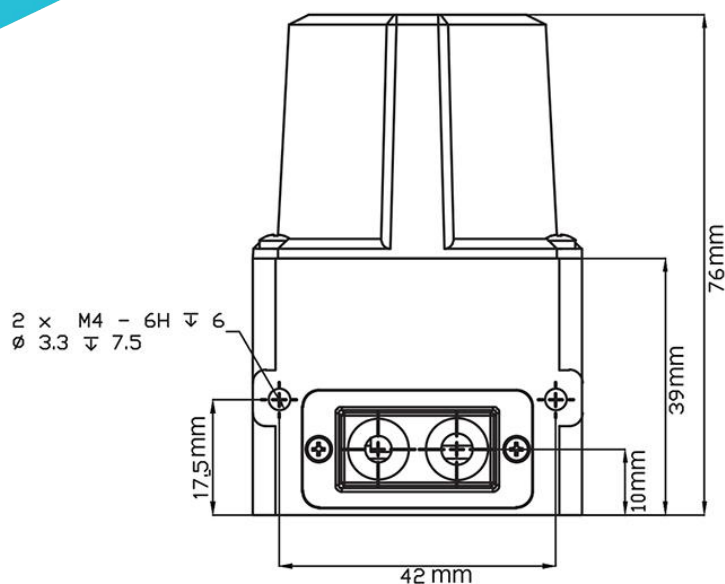
Example of a point cloud



software interface



Product Size



Power accessories

Power plug



Power connector

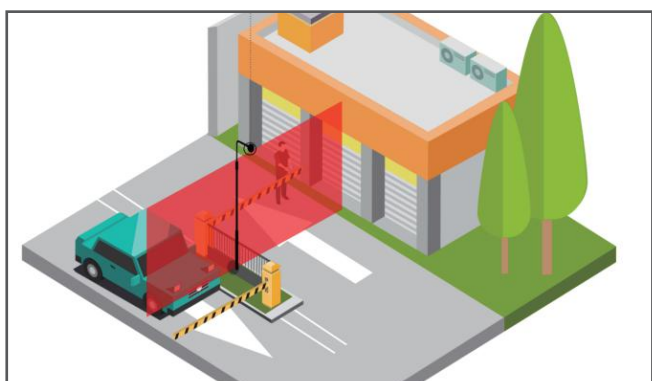


network port line

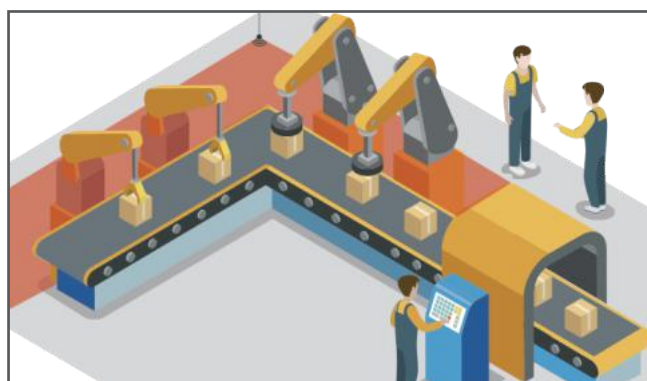
power cord



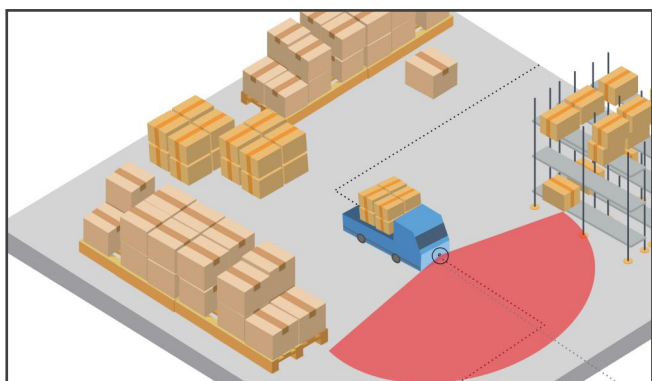
Application field



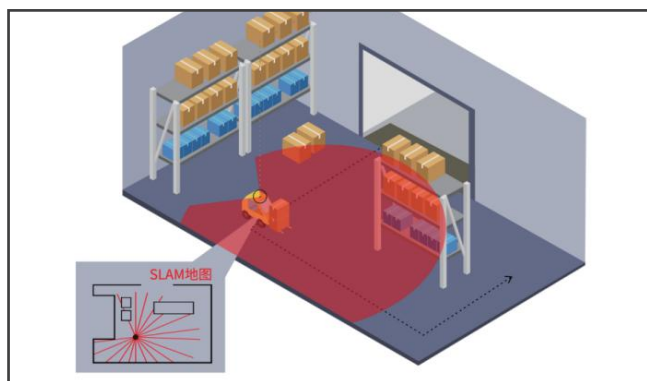
Anti-climb protection for obstacles



Conveyor safety monitoring



Monitoring automatic guided vehicle/AGV



SLAM map reconstruction

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