



TOF-10HM Navigation Type Laser Radar



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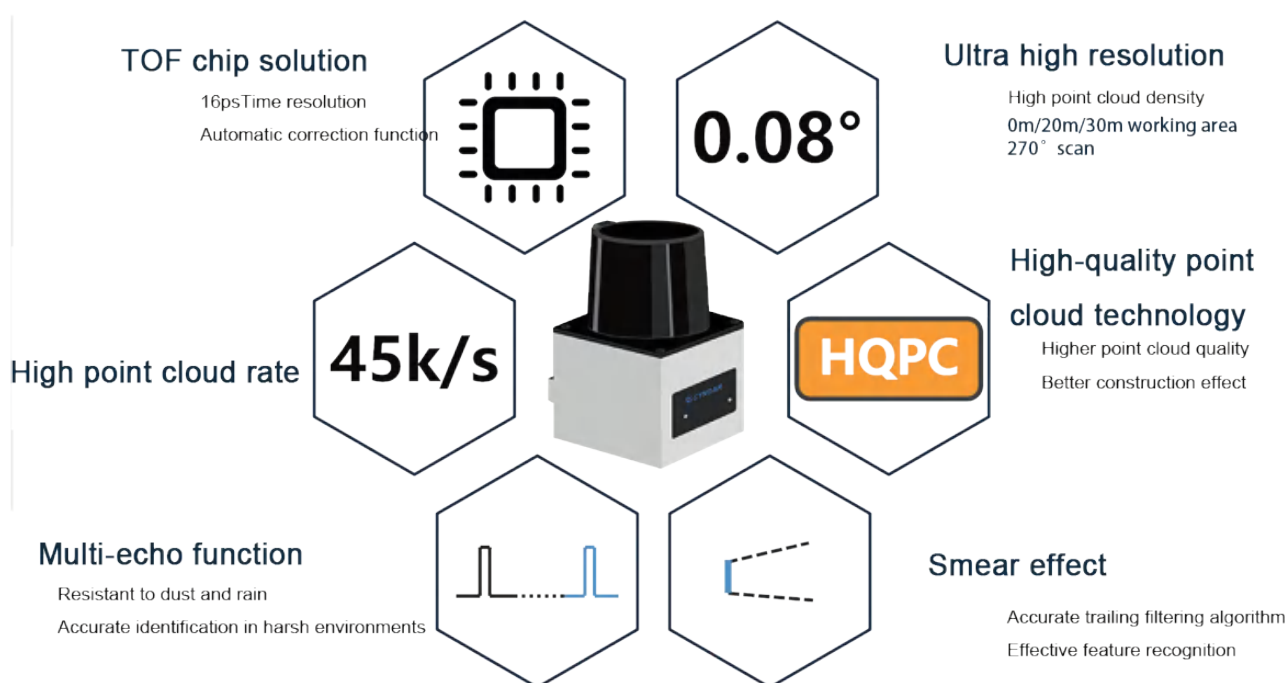
Product Brief

XD-TOF-10HM navigation type laser radar

10HM series two-dimensional TOF navigation type laser radar.

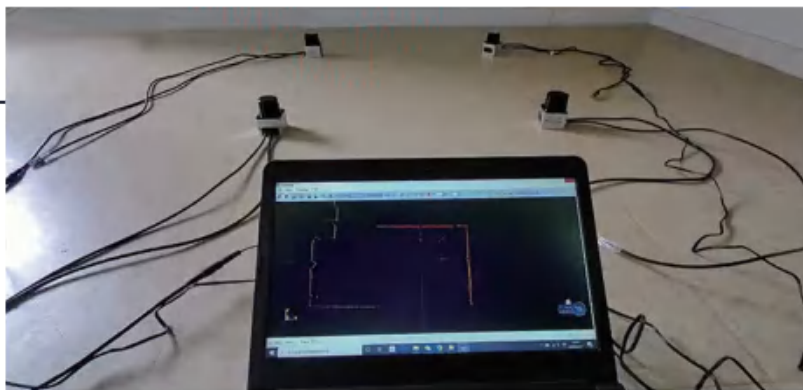
10 meters monitoring, convenient and fast multi-layer safety protection area setting, small measuring spot, high accuracy for measuring small objects. With nano optical dust cover, extend the service life.

Product Features



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



Product parameters

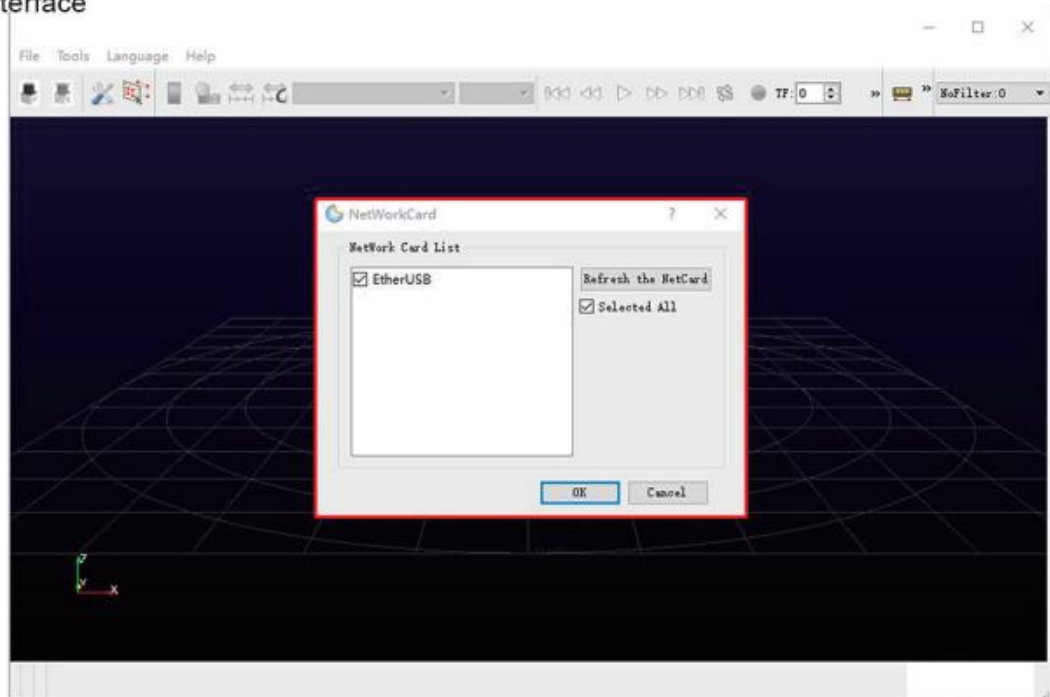
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|-----------------------------|---|
| The product name | 2D TOF Navigation Lidar XD |
| Model | XD-TOF-10HM |
| Detection range | 0.1-5 m @10% reflectivity 0.1-10 m @90% reflectivity |
| Ranging accuracy | ±30mm |
| Scan range | 270° |
| Scan the frame 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℃~55℃ |
| Storage temperature | -30℃~75℃ |
| 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/s² (20 g), sweep rate 2 min/cycle, XYZ triaxiality, 2 hours per axis |
| Protection class | IP65 |
| Size | 50×50×76mm |
| Weight | 148g (without cable) |

Software diagram

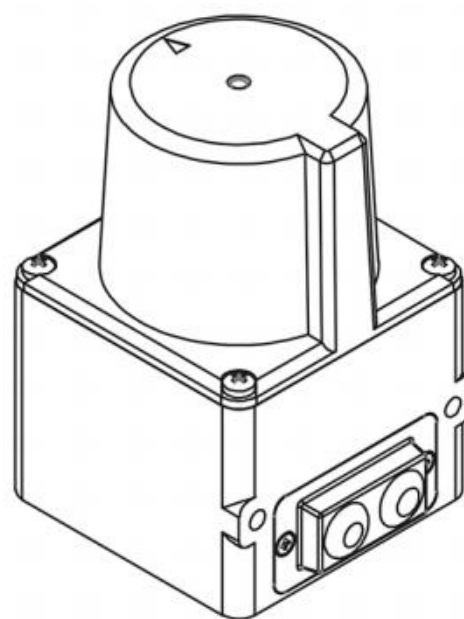
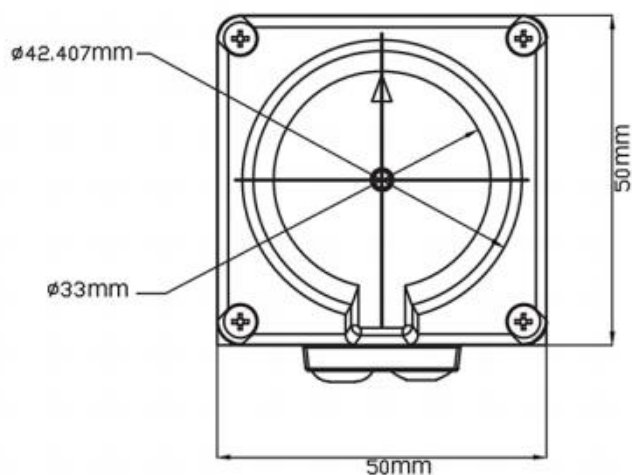
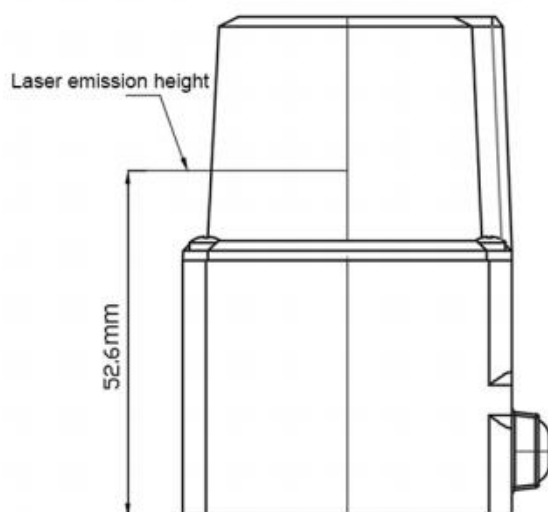
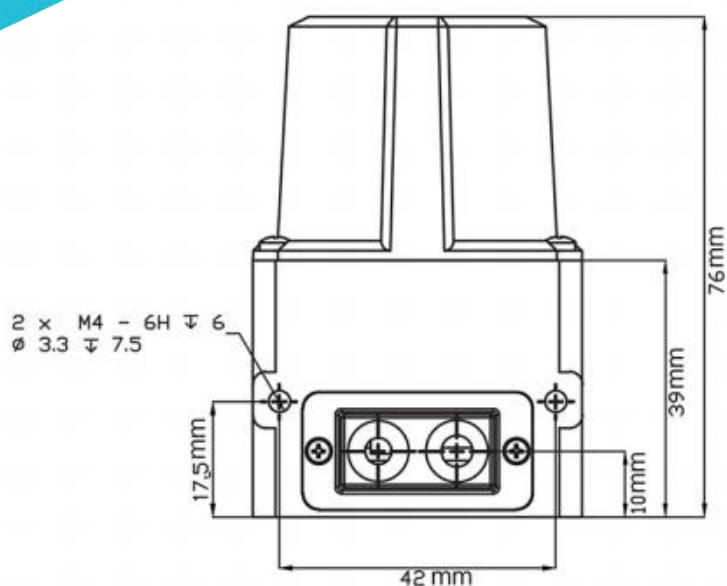
Example of a point cloud



software interface



Product Size



Power accessories

Power plug



Power connector

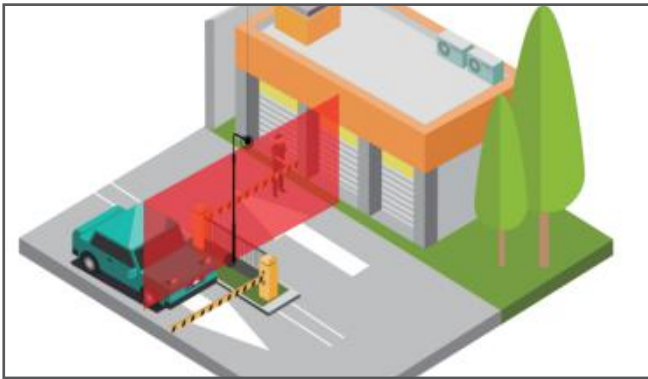


network port line

power cord



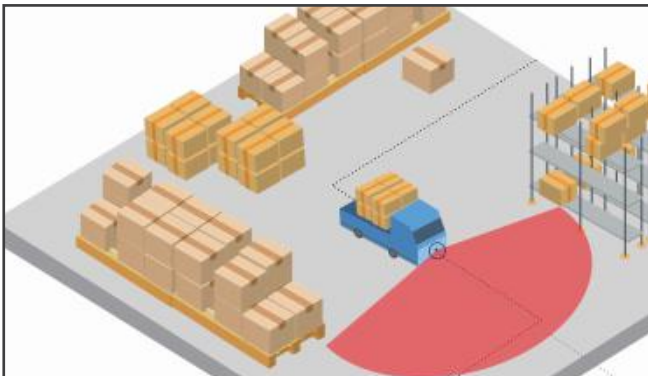
Application field



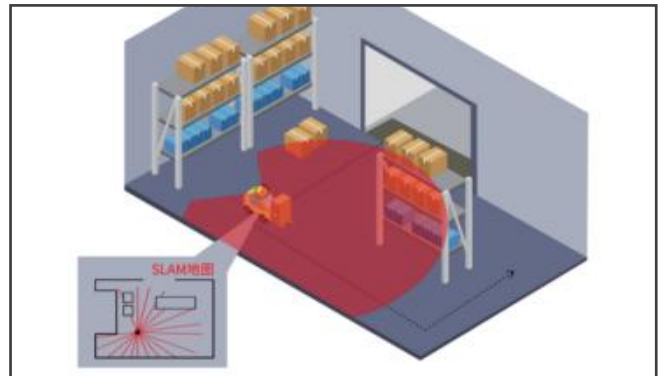
Anti-climb protection for obstacles



Conveyor safety monitoring



Monitoring automatic guided vehicle/AGV



SLAM map reconstruction

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