

TOF-20S Navigation type Laser Radar



CYNDAF

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Product Brief

XD-TOF-20S Navigation Lidar

20S series two-dimensional TOF navigation type laser radar. 20 meters monitoring, 300° scanning angle. Weak measuring spot, 6 groups of areas, support self-learning background cropping, two-way ranging technology. Built-in point number monitoring, target width monitoring, contour detection. Support remote operation.

Product Features





20 meters away 0.5° angular resolution 300°scanning angle



Multi-region monitoring Independent setting of monitoring area Three signal outputs



External interface Power socket, Ethernet socket and I/O lead Working voltage power consumption 9V~28V DC/5W



16 regional group settings Quick configuration, fast loading



Monitoring mode: Point monitoring target width monitoring contour line monitoring



Shield monitoring signal output Start background self-learning Reboot the device



Product parameters

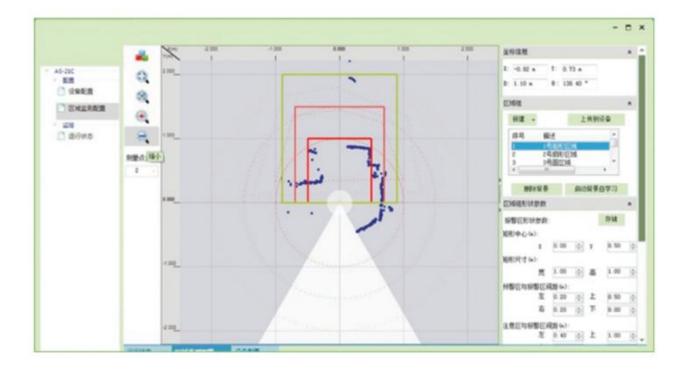
Characteristic XD-TOF-20S			
light source	Infrared laser (905nm)		
Laser safety level	Class I (GB7247.1-2012, human eye safety)		
Laser spot exit caliber	8mm		
Laser spot divergence angle	12.5m rad		
Scanning angle range	300°		
Scanning frequency	25Hz		
Scanning angle resolution	0.5°		
Detection range	0.1m~20m		
10% reflectivity range	10m		
Outdoor performance	Resistant to dirt and sunlight		
Rain, fog and dust penetration	Support		
Range of working temperature	- 25 °C ~+50 °C		
Storage temperature range	- 30°C ~+70°C		
Environmental illumination range	≤ 70000 lux		
Frequency Range	10Hz~150Hz		
Operating Voltage	9V~28V		
Power consumption	5W		
Enclosure rating	IP65 (GB4208~2088)		

Technical performance			
System error (typical value)	5cm (1~20m)		
Statistical error (1σ)	2cm (1m~20m)		
Monitoring mode	Number of points / target width / contour detection		
Types of monitoring signals	Attention/Warning/Alarm		
Number of regional groups	16 groups, support self-learning background tailoring		
Number of concurrent work area groups	16 groups (max)		
Equipment self-test	Translucent cover is dirty/shielded/high temperature/low temperature		
Humidity	93%, +40°C, 2h (GB/T 2423.3)		
Insulation resistance	1MΩ (GB16796~2009.5.5.4)		

Product parameters

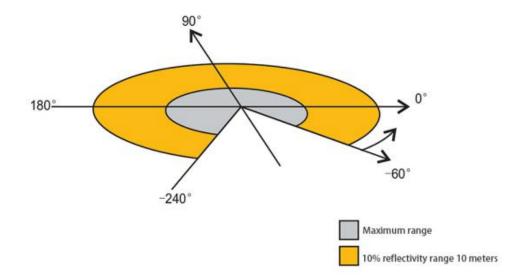
Device interface				
Electromagnetic compatibility (EMC)	Electrostatic discharge	6KV (GB/T17626. 4~2006, Level 3)		
	Fast burst	1KV (GB/T17626. 4~2008, Level 2)		
	Electromagnetic field radiation immunity	GB/T17626. 3~2006, Level 2		
Surge immunity		GB/T17626.5-2008; Power interface: 1.2/50µs, 2KV/1KA (level 3); Ethernet interface: 10/700µs, 1KV/25A (level 2); I/O interface: 1.5/50µs, 0.5KV/0.25KA (level 1);		
Shock		GB/T 2423.5		
Single impact		15g, 11ms		
Continuous shock		10g, 16ms		
Vibration		GB/T 2423.10		
Amplitude		5g		
Ethernet		Rate: 10/100 Mbps; Network protocol: TCP/IP; Function: equipment configuration/measurement data output/monitoring signal output		
I/O input		Quantity: 4 Type: Level input High level: 9V~28V DC Low level: 0~5V DC Input current: 3.6mA(max) Preset function: Monitoring area group selection (0x0~0xF) Regional monitoring disarm/control alarm, effective level: high level		
I/O output		Quantity: 4; Type: PNP OC output; Output voltage: power supply voltage; Power on state: cut off; Preset function: area monitoring signal output/device ready, valid state: high level		
Indicator light		Quantity: 2; Definition: ERR (equipment alarm: dirty/shielded light shield, high and low tempera- ture); HTR (operation status indication: detection signal/self-learning/ready to restart)		
Front panel buttons		Quantity: 1; Definition: shield monitoring signal output/start background self-learning/restart device		

Software diagram

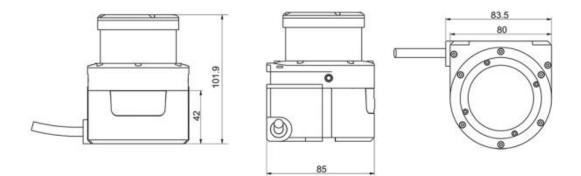


Product Size

Measuring coordinate system/scanning range/range



Product size chart





Power accessories

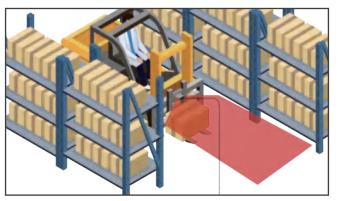


	-		Mounting screws, washers And easy installation tool
1	1	1	1
Mounting bracket	power cable	waterproof protective jacket for network cable crystal head	M4*8

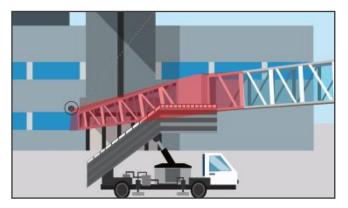
Device interface: three external interfaces, namely power socket, Ethernet RJ45 socket and I/O lead

power	Socket	Types	Explanation
1/0	Dc002	power	Female 2 core
and the second	Ethernet	RJ45 socket	4 core
Network	I/O	lead	9 core

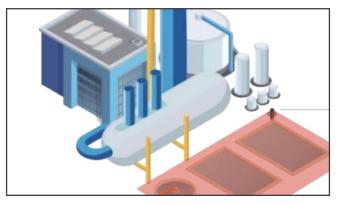
Application field



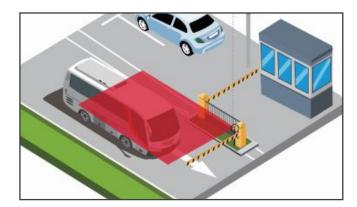
Protect people in narrow aisle warehouses



Boarding bridge anti-collision system



Liquid level detection



Classify vehicles

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