

TE Series 2D LiDAR



TE is a sensitive industrial grade obstacle avoidance lidar with a scanning frequency of up to 30Hz, which can be applied in industrial automation, perimeter security and other scenarios.



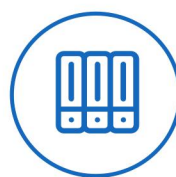
Angular resolution
adjustable

01



Modbus protocol
Supported

02



Higher reliability

03



Protection level IP67

04



Specification

Model	TE10
Ranging Principl	dToF
Wavelengt	905nm
Horizontal Field of View	270°
Measurement Range	≥20m@70%reflectivity ≥10m@10%reflectivity
Scan Frequecy	10Hz; 15Hz; 20Hz; 25Hz; 30Hz
Data Sample Rate	22.5kHz
Horizontal Resolution	0.16° (10Hz) 0.24° (15Hz) 0.32° (20Hz) 0.4° (25Hz) 0.48° (30Hz)
Accuracy(Typical)	±2cm
Interface	
Data Protoco	RS485-MODBUS
Digital Channel	4 Digital Inputs, 4 Digital Outputs
Digital Output	4 NPN (or PNP), $I_{out} \leq 100\text{mA}$
Response Time	33ms(30Hz)
Start Time	<15s
Detection Output Time	0 ~ 1000ms
Detection Holding Time	0 ~ 1000ms
Laser and Electrical	
Laser Safety	Class 1 eye safety
Ambient Light Immunity	< 100000 lux
Rated Voltage Range	9 ~ 36V
Power Consumption(Typical)	2.5W
Other Parameters	
Dimension	(D × W × H) 55mm × 55mm × 51mm
Operating Temperature	-25℃ ~ 60℃
Storage Temperature	-40℃ ~ 75℃
Ingress Protection	IP67

