

TOF-лидары AS-21/41C

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: auh@nt-rt.ru || сайт: <https://akusense.nt-rt.ru>

TOF Principle

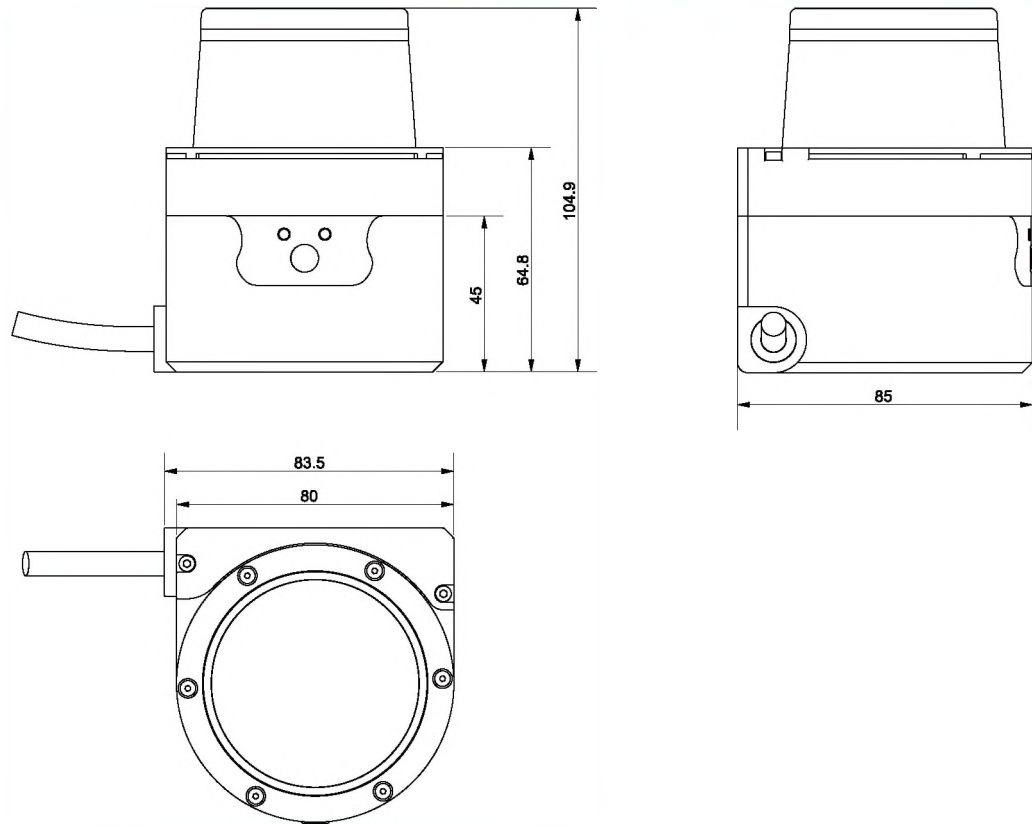


Appearance			
Light source		Infrared laser(905nm)	
Laser safety level		Class 1 (GB7247.1-2012, Eye-safe IEC)	
Laser spot light diameter		8mm	
Laser spot light scan angle		12.5 mrad	
Scanning angle range		300°	
Scanning frequency		25Hz(system default)/12.5Hz/6.25Hz	
Scanning angle resolution		0.5° (system default)/0.25° /0.125°	
Sensing range		0.1m ~ 20m	0.1m ~40m
10% reflectivity range		15m	30m
Outdoor performance		Anti-dusty, Anti-sunlight	
Rain fog and smoke penetration		Supported	
Measurement error	System error (typical)	± 5cm	± 5cm (1m~20m) ; ± 10cm (20m~40m)
	Statistical error (1σ)	± 2cm	± 2cm (1m~20m) ; ± 4cm (20m~40m)
Built-in application Regional monitoring		Monitoring mode: Point number monitoring / target width monitoring / contour monitoring	
		Monitor signal level: Attention / warning / alarm	
		Number of regional groups: 16 groups, support self-learning background exclusion	
		Concurrent work area group number: 16 (max)	
		Guide the network camera to monitor the target video positioning and tracking	
Self-test equipment		Contents:Transparent cover dirt / block / high temperature / low temperature Output mode: Indicator + TCP packets	
Ethernet		Rate: 10/100 Mbps; Network protocol: TCP/IP; Function: Device configuration / measurement data output /monitor signal output	
I/O Input		Quantity: 4; Type: Switching level input; High level range: 10V~28V DC; Low level range: 0V~5V DC Preset function: Monitor area selection (0x0 ~ 0xF); Regional monitoring disarm / forced alarm, active level: high level	
I/O Output		Quantity: 4; Type: PNP switch output ; Output voltage: Supply voltage;Power on: OFF;Device ready (OUT), active state: pass (High level), zone detection signal output (OUT2/OUT3/OUT4) active state: configurable	
Indicator light		Quantity: 2; Definition: ERR (Device alarm: Fault/Abnormal ,Transparent cover dirty / block, high and low temperature, Dense fog); HTR (operation status indication: detection signal / self-learning)	
Front panel button		Quantity: 1; Definition: Shielded monitor signal output / start background self-learning /restart device	
Operating voltage		10V~ 28V DC	
Power		5W(measuring),3.6W@DC 12V/14.4W@DC 24V(heating)	
Outer covering protection rank(IP)		IP65(GB4208-2008)	
Insulation resistance		1 M Ω (GB16796-2009.5.4.4)	
Dielectric strength		0.5KV(GB16796-2009.5.4.3)	
Weight		0.6kg	
Dimension(L×W×H)		83.5 × 85 × 104.9(mm)	
Electromagnetic compatibility (EMC)	Electrostatic discharge	6KV (GB/T17626.2-2006, class 3)	
	Fast bursts	1KV (GB/T17626.4-2008, class 2)	
	Electromagnetic field radiation immunity	GB/T17626.3-2006, class 2	
Surge immunity		GB / T17626.5-2008 Power interface: 1.2 / 50 μs, 2KV / 1KA (Class 3) Ethernet interface: 10 / 700 μs, 1KV / 25A (Class 2); I / O interface: 1.5 / 50 μs, 0.5KV / 0.25KA (Class 1)	
Impact		GB/T 2423.5	
Single impact		15g, 11ms	
Continuous impact		10g, 16ms	
Vibration		GB/T 2423.10	
Frequency Range		10Hz~150Hz	
Amplitude		5g	
Humidity		93%, +40℃, 2h (GB/T 2423.3)	
Operating temperature range		-25℃~+50℃	
Storage temperature range		-30℃~+70℃	
Ambient illumination range		≤70,000lux	
Model NO.		AS-21C	AS-41C

LiDAR Scanner

Dimensions

Unit:mm

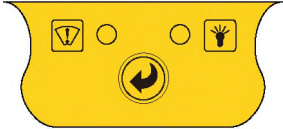


Power Interface

 I/O Power Network port	Socket	Type	Explanation
	DC002	Power	Female 2 pin
	Ethernet	RJ45 socket	4 pin
	I/O	Cable	10 pin

Accessories

			Mounting screws, gasket and easy installation tool
Composite Bracket: AS-21C-AT 1 Piece	Power Cable: AS-21C-EC 1 Strip	Crystal Protective Cover : AS-21C-WJ 1 Piece	Accessories: M4x8 1 Set

	Name	Instructions
	 ERR	Work fault indicator ◆ Startup state: Light on(About 27s)Always off: No fault ◆ Always on: Internal fault ◆ Always on: Internal fault, Abnormal measurement ◆ Long flicker (0.25Hz) : High /low temperature alarm ◆ Short flicker(1Hz) : Transmissive cover is dirty/occluded¹
	 HTR	Work status indicator ◆ Startup state: Off ◆ Off: The device does not start measuring/ready to restart ◆ Always on: Equipment normal measurement ◆ Flash1 (0.5Hz) : Monitor Signal output ◆ Flash2 (1Hz) : Self-learning² ◆ Flash3 (2.5Hz) : Ready to start self-learning²
	 SLR	Operation button ◆ short press (1s~5s) Start background self-learning ◆ Long press(≥ 6s) : Delete background

1: Including being blocked by dense fog or the detection area being blocked.

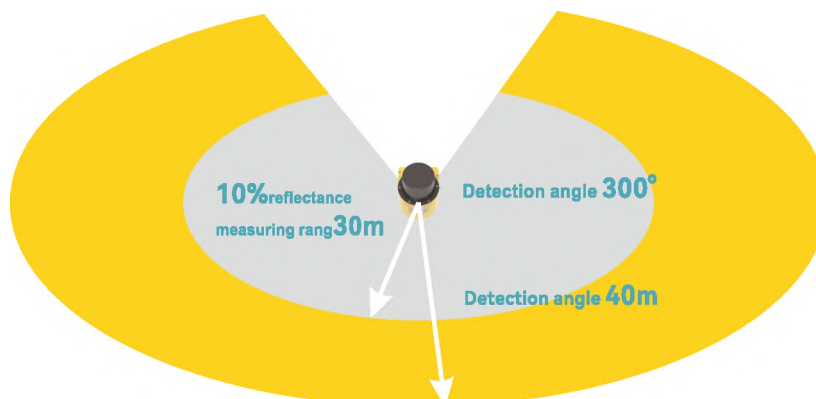
2: Including "background self-learning" and "normal goal self-learning"(customized function).

Measuring coordinate system/scan range/range

AS-21C



AS-41C



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