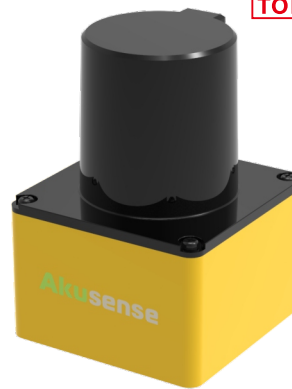


TOF Principle



Appearance		
Light source	Infrared Laser(905nm)	
Laser safety level	Class 1 (Eye-safe IEC)	
Light spot size	7*3mm	
Spot scanning angle	5.2*9mrad	
Scanning angle range	270°	
Sampling frequency	30KHz	
Scanning frequency	10Hz/15Hz/20Hz/25Hz/30Hz	
Scanning angle resolution	0.12° /0.18° /0.23° /0.35°	
Measuring range (70%reflectivity range)	0.1m ~20m	
Measuring range (10%reflectivity range)	0.1m – 10m	
Function	Navigation	
Operating environment	Indoor	
Measurement error	Resolution	1cm
	Linearity	2cm
Linearity	YES	
Abnormal Alarming	YES	
Communication	Ethernet/RS485	
Operating voltage	DC12V	
Power consumption	5W	
Degree of protection	IP65(GB4208~2008)	
Weight	0.25kg	
Dimension (L*W*H)	60 × 60 × 84.9(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
Insulation resistance	100MΩ, based on megger 500V DC	
Surge resistance	Power supply 1KV	
Impact resistance	10 to 150Hz, 1.5mm double amplitude for 2 hours each in X, Y and Z directions	
Vibration resistance	500m/s(about 50G), 3 times each in X, Y and Z directions	
Storage humidity	93%, +40℃, 2h (GB/T2423.3)	
Operating temperature	-20℃~60℃	
Storage temperature	-20℃~70℃	
Ambient illuminance	80,000Lux	
Model No.	AS-31C	

LiDAR Scanner

Specification

Unit:mm

Displacement

