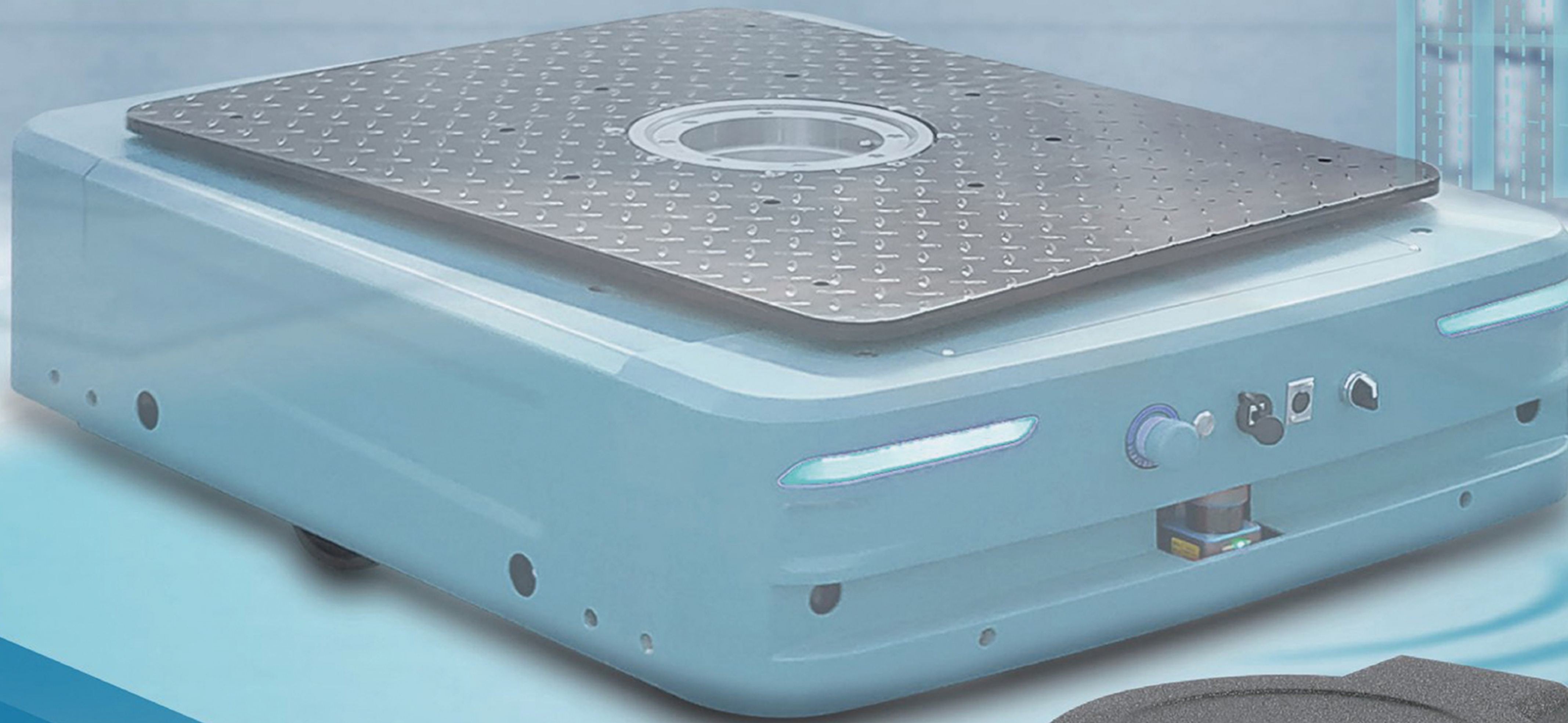


# 2D 270° Data I/O Dual Output LR-1BS5-V2 Mini LiDAR Sensor



- Suitable for SLAM navigation and point cloud obstacle avoidance strategies
- User-settable weak signal threshold strength adjustment to cope with different usage scenarios
- Built-in multi-level filtering algorithm, customers can set as needed to deal with tailing problems
- Fixed 0.225° angle resolution
- Horizontal plane error of  $\pm 1^\circ$  to ensure horizontal scanning distance
- Maximum point cloud density is 40k/s: Provide azimuth, distance, reflection intensity and other data
- Certification: FCC, EMC, CE, RoHS, REACH , FDA
- Protection Level: IP65 or Optional



Robotics



Security



Industrial



Intelligent  
logistics



# 2D 270° Data Output LR-1BS5 Mini LiDAR Sensor

## Specification table

Item	Unit	Specification
Laser wavelength	nm	905±20
Laser safety level		Class 1 (IEC 60825-1:2014)
Laser channels		1
Field of view((horizontal)	°	270
Beam divergence	mrad	longitudinal 5.8 mrad transversal 0.58 mrad
Angle resolution (horizontal)	°	0.225
Scanning frequency	Hz	10~25
Working distance (based on reflectivity)	m	0.2~2m@4% reflectivity 0.2~8m@10% reflectivity 0.2~25m@80%reflectivity 0.2~25m@reflector
Distance resolution	ms	1
Signal strength		0-60000
Accuracy (1)	mm	Absolute Accuracy : Common targets: <±20mm Absolute Accuracy : Reflector: <±40mm Repeat accuracy : <20mm
Ethernet connection		100Mbps Ethernet
Scanning rate	pts	16K~40K
Connection		5Pin, M8x1, Female, 2m (POWER) 4Pin, M8x1, Female, 2m (LAN)
Horizontal error (Horizontal angle)	°	±1
Response time	ms	130ms@10Hz
Number of bank fields		16 Bank, 3 levels/bank
Switching inputs	ea	4
Switching outputs	ea	4
Mechanical dimensions	mm	≤60*60*85
Operating voltage	VDC	12~24
Power consumption@25℃	w	5
Weight	g	450
Degree of protection		IP65 or Optional
Operating temperature	℃	-10~+50
Storage temperature	℃	-30~+70
Indicator status		RGB*4
Mounting		Bottom/Back
Ambient light limit	LUX	<80000
EMC		IEC 61000-6-2:2016-08 / IEC 61000-6-3:2006-07
Vibration resistance		IEC 60068-2-6:2007
Shock resistance		IEC 60068-2-27:2008
Function software		Oforge
Basic software		OLAMViewer ROS driver

(1) Standard value: Actual value depends on environmental conditions

## Outline and mounting

