## RPLiDAR S2L 360 Degree Laser Range Scanner - 18M Range



## **Feature**

- **360 Degree DToF Laser Ranging Scanner:** Generate 2D point cloud map information up to 18m radius, within 30mm precision
- **Stunning Sampling Capability:** Up to 32KHz measurement frequency, 10Hz rotational speed, resist up to 80000 lux light
- **Prolong Operation Life:** Apply OPTMAG light magnetic fusion technology for support up to five years of reliable running
- **Suitable for Anywhere:** IP65 high ingress protection, small and compact, capable of every indoor and outdoor deployment
- Certified Output Laser Power: Safe as IEC-60825 Class One eye safety rating

RPLIDAR Model	S2M1	S2L	<u>S2E</u>
Recommended applications	Commercial robot,	Commercial robot,	Commercial robot,
аррисацопз	Outdoor robot	Outdoor robot	Outdoor robot

Measuring Range	0.05m - 30m	0.05m - 18m	0.05m - 30m
Sampling Frequency	32K	32K	32K
Rotational Speed	10Hz	10Hz	10Hz
Angular Resolution	0.12°	0.12°	0.12°
OPTMAG Supported	√	$\checkmark$	$\checkmark$
Motor	Brushless	Brushless	Brushless
Motor Driving Supported	√	√	√
Dimensions	77 x 77 x 38.5 mm	77 x 77 x 38.5 mm	77 x 77 x 38.5 mm
Weight	190g	190g	190g
Connect	TTL UART Serial (3.3 voltage level)	TTL UART Serial (3.3 voltage level)	Ethernet UDP
System Voltage	5V	5V	12V
System Current	400mA	400mA	200mA
Power Consumption	> 2W	> 2W	> 2W
Temperature Range	-10℃ - 50℃	-10℃ - 50℃	-10℃ - 50℃
Angular Range	360°	360°	360°
Scan Field Flatness	±1.5°	±1.5°	±1.5°

Range Resolution	13mm	13mm	13mm
Accuracy	≤30mm	≤30mcm	≤30mm
Part List			
RPLiDAR S2L 360 Degree Laser Range Scanner		x1	
USB adapter		x1	
Micro-USB cable		x1	

**x**1

Power cable