

RPLiDAR A2M12 360 Degree Laser Scanner Kit - 12M Range



Features

- **360 Degree Triangulation Laser Sensor Ranging Scanner:** Generate 2D point cloud map information for 12m radius, 0.225° angular resolution
- **Distinguished Sampling Capability:** Equip high-speed RPVision3.0 range engine, for up to 16KHz measurement frequency, 5 ~ 15Hz adjustable rotational speed
- **Prolong Operation Life:** Apply OPTMAG light magnetic fusion technology for support up to five years of reliable running
- **Certified Output Laser Power:** Safe as IEC-60825 Class One eye safety rating
- **Cup-size Design:** Light & portable, 4cm ultra-thin shell, even can be placed on floor mopping robot

Item

Measurement Performance

Distance
Range

Measurement
Resolution

Angular
Resolution

Sample
Rate

Working
Environment

<u>RPLIDAR A1M8-R6</u>	0.15m – 12m	< 0.5 mm ----- <1% of actual distance *	≤1°	2000-8000 Hz	Indoor
<u>RPLIDAR A2M8</u>	0.15m – 12m	<0.5 mm ----- <1% of actual distance *	≤0.9°	2000-8000 Hz	Indoor
<u>RPLiDAR A2M12</u>	0.2m-12m	<0.5 mm ----- <1% of actual distance *	0.225°	16 kHz	Indoor
<u>RPLIDAR A3M1</u>	White objects: 25 m ----- Black objects: 10 m		0.225°	16 kHz or 10 kHz	Indoor & Outdoor
<u>RPLIDAR S1</u>	White Objects: 40m ----- Black Objects: 10m	3cm	0.313°-0.587°	9200 Hz	Indoor& Outdoor
<u>RPLIDAR S2</u>	White Objects: 30m ----- Black Objects: 10m	5cm	0.12°	32 kHz	Indoor& Outdoor
<u>SLAMTEC MAPPER M1M1</u>	20m	5cm		7000 Hz	Indoor & Outdoor

SLAMTEC
MAPPER
M2M1 Pro

40m

5cm

9200Hz

Indoor &
Outdoor

Specification

Dimensions 76mm x76mm x41mm

Weight G.W 190g

Battery Exclude

Distance Range 0.2 - 12m, Based on white objects with 70% reflectivity

Angular Range 0-360 Degree

Distance Resolution <0.5mm

Angular Resolution 0.225 degree

Sample Duration 0.25ms

Sample Frequency 16000Hz

Scan Rate 5~15Hz, Typical 10Hz

Part List

A2M12 RPLIDA 1
R (PWM motor driver embedded)

USB Cable 1

DC Cable	1
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Adapter Driver Board	1
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