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RPLIDAR S1-360 Degree TOF Laser Scanner-40M Range

SKU:DFR0616 Brand:SLAMTEC Reward Points: 6490

* Model: A1M8 | A2M6 | A2M8 | A3 | S1

Quantity: - +

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Frequently Bought Together

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Total amount:

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INTRODUCTION

Portable TOF Laser Range Scanner

TOF, 40m Ranging Radius, Outdoor Available, Enclosed Cover, Lightweight

TOF Ranging Method

RPLIDAR S1 adopts TOF(Time of Flight) ranging technology, which guarantees the ranging resolution not changing with distance. Even within a longer distance, the ranging resolution is still stable and accurate.

40 Meters Range Radius

The ranging radius of RPLIDAR S1 is up to 40 meters, which meets more application requirements in larger scenarios.

Resistance to Strong Daylight, Outdoor Available

Effectively avoiding the strong daylight interference, RPLIDAR S1 has a stable ranging and high-resolution mapping performance in outdoor environment.

Small Size, Easy Use

The first pocket TOF laser range scanner of SLAMTEC.

Ultra-thin design, compact and portable for various application requirements.

Independent Enclosed Cover

RPLIDAR S1 adopts an enclosed cover to protect its interior mechanism from external interference, which provides a stable working environment and meets the industrial application.

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Compatible with existing hardware and software interfaces of all SLAMTEC products.

360° Omnidirectional Scan

The ranging core of RPLIDAR S1 runs clockwise to perform a 360 degree

omnidirectional laser range scanning for its surrounding environment.

Stable Service Life

SLAMTEC has integrated the wireless power, optical communication, non-contact energy and signal transmission technology, to completely solve the electrical connection failure and short lifespan problem caused by the physical contact wearing out, so as to prolong the service life of RPLIDAR S1.

Laser Safety Standard

The RPLIDAR S1 adopts the low power infrared laser light as its light source, and drives it by modulated pulse. It reaches Class 1 Laser Safety Standard which can ensure its safety to human eyes.

SPECIFICATION

- Application: Scenarios Works well both in indoor and outdoor environment, reliable resistance to daylight
- Distance Range: On White Objects: 40m (White light-diffused surface) On Black Object: 10m
- Sample Rate: 9200 times per second
- Sample Frequency: Typical value: 10Hz (the frequency is adjustable within the 5-15Hz range.
- Angular Resolution: Typical value: 0.391°（the resolution is adjustable within the 0.313°-0.587° range according to the sample frequency.）
- Communication Interface: TTL UART (3.3V)
- Band Rate: 256000bps
- Distance Resolution: 3cm
- Dimension: 51mm (Height)
- Weight: 105g
- Size: 55.5mm x 55.5mm x 51mm

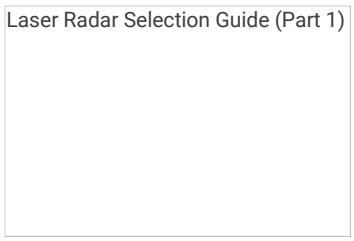
DOCUMENTS

- S1M1 Datasheet
- Application Note
- More Documents

SHIPPING LIST

- RPLIDAR S1-360 Degree TOF Laser Scanner-40M Range x1

TUTORIAL



Laser Radar Selection Guide (Part 1)

Laser Radar

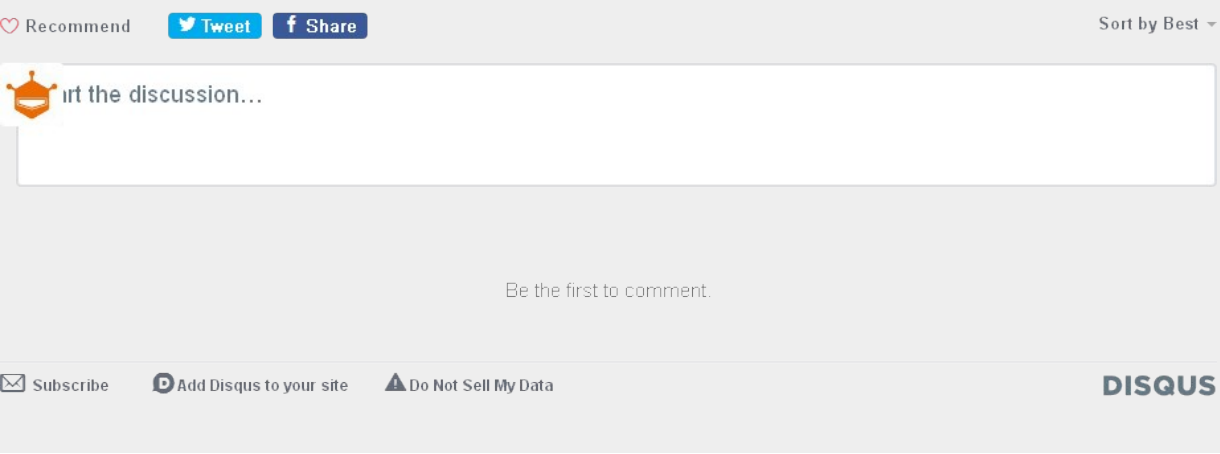
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REVIEW

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