seeed studio

INDUSTRIAL PRODUCT DATASHEET

RPLiDAR S2E 360 Degree Laser Range Scanner - 30M Range, 2D point cloud map, 80000 lux light resistance, IP65, high safety for human eye

RPLiDAR S2E: 360° DToF laser scanner with 30m range, IP65, and eye safety for robot navigation, AGV obstacle avoidance, and 3D mapping.

SKU	UPDATED	PRICE
101110082	2026-06-10 12:21:44	$469.00(Excl. VAT)



Overview



The RPLiDAR S2E is a 360-degree DToF laser range scanner that generates 2D point cloud maps up to a 30m radius with 30mm accuracy, a 32KHz sampling rate, and 80000 lux light resistance. Its IP65 protection, OPTMAG technology for five-year reliable operation, and Class 1 eye safety make it suitable for robot navigation, AGVs, and environmental perception.

Key Features

- **360 Degree DToF Laser Ranging Scanner:** Generate 2D point cloud map information up to 30m 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

Product Gallery





Applications

- **Robot navigation and obstacle avoidance**
- **Obstacle detecting and avoiding AGV**
- **Parking lot monitoring**
- **Environment perception and autonomous movement of low-speed unmanned vehicles**
- **Multi-point touching and man-machine interaction**
- **UV mapping and obstacle avoidance**
- **Environment scanning and 3D rebuilding**

Part List

RPLiDAR S2E 360 Degree Laser Range Scanner	x1
Power transfer cable	x1

Compliance & Logistics

HSCODE	9031499090
USHSCODE	9031499000
UPC	
EUHSCODE	9013101000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/RPLiDAR-S2E-360-Degree-Laser-Range-Scanner-30M-Range-p-5493.html
- Slamtec Lidar Documentation Hub

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