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INDUSTRIAL PRODUCT DATASHEET

RPLiDAR C1M1-R2 Portable ToF Laser Scanner Kit - 12M Range

The RPLiDAR C1M1 is a compact 360-degree 2D laser scanner (LIDAR) that provides 2.5D multidimensional information, including position and reflectivity data.

SKU	UPDATED	PRICE
101090061	2026-11-11 09:01:41	$69.00(Excl. VAT)



Overview



The RPLiDAR C1M1 is a compact 360-degree 2D laser scanner (LIDAR) that provides 2.5D multidimensional information, including position and reflectivity data. Its scanning frequency of 10Hz enables a sample rate of 5KHz and precise angular resolution of 0.72°. With a 12-meter measurement radius and a sampling frequency of 5000 times per second, it is suitable for robot positioning, mapping, navigation, and obstacle avoidance.

Key Features

01 **360 Degree 2D laser Scanner**

Offers 360-degree full-range laser scanning with a sampling frequency of 5000 times per second.

02 **Enhanced Perception Capabilities Beyond Flat Surfaces**

Not only captures position information data but also provides reflectivity data and 2.5D multidimensional information.

03 **Extended Measurement Range and Low Blind Range**

Has an impressive measuring distance of up to a 12-meter radius. It also boasts a remarkably low blind range of only 0.05 meters, enabling precise obstacle avoidance.

04 **Compact and Agile Design**

Its small size, low levels of noise and vibration, and versatility make it easy to integrate into a wide range of applications, offering flexibility and adaptability.

05 **Compliant with Class 1 Laser Safety Standard**

Utilizes a low-power infrared laser light source that is driven by modulated pulses. It adheres to the Class 1 Laser Safety Standard, ensuring the safety of human eyes.

Product Gallery









Resource Links

- https://www.seeedstudio.com/RPLiDAR-C1M1-R2-Portable-ToF-Laser-Scanner-Kit-12M-Range-p-5840.html
- Slamtec Lidar Documentation Hub

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