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INDUSTRIAL PRODUCT DATASHEET

# RPLiDAR A1M8-R6 360° Laser Scanner Kit - 12M Range

RPLIDAR A1 is a low cost 360-degree 2D laser scanner (LIDAR) solution developed by SLAMTEC.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 114992561 | 2026-11-11 08:36:26 | $99.00(Excl. VAT) |



# Overview




RPLIDAR A1 is a low cost 360-degree 2D laser scanner (LIDAR) solution developed by SLAMTEC. The system can perform a 360degree scan within a 6meter range. The produced 2D point cloud data can be used in mapping, localization, and object/environment modeling.

# Key Features

01 Measures distance data in more than 8000 times/s

02 360 Degree Omnidirectional Laser Range Scanning

03 8000 times sample rate, the highest in the current economical LIDAR industry

04 OPTMAG Original Design, prolong the life-span

05 Configurable Scan Rate from 2-10Hz

06 Ideal for Robot Navigation and Localization

07 Plug and Play

# Product Gallery

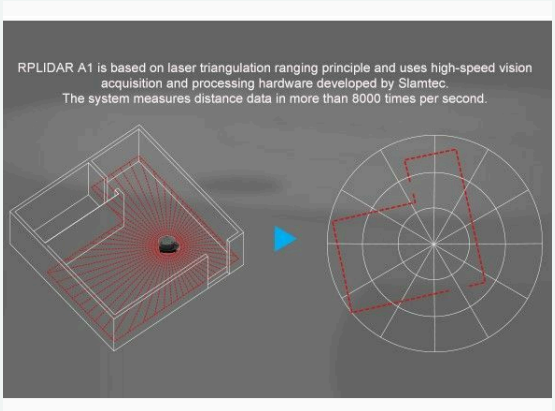




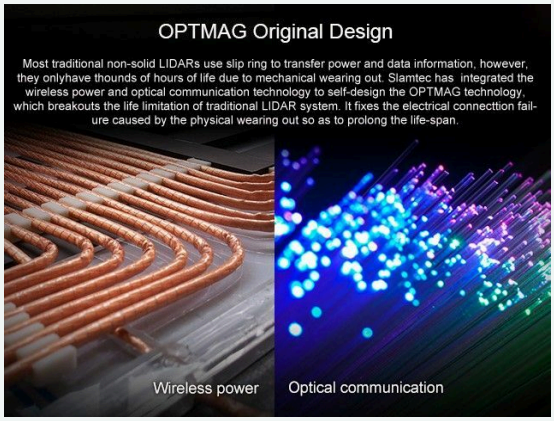


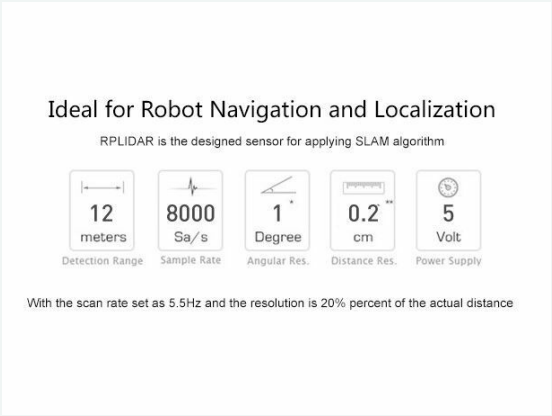













# Applications

- **Home service /cleaning robot navigation and localization**
- **General robot navigation and localization**
- **Smart toy's localization and obstacle avoidance**
- **Environment scanning and 3D re-modeling**
- **General simultaneous localization and mapping (SLAM)**

# Resource Links

- https://www.seeedstudio.com/RPLiDAR-A1M8-R6-360-Degree-Laser-Scanner-Kit-12M-Range-p-4785.html
- Slamtec Lidar Documentation Hub

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