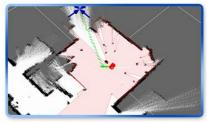
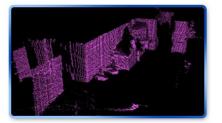


Applications



Robot Localization & Mapping (SLAM)



3D Modeling



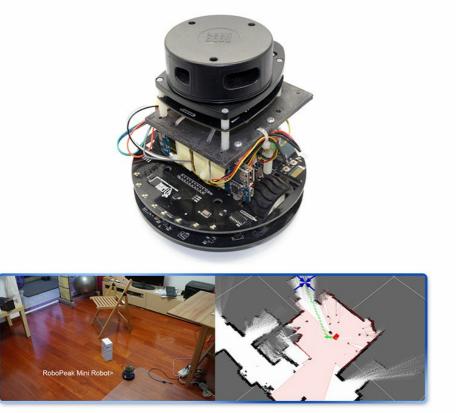
Obstacle Avoidance Safety & Security



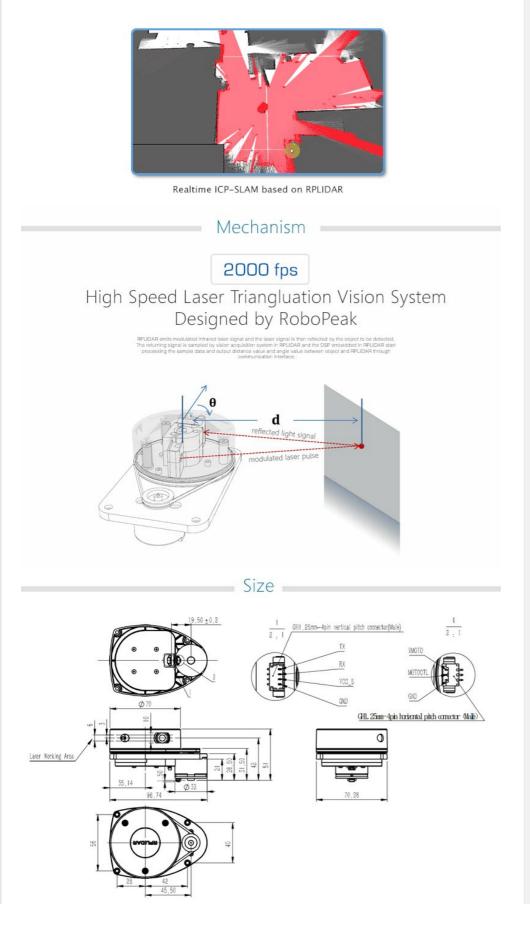
Multitouch & Human Interaction

Best Sensor for Robots

Obstacle Avoidance, Mapping, Localization, Navigation



RoboPeak Mini Robot generates the environment map and find its way to the destination using an RPLIDAR

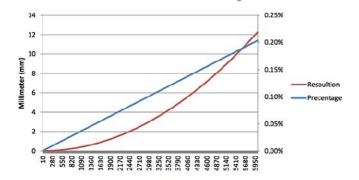


Specs

Measurement Performance

Item	Unit	Min	Typical	Max	Comments
Distance Range	Meter(m)	TBD	0.2 - 6	TBD	White objects
Angular Range	Degree	n/a	0-360	n/a	
Distance Develotion	mm	n/a	<0.5	- 1-	<1.5 meters
Distance Resolution			<1% of the distance	n/a	All distance range*
Angular Resolution	Degree	n/a	≤1	n/a	5.5Hz scan rate
Sample Duration	Millisecond(ms)	n/a	0.5	n/a	
Sample Frequency	Hz	n/a	≥2000	2010	
Scan Rate	Hz	1	5.5	10	Typical value is measured when RPLIDAR takes 350 samples per scan

*Note:triangulation range system resolution changes along with distance change, the below chart showed the theoretical resolution change of RPLIDAR:



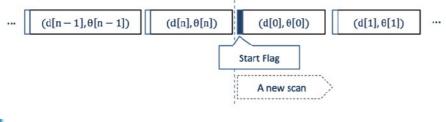
Optical

Item	Unit	Min	Typical	Max	Comments
Laser wavelength	Nanometer(nm)	775	785	795	Infrared Light Band
Laser power	Milliwatt (mW)	TBD	3	5	Peak power
Pulse length	Microsecond(us)	TBD	110	300	

Data Format

RPLIDAR outputs sampling data continuously, each sample point contains below information. Please refer to the protocol application note for details.

Data Type	Unit	Description	
Distance	mm	Current measured distance value	
Heading	degree	Current heading angle of the measurement	
Quality	level	Quality of the measurement	
Start Flag	(Boolean)	Flag of a new scan	



Interface (Development Kit)



5267-7A

Pin	Signal name	Туре	Description	Minimum	Typical	Maximum
P1	VMOTO	Power	Power supply for the RPLIDAR scan motor	-	5V	9V
P2	MOTOCTL	Input	Enable pin for RPLIDAR scan motor/PWM control signal (active high)	0V	-	VMOTO
P3	GND	Power	GND signal for RPLIDAR scan motor	-	0V	-
P4	V5.0	Power	Power supply for RPLIDAR scan core	3.6V	5V	бV
P5	TX	Output	Serial output for RPLIDAR scan core	OV	-	5V
P6	RX	Input	Serial input for RPLIDAR scan core	OV	-	5V
P7	GND	Power	GND signal for RPLIDAR scan core	-	0V	V5.0

- User manual
- Introduction and Datasheet

For any further questions and technical support, please contact RoboPeak here. **RELATED PRODUCTS**



RPLIDAR A2

Techsupport

This product is designed by Slamtec, For technical support, please contact with them via support@slamtec.com

Best-sellers









RPLIDAR A2 - The Thinest L... ESP-32S Wifi Bluetooth Co... NodeMCU v2 - Lua based E...

Technical Details

Weight	G.W 380g
Battery	Exclude
Part List	

RPLIDAR A1 (PWM motor driver embedded)	1
USB Adapter	1
RPLIDAR A1 communication cable	1

Documents

• User manual

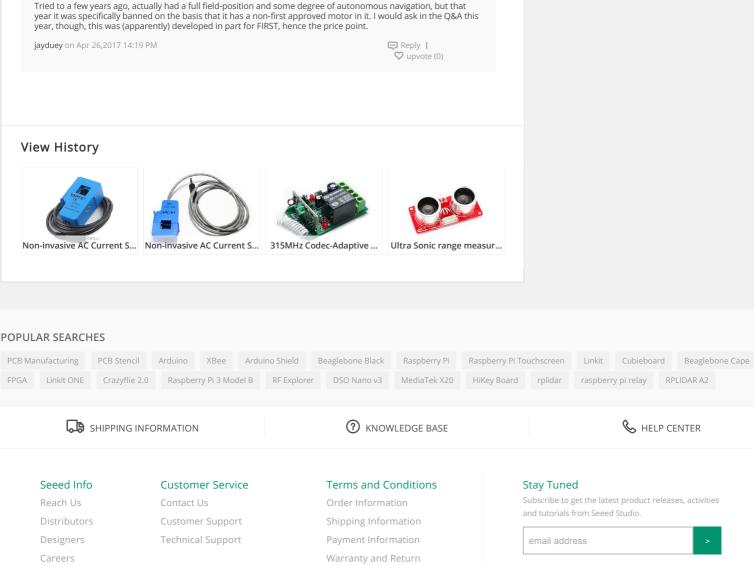
Questions and Answers

Have a question about this? Ask people who own it. 0 has anyone tryed this on a frc robot rbruneau4621 on Apr 18,2017 🖳 Reply | V upvote (0) Hello, if you need more details, please feel free to contact techsupport@seeed.cc.Thanks. Reply | V upvote (0) ae on Apr 18,2017 14:05 PM We had it setup for FTC this year and had it mapping a room and objects in the room. We didn't have time to finish it for the field but are considering it next year. We were using an STM to capture and display the data but planned on moving it to i2c so that we could process the data in the phone. We actually used an Neato sourced version of this but I'm sure it would work the same and we believe it will provide invaluable data.

Shane Hamilton on Apr 21,2017 01:22 AM

Downloaded from Arrow.com.

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