

# ROBOT SLAM

A Survey-grade SLAM Handheld

## RobotSLAM Lite

A compact unit, 1.29kg only  
Live cloud and trajectory  
Max. measuring range 70m  
One-key to color point cloud

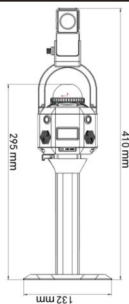




## Illustration

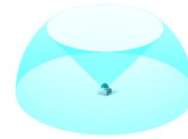
### All-in-one

Laser scanner + IMU + camera + master control + power supply all integrated into one device.



### Laser Sensor

Measuring range up to 70m, scan rate 200,000 pts/sec max., FOV 360° x 59°, anti-interference design.



### 360° Pano Camera

Dual 1-inch CMOS sensor, 6K video resolution, 21MP image resolution.



### Handgrip Battery

Magazine feeding and lever knob mechanism to well tight between handgrip and device.



### Storage & Download

512GB SSD built in, with raw data transfer rate 125 MB/s max.



### Main Control & GCP Record Buttons

Physical buttons available as well as access via APP interface, convenient in use.



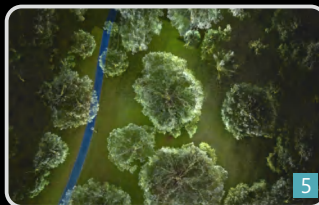
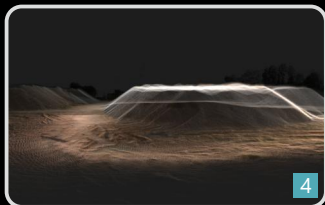
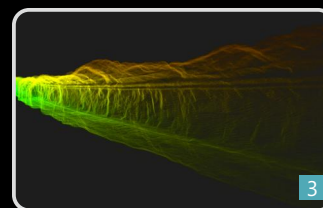
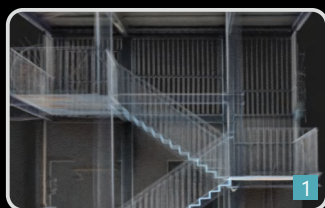
### LED Screen

Device status and commands to display, real-time and interactive.



## Applications

- 1 Building Interior
- 2 Architecture Facade
- 3 Tunnel Engineering
- 4 Stockpile Calculation
- 5 Landscape Reconstruction
- 6 Emergency Response



## Specification

Series	RobotSLAM	Dimension	180x132x312 mm (w/o camera); 180x132x386 mm (with camera)
Model	RobotSLAM Lite	Weight	1.29kg
Laser Wavelength	905 nm	Power Supply	handheld grip with inbuilt battery, cable-free connection
Laser Safety Class	CLASS 1 (IEC 60825-1:2014), eye-safe	Endurance	2~2.5 hours
FOV	horizontal 360°, vertical -7°~52°	Input Voltage	DC 9~27 V
Measuring Range	0.1~70 m (70 m @80% reflectivity; 40 m @10% reflectivity)	LED Screen	available
Measurement Rate	200,000 pts/sec	Relative Accuracy	best up to 1 cm
Scanning Rate	10 Hz	Realtime Point Cloud	available
IMU Module	built in, with push frequency 200 Hz (when enabled)	Realtime Trajectory	available
Anti-interference	available	Pano Camera	external, Pano360 II, 2-lens fisheye 360°, 21 MP in total
Temperature	-20°C~65°C (operating), -40°C~70°C (storage)	Software	RobotSLAM Palm (smartphone APP) RobotSLAM Engine (PC)
IP Protection	IP 67		