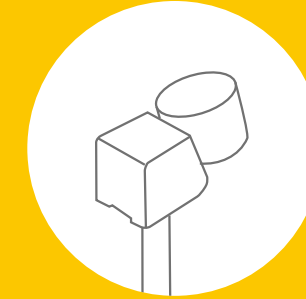


## *Survey-grade Speaks Aloud*

6



## SLAM

- 6.01 RobotSLAM
- 6.01 RobotSLAM Lite
- 6.03 Comparison
- 6.05 RobotSLAM Palm
- 6.05 RobotSLAM Engine
- 6.07 Application



## RobotSLAM Handheld 3D Laser Scanner

- Backpack 3-in-1 magic on board
- Inbuilt GNSS for direct geo-referencing
- Multiple platform suites to meet diverse needs
- Intuitive LED screen, independent to APP control in use
- 2 storage modes and 2 download methods available



Handheld

ready to work in indoor, outdoor and underground environments



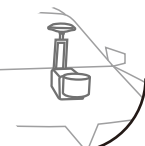
USV-based

to scan shoreline and integrate with underwater topography



Backpack

easy to carry and well fits long-time working indoors and outdoors



SUV-based

mounted onto a car for entry-level automobile mapping



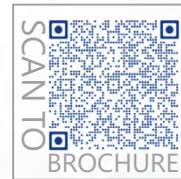
AI Robot Dog

wireless remote scanning of potentially hazardous zones



UAV-based

aerial perspective to scan building top which handheld mode cannot



## RobotSLAM Lite Handheld 3D Laser Scanner

- 1.3 kg only, more portable in use
- Cable free operation with battery-built-in grip handle
- Fixed scanner acquisition, suited to indoor confined spaces
- LED on board for intuitive fieldwork control
- Live point cloud comes with APP RobotSLAM Palm





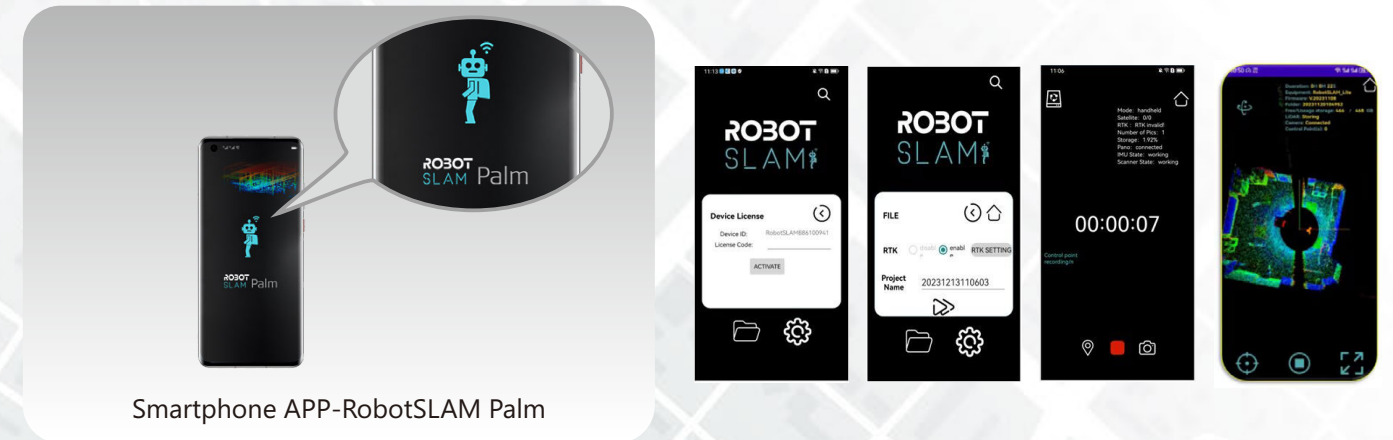
Comparison

Model		RobotSLAM Standard	RobotSLAM Professional	RobotSLAM Plus Standard	RobotSLAM Plus Professional	RobotSLAM Lite
Rotatable Scanner		√	√	√	√	×
Key Specification	Laser Channel	16	16	32	32	--
	Scan Rate	320,000 pts/sec	320,000 pts/sec	640,000 pts/sec	640,000 pts/sec	200,000 pts/sec
	Measuring Range	120 m	120 m	120 m	120 m	70 m
	FOV	360°x285°	360°x285°	360°x285°	360°x285°	360°x59°
	LED Screen	√	√	√	√	√
	Inbuilt RTK	√	√	√	√	×
Working Mode	Handheld	√	√	√	√	√
	Backpack 3-in-1	option	√	option	√	×
	Other Platforms	SUV/USV/UAV/AI Robot Dog, optional				×
Storage	Inbuilt SSD	512 GB	512 GB	512 GB	512 GB	512 GB
	Removable SD Card	128 GB	128 GB	128 GB	128 GB	×
Download	Ethernet Cable	√	√	√	√	√
	SD Card Copy	√	√	√	√	×



## RobotSLAM Palm Smartphone APP

- Fieldwork setting and control
- Live cloud and realtime trajectory display
- Task timer and device status display
- Device license update



## RobotSLAM Engine Post-process Software

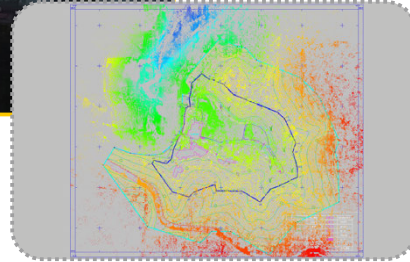
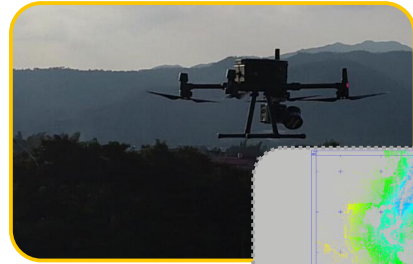
- Multi-task registration
- Coordinate system transformation
- Enable RTK for adjustment
- Loop closure review and processing replay
- Accuracy verification and control report



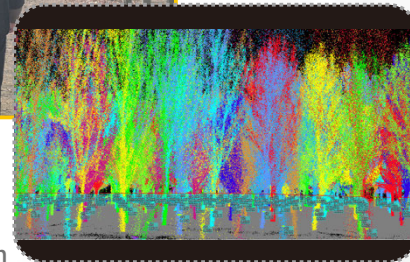


# Applications

## Topography & Mapping

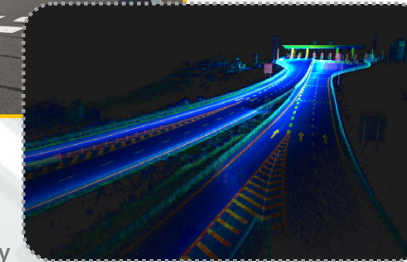
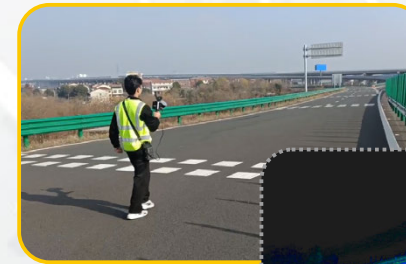


Topography Survey  
RobotSLAM in UAV-based mode, China



Forestry Investigation  
RobotSLAM in backpack mode, China

## Civil Engineering

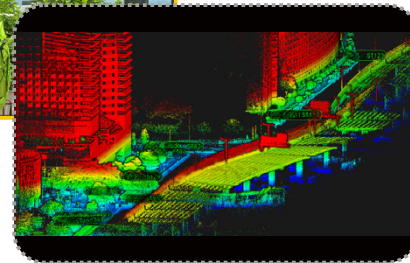
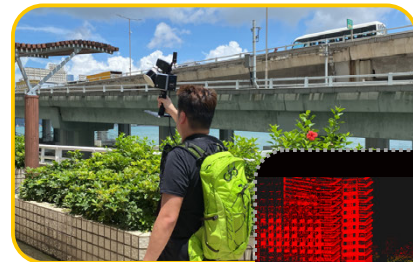


Road As-built Survey  
RobotSLAM in handheld mode, China

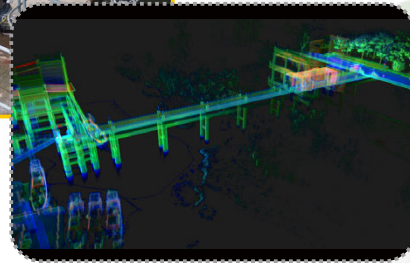


Building As-built Survey  
RobotSLAM in handheld mode, China

## Smart City

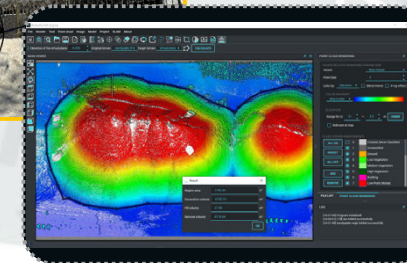


Urban Landscape  
RobotSLAM in handheld mode, Hong Kong



Shoreside Scan  
RobotSLAM in USV-based mode, China

## Mining



Stockpile Volume Calculation  
RobotSLAM in handheld mode, Russia

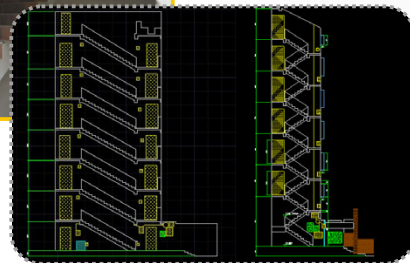


Tunnel Surveying  
RobotSLAM in handheld mode, China

## BIM Data Capture

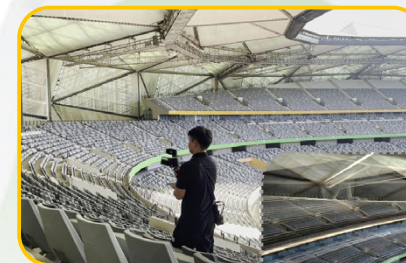


Rapid Scan for Renovation  
RobotSLAM in handheld mode + UAV-based LiDAR, China

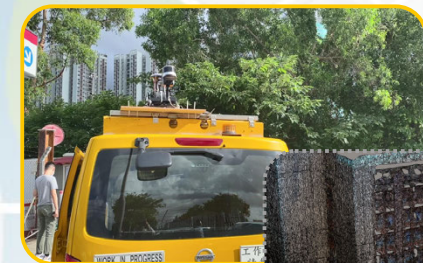


Building Elevational Surveying  
RobotSLAM in handheld mode, China

## Digital Twin



Large Complex E-documentation  
RobotSLAM in handheld mode, China



Road Inventory E-documentation  
RobotSLAM in SUV-based mode, Hong Kong