

Handheld SLAM LiDAR



FEATURES

rotatable/fixed/dual scanner available

The fixed-type VS model helps to conduct stable scanning while the rotatable or dual scanner allows bigger field of view and point density in actual operation. Select the best that fits your job after evaluating the target environments.

RTD process to enable SLAM in real time

The smart algorithm with RTD computation will get you amazing SLAM results in real time and unbeatable work efficiency. When scanning is completed, you may go straight to point cloud export instead of waiting for post processing.

attractive site display on the move

There's nothing better than showing the accomplishment on site, especially when you are on the move during scanning. The inbuilt LED screen or APP in smartphone will present the results and help to find out the missed portions promptly.

relative accuracy control best to millimeter

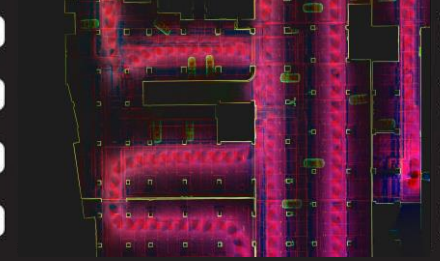
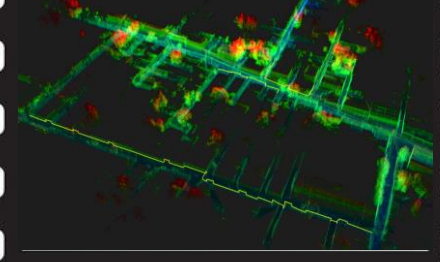
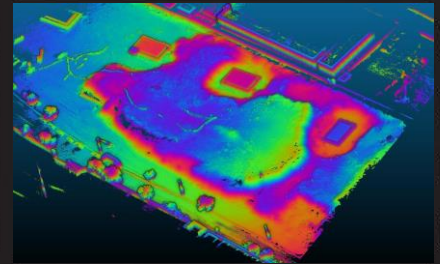
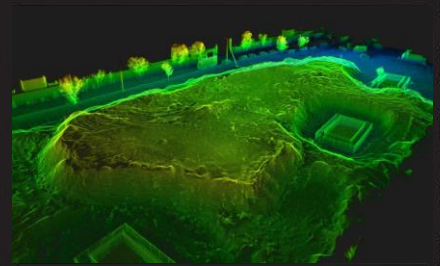
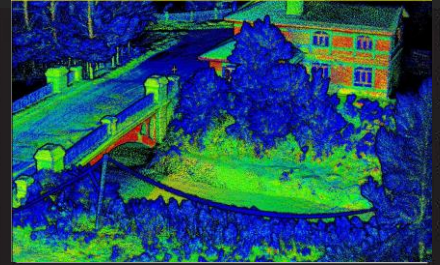
Accuracy is always the priority in surveying. And this solution enjoys highly accurate point cloud with relative accuracy at approx. 10 mm or even 7 mm, which could definitely satisfy most of the job requirements in practice.

extended-ranging against low reflection

Low reflective objects are indeed not friendly to scanning in actual use. This cost-effective product features a powerful extended-ranging capability against weak reflection, which makes it a reliable partner for the users.

seamlessly switchable in different spaces

Independent to GPS signals, SLAM technology just enables you to switch from outdoor to indoor freely. Still, it's ready to work with additional carrier platforms such as backpack, drone (DJI M300) and automobile by fitting optional suites.





Model: VS100

- not rotatable
- inbuilt LED screen



Model: DS100

- dual scanner
- inbuilt LED screen



Model: RS100S

- rotatable scanner
- smartphone display

SPECIFICATION

Model	Number of Scanner	Scanner Mode	Laser Channel	Scan Rate	FOV	Relative Accuracy	Weight (handheld)	Battery Endurance	Realtime Display
VS100	1	non-rotatable	32	650,000 pts/sec	360° x 45°	0.7-2 cm (best @ 50 m)	0.9 kg	5 hrs (with 2 battery), hot swappable	inbuilt touch screen
DS100	2	non-rotatable	32	1,300,000 pts/sec	360° x 360°	0.7-2 cm (best @ 50 m)	1.6 kg	4 hrs (with 2 battery), hot swappable	inbuilt touch screen
RS100S	1	rotatable	16	320,000 pts/sec	360° x 285°	up to 1 cm	1.6 kg	4 hrs (with 2 battery), hot swappable	smartphone APP

Model	Scan Range	Laser Type	Material	Data Storage	Data Process	Operating Temperature	Ingress Protection Rating
VS100	max. 120 m	Class 1 (IEC 60825-1:2014)	aviation-grade aluminum alloy, protective, weather-proof and anti-interference	SSD 1 TB on board, and supports extendable memory	RTD, or post processing	-40 ~ +60 °C	IP 45
DS100							
RS100S							

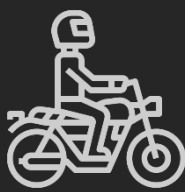
standard handheld modes



on foot, regular



by bicycle, faster



by motorbike, efficient

other extended modes



backpack



UAV-based



SUV-based

backpack

UAV-based

SUV-based

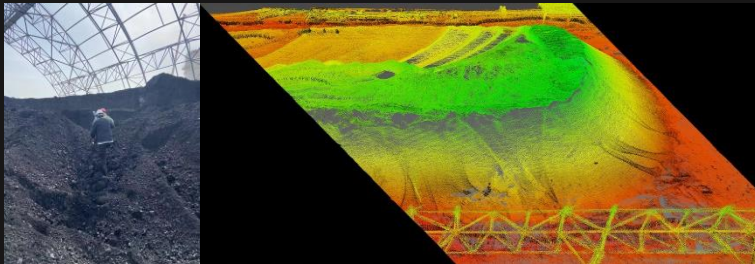




APPLICATIONS

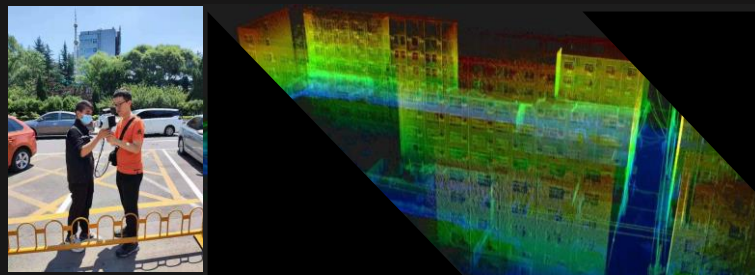
Stockpile Volume Measurement

This handy tool would be ideal for volume calculation of stockpiles like coal, mine, material, foodstuff, etc. and you may obtain the results for what you have scanned in no time.



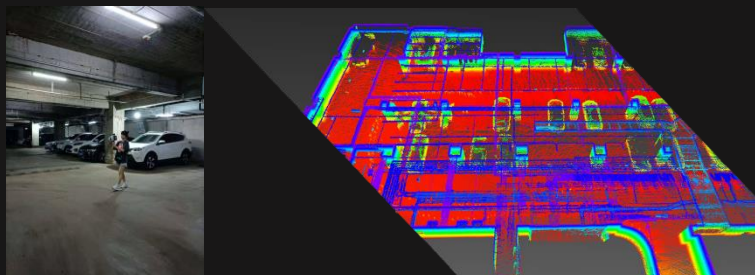
BIM Data Acquisition

High point density could be made via portable scanning to create 3D models for the architectures like modern buildings, rural villas, ancient heritages, façade structures, etc.



Underground/Indoor Digitization

In the underground and indoor environments, bright or dark, this device may help much to capture high quality point cloud for car parks, airports, shopping malls, factory plants, mine tunnels, etc..



Complex Structure Reconstruction

High vegetational cover and irregular structures are always not friendly to laser scanning. The flexible handheld using SLAM might be a quick solution to crop investigation, forest research and geological sampling.

