



SLAM Handheld





Features

- Enjoys lightweight as well as sweet spot in scan range 100m
- Super-wide FOV 360°x130° to bring larger coverage
- 2 nos. 12MP HD camera lens standby for photorealistic colorization
- Powerful algorithm to enable high-quality reality capture and digital reconstruction
- Abundant software kits available from pre-process to industrial applications



Specification



Scan Range	0.1-40m @10% reflectivity; 0.1-100m @90% reflectivity	Geo-referencing	Control points establishment for localization
FOV	360°(H.)x130°(V.) optimized for data redundancy	Power Supply	Handgrip battery, 3,150mAh, 45.36Wh
Scanner Sensor	Mixed solid-state laser with stable internal structure	Power Consumption	23W
Mapping Method	SLAM, with realtime point cloud display	Endurance	150 min
Process Mode	Realtime and post-process both	Data Management	TF card and Type-C
Scan Rate	200,000 pts/sec (equivalent to 1.2 million pts/sec resulted from non-repetitive scanning and exclusive vari-frequency tech)	Memory Capacity	128 GB, expandable
Laser Class	Class-1 eye-safety	Ingress Protection	IP5X
Camera Lens	2x 12MP	Net Weight	1.12 kg
Fieldwork Control	MapStar	Dimension	111x222x33 mm
Data Process	AcuteLas Studio	Working Temperature	-20°C to 45°C
Accuracy Performance	≤1cm relative accuracy	Storage Temperature	-20°C to 60°C

Note:

1. Non-repetitive scanning refers to the effective global covered point clouds in the even and random mode, and the line-spacing and blind spots from the conventional fixed laser beams would not exist. Therefore, it enjoys much fewer data gaps and better data integrity even in motion.
2. Optimized FOV directly results in much less repetitive scanning and fewer data gaps. When it comes with non-repetitive scanning, the point cloud data enjoys a much smaller size and faster processing.
3. All information herewith is subject to change without any prior notice.



Applications

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

