



Handheld SLAM LiDAR

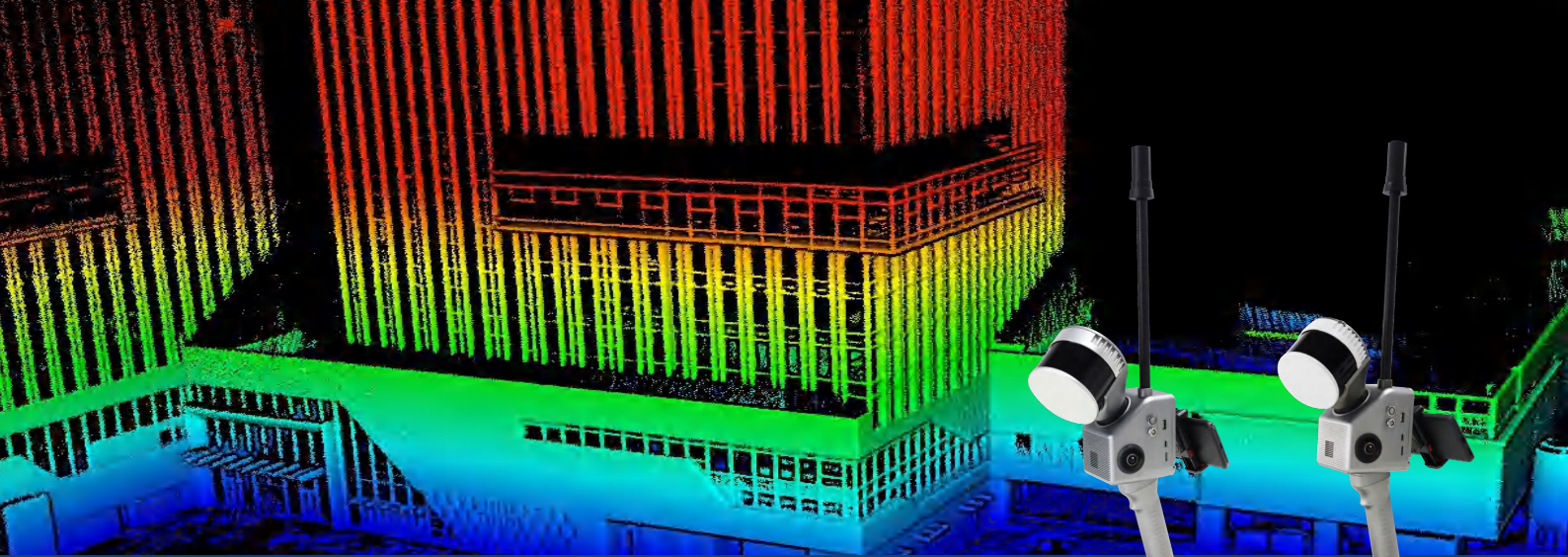
The Most Cost-effective Handheld LiDAR Solution

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ABOUT

Handheld SLAM LiDAR

GS-100G/120G/130G are handheld LiDAR scanning systems independently developed by Geosun Navigation. It adopts a simple design with a small body, to be light to carry, easy to operate, and flexible to install. With various sensors, it can quickly capture a wide range of scene data, support multi-platform and multi-mode operation, and combine GNSS, INS, LiDAR, and SLAM algorithms to achieve a seamless survey of indoor and outdoor scenes.



Centimeter-Level Precision



120m Range



Real-time preview of APP



270°x360° Field of View



Topographic
Survey



Underground
Garage



Power Line
Patrol



Mine Survey



Digital
Modeling



Stockpile
Measurement

SPECIFICATIONS

	GS-100G
General System Performance	
Absolute Accuracy	≤5cm
Battery Duration	2h
Weight	2.15kg
Data Storage	128GB
Battery Capacity	11600mAh
Power Consumption	25W
Carrying Platform	Handheld, Backpack
Operating Temperature	-20° - +55°
Voltage	12V - 18V
POS Performance	
POS Model	gSpin 210
IMU Update Rate	200Hz
GNSS System	GPS L1/L2/L5; GLONASS L1/L2; GAL E1/E5a/E5b; BDS B1c/B1/B2/B2a/B2b/B3
Position Accuracy	0.020m horizontal, 0.030m vertical
Pitch Accuracy	0.015°
Roll Accuracy	0.015°
Heading Accuracy	0.040°
Laser Scanner Performance	
Measuring Range	120m
Range Accuracy	±1.5cm
Laser Line Number	16-channel
Data	640,000 Points/Sec
Field of View (FOV)	270°/360°
Camera	
Resolution	2×20MP
Mapping	
Mapping Method	SLAM; RTK-SLAM; PPK-SLAM
Software	
PointCloudCreator	Self-developed point cloud preprocessing software
Point Cloud Automata (Optional)	World-leading point cloud classification and post processing software

Applications

