



Handheld SLAM LiDAR

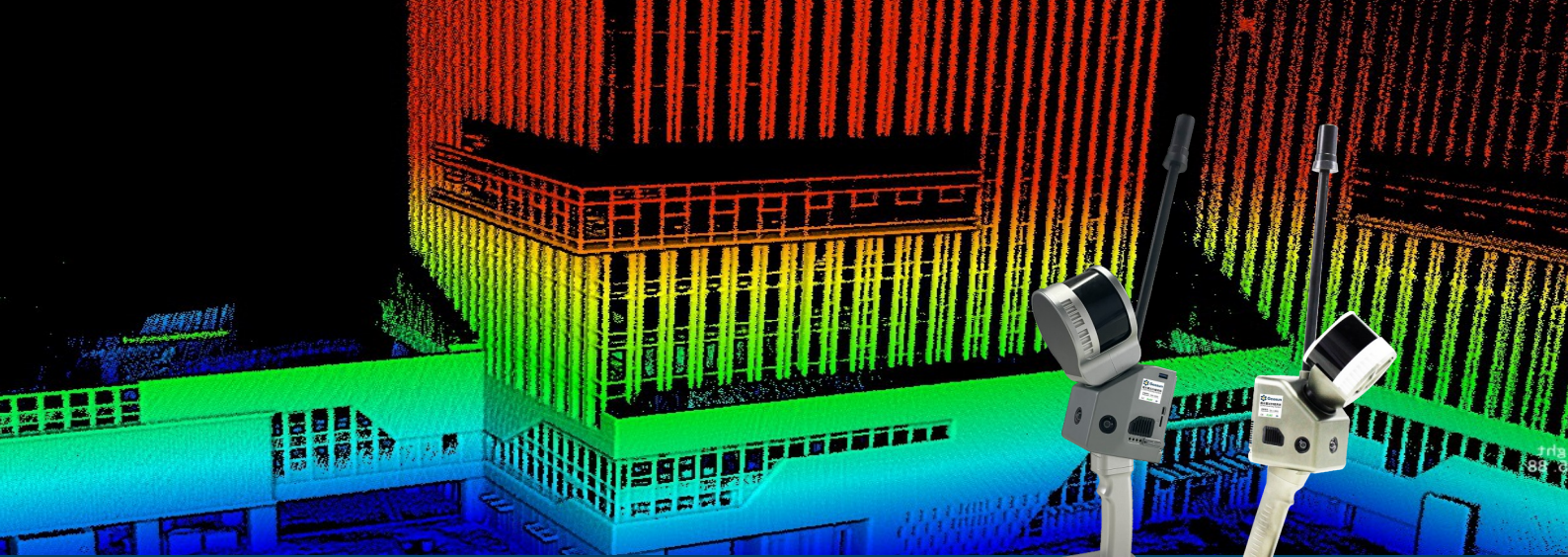
The Most Cost-effective Handheld LiDAR Solution

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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



120/300m Range



Real-time preview of APP



270°x360° Field of View



Topographic
Survey



Underground
Garage



Power Line
Patrol



Mine Survey



Digital
Modeling

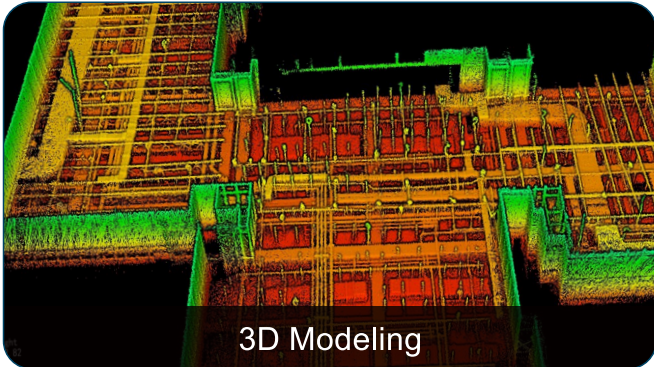


Stockpile
Measurement

SPECIFICATIONS

	GS-100G	GS-120G	GS-130G
General System Performance			
Absolute Accuracy	≤5cm	≤5cm	≤5cm
Battery Duration	2h	2h	2h
Weight	2.2kg	1.8kg	1.7kg
Data Storage	128GB	128GB	128GB
Battery Capacity	11600mAh	11600mAh	11600mAh
Power Consumption	25W	25W	25W
Carrying Platform	Handheld, Backpack	Handheld, Backpack	Handheld, Backpack
Operating Temperature	-20° - +55°	-20° - +55°	-20° - +55°
Voltage	12V - 18V	12V - 18V	12V - 18V
POS Performance			
POS Model	gSpin 210	gSpin 210	gSpin 210
IMU Update Rate	200Hz	200Hz	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	0.020m horizontal, 0.030m vertical	0.020m horizontal, 0.030m vertical
Pitch Accuracy	0.015°	0.015°	0.015°
Roll Accuracy	0.015°	0.015°	0.015°
Heading Accuracy	0.040°	0.040°	0.040°
Laser Scanner Performance			
Measuring Range	120m	120m	300m
Range Accuracy	±1.5cm	±1.5cm	±1cm
Laser Line Number	16-channel	32-channel	32-channel
Data	640,000 Points/Sec	1,280,000 Points/Sec	1,920,000 Points/Sec
Field of View (FOV)	270°/360°	270°/360°	270°/360°
Camera			
Resolution	3x5MP	2x20MP	2x20MP
Mapping			
Mapping Method	SLAM; RTK-SLAM; PPK-SLAM		
Software			
Point Cloud Automata	World-leading point cloud classification and post processing software		
Point Cloud Creator (Optional)	Self-developed point cloud preprocessing software		

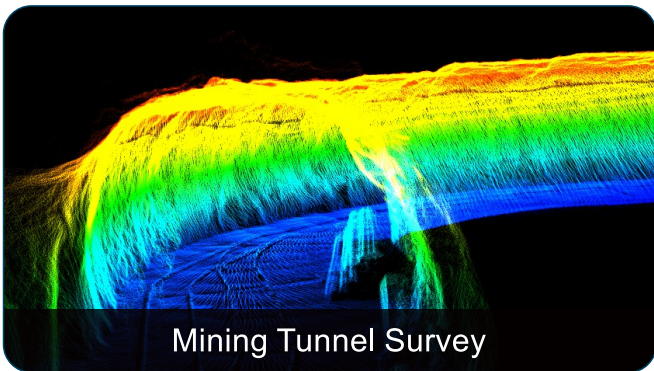
Applications



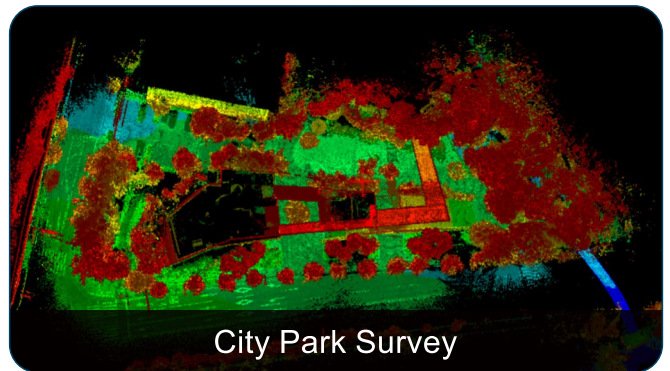
3D Modeling



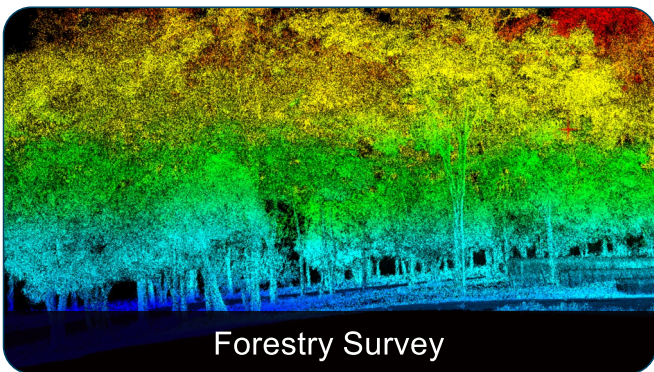
Building Surveying



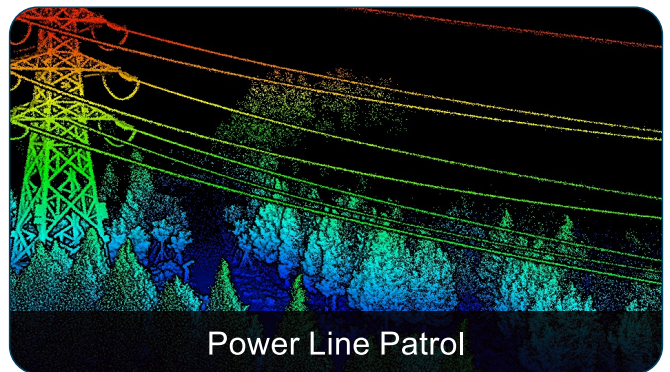
Mining Tunnel Survey



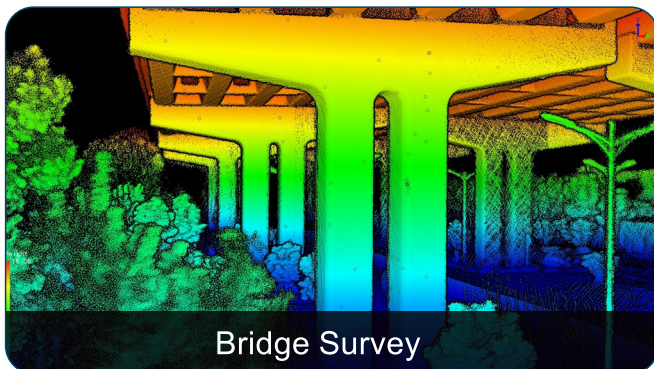
City Park Survey



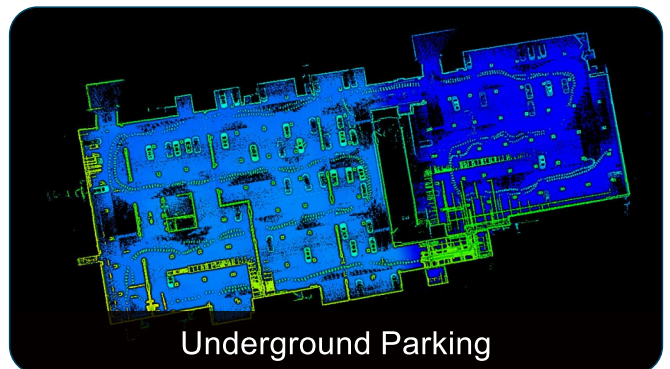
Forestry Survey



Power Line Patrol



Bridge Survey



Underground Parking