



GS-100G Pro

Handheld LiDAR Scanning System GS-100G Pro
Color Point Cloud with Highly Integrated Camera

LIDAR
Handheld

POS
Self Developed

Trajectory
One Key Solution

Camera
Built-in

Point Cloud
Color



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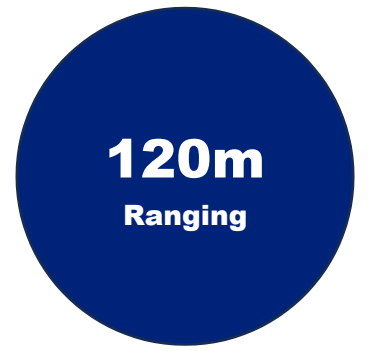
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GS-100G Pro is a kind of handheld LiDAR scanning system independently developed by Geosun Navigation.

It adopts a simple design with a small body, so as to be light to carry, easy to operate and flexible to install.

With a variety of 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 seamless survey of indoor and outdoor scenes.

System Parameter

System Parameter			
Point Cloud Accuracy point	5cm@100m without control	Voltage Range	12V-18V
Dimension	20.4*12.0*38.7cm	Weight	2.15Kg
Working Temperature	-20°C-55°C	System Consumption	25W
Carrying Platform	Handheld	Battery Parameter	4.2V 3400mAh
Storage	128GB MicroSD Card		
POS Unit			
Model	gSpin 210	Pitch Accuracy	0.015°
Update Frequency	200Hz	Heading Accuracy	0.040°
GNSS Signal Type	GPS L1/L2/L5, GLONASS L1/L2, BDS B1C/B1/B2/B2a/B2b/B3, GALELEO E1/E5b/E5a		
Position Accuracy	Horizontal 0.02m Elevation 0.03m	Roll Accuracy	0.015°
Laser Unit			
Detection Range	80m@10%, Max Range 120m	Range Accuracy	±1.5cm
Channel	16	Horizontal FOV	360°
Vertical FOV	270°	Points Rates	Single echo 320,000 Points/Sec, Dual echo 640,000 Points/Sec
Camera Parameter			
Resolution	2*20MP (Panoramic:2*13MP)	FOV	Horizontal 270° x Vertical 200°
Shooting Mode	Isochronous		

Applications

