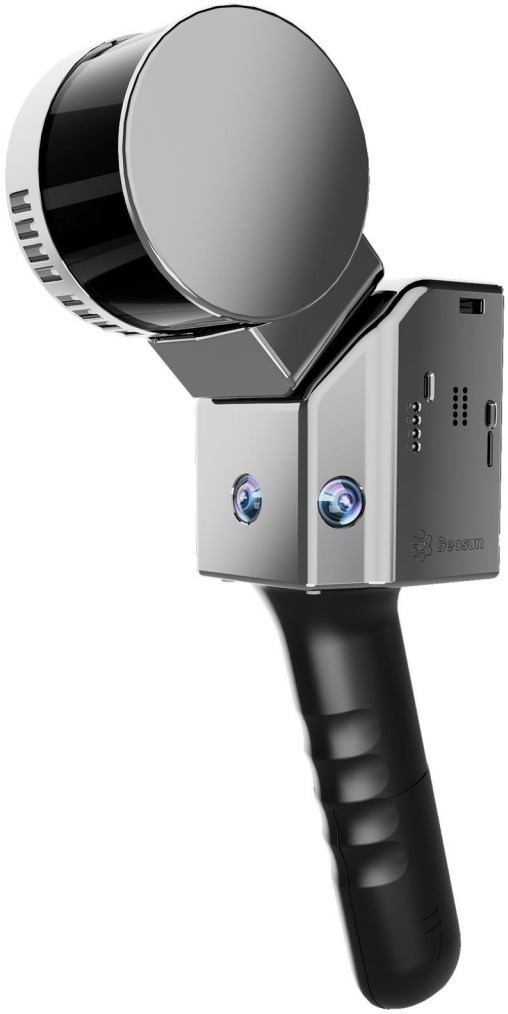
ProGeoSKY



GS-100G

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

LIDAR | Self Developed POS | Trajectory One Key Solution | Camera Built-in | Color Point Cloud

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GS-100G

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

GS-100G is a kind of handheld LiDAR scanning system independently developed by Geosun company.
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	5cm@100m without control point	Voltage Range	12V-18V
Dimension	15.3*9.3*39.4cm	Weight	1.7Kg (without battery)
Working Temperature	-20℃-55℃	System Consumption	25W
Carrying Platform	Handheld, Multi-rotor and Vehicle	Battery Parameter	4.2V 3400mAh
Storage	Built-in flash memory 64GB, Support microSD 256GB.		
POS Unit			
Model	gSpin 110	Pitch Accuracy	0.025°
Update Frequency	200Hz	Heading Accuracy	0.080°
GNSS Signal Type	GPS L1/L2/L5, GLONASS L1/L2, BDS B1C/B1/B2/B2a/B2b/B3, GALELEO E1/E5b/E5a		
Position Accuracy	Horizonal 0.02m Elevation 0.03m	Roll Accuracy	0.025°
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	3*5MP	FOV	Horizontal 270°
Shooting Mode	Isochronous		

Applications