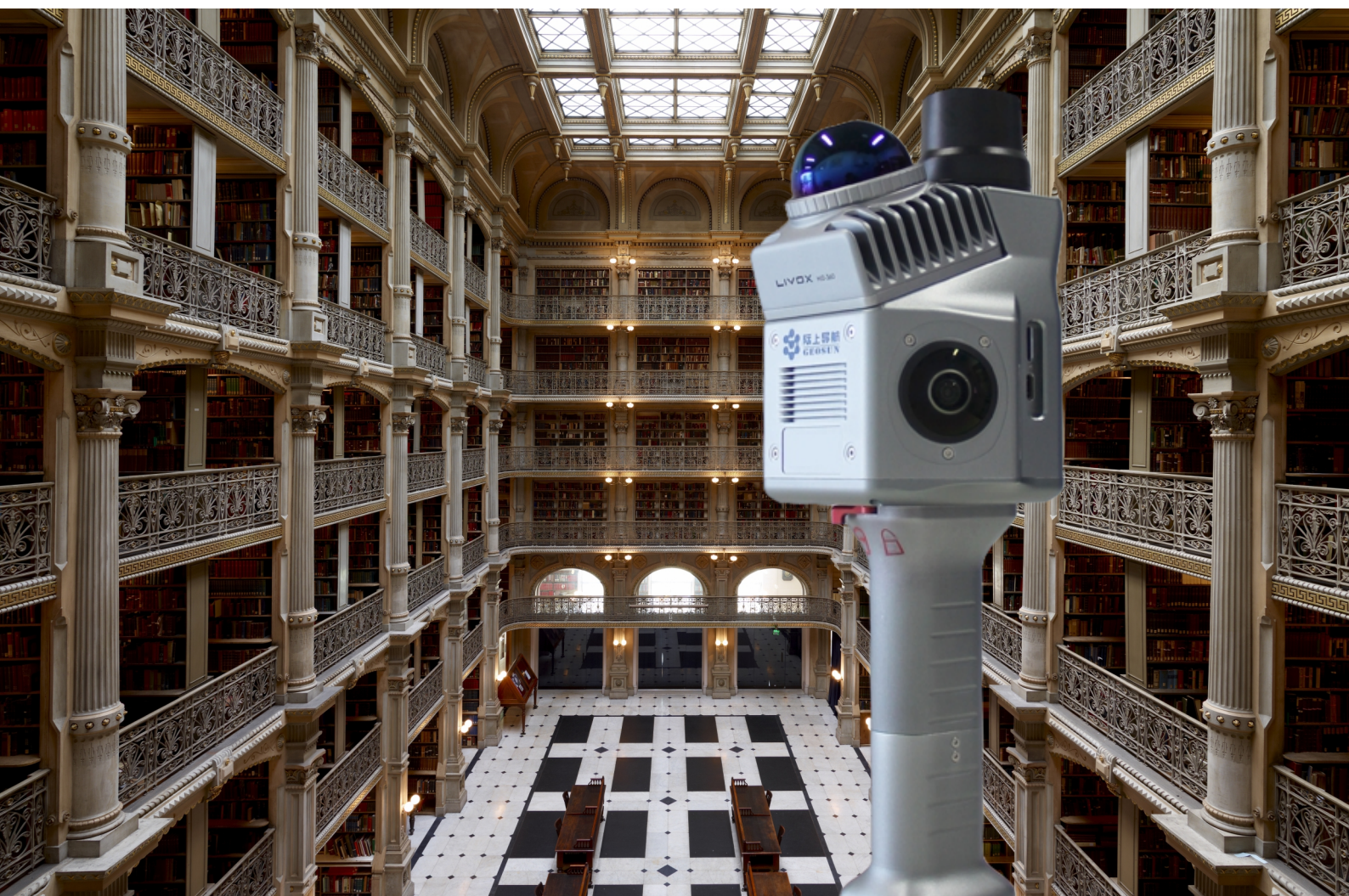




GS-200G

The Most Affordable Lightweight LiDAR System

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ABOUT

GS-200G



The GS-200G is a lightweight, high-performance handheld LiDAR system by Geosun Navigation. Featuring the Livox Mid-360 sensor and advanced SLAM algorithms, it captures precise 3D point clouds in GNSS or GNSS-denied environments. Its compact design ensures easy mobility for indoor and outdoor mapping, including urban surveys, infrastructure inspection, and digital twin modeling. Combining LiDAR, GNSS, and INS, the GS-200G delivers reliable, seamless data processing across diverse applications.



Weights only 1kg



Range 40m



Strong Penetration



High Efficiency



Topographic
Survey



Interior
Mapping



Power Line
Patrol



Mine Survey



BIM-Oriented
3D Scanning



Forestry Survey

SPECIFICATIONS

System Specs	
Accuracy	≤ 1 cm (Relative), ≤ 5 cm (Absolute)
Voltage Range	12-20V
Dimensions	16.5*12.0*32.4cm
Weight	1.0kg
Operating Temperature	-20°C-55°C
System Consumption	< 25W
Storage	128GB MicroSD Card
POS Specs	
Model	gSpin 210
POS Update Rate	200Hz
GNSS System	GPS L1/L2/L5; GLONASS L1/L2; GAL E1/E5a/E5b; BDS B1c/B1/B2/B2a/B2b/B3
Positioning Accuracy	Horizontal: ±0.02 m Vertical: ±0.03 m
GNSS Signal Types	GPS L1/L2; GLO L1/L2; GAL E1/E5b; BDS B1/B3/B2a (Supports BeiDou-only Mode)
Pitch Accuracy	0.015°
Heading Accuracy	0.040°
Roll Accuracy	0.015°
Laser Specs	
Measuring Range	40m@10%
Horizontal FOV	360°
Wavelength	905nm
Data	Single echo, 200,000Points/Sec
Range Accuracy	≤ 2cm@10m 、 ≤ 3cm@0.2m
Vertical FoV	-7°~52°
Scanning Mode	Non-repetitive Scanning
Camera Specs	
Effective Pixel	2*20MP
Scanning Mode	Time-synchronized Scanning
FOV	Horizontal/Vertical FoV: 200°
Mapping	
Mapping Mode	SLAM;RTK-SLAM;PPK-SLAM

Applications

