



际上导航
GEOSUN



Benefits and Features



1845m
Detection Range



1.5 million
points per second



360°
Field of View



45 MP
Full-Frame Camera

GS-2000R

Long-Range UAV LiDAR Solution

The GS-2000R is a high-precision airborne LiDAR system that combines a mechanical laser scanner, GNSS positioning, and INS navigation for accurate point cloud data.

It is used in surveying, land management, transportation, power, and urban planning.



Water Resource
Survey



Power Line
Patrol



Smart City
Construction



Mine Survey



Construction
Project



Topographic
Survey



+86 15527360208



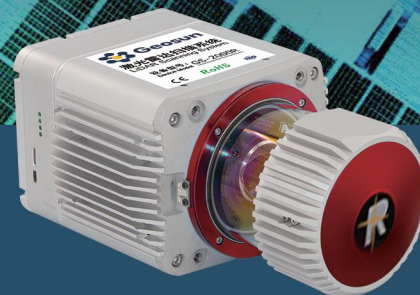
sales@geosunlidar.com



en.geosuntech.com

GS-2000R

Technical Specification



System Parameters

General System Performance

Absolute Accuracy	≤5 cm	Point Cloud Density	10pts/m ² @400m@10m/s
Weight	4.5kg	Data Storage	512G
Dimension	30.8 x 22.2 x 12.8 cm	Power Consumption	75W
Voltage	24V	Operating Temperature	-20° - +55°
Carrying Platform	Airborne/Vehicle/Shipborne		

POS Performance

Model	gSpin 410	IMU Update Rate	200 -1000 Hz
Position Accuracy	0.020m horizontal, 0.030m vertical	Pitch Accuracy	0.003°
Heading Accuracy	0.010°	Roll Accuracy	0.003°
GNSS System	GPS L1/L2/L5; GLONASS L1/L2; GAL E1/E5a/E5b; BDS B1c/B1/B2/B2a/B2b/B3		

Laser Scanner Performance

Measuring Range	Max. 1845 m	Range Accuracy	≤15mm
Laser Line Number	Single Beam	Field of View (FOV)	360°
Number of Echoes	Unlimited	Angular Resolution	0.001°
Max. Measurement Rate	1.5 million points/sec		

Camera Performance

Resolution	45MP (Full-Frame)	Focal Length	40mm
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Panoramic Camera (Optional)

Resolution	30MP (6 x 5MP)	Focal Length	4.4mm (Fixed Focus)
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Software

Point Cloud Automata	World-leading point cloud classification and post processing software
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