



际上导航
GEOSUN



<https://en.geosuntech.com/>
<https://www.geosunlidar.com/>



GS-2000N LiDAR

High-precision LiDAR for Large-scale Aerial Survey

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ABOUT

GS-2000N LiDAR Solution

The GS-2000N is a compact, long-range LiDAR system that integrates the FT-1500H laser scanner, GNSS, and IMU positioning and attitude determination systems. It enables real-time, dynamic collection of high-precision point cloud data and rich image information. This versatile system is widely used for 3D spatial information acquisition in surveying, electricity, forestry, agriculture, and land planning.



2000m Max. Range



Higher Point Cloud Density



High Precision



Efficient Coverage



Topographic
Survey



Vegetation
Monitoring



Power Line
Patrol



Mine Survey



Construction
Project

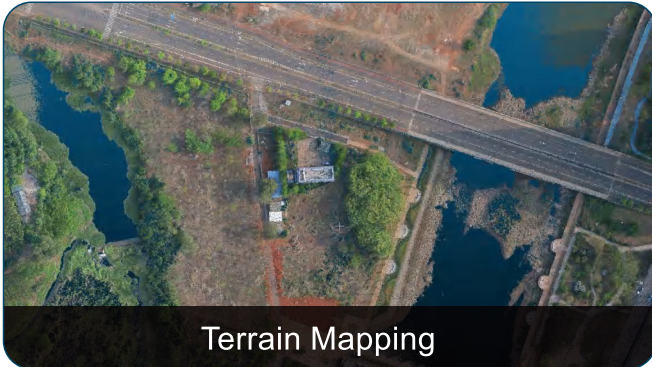


Smart City
Construction

SPECIFICATIONS

General System Performance		
Absolute Accuracy	10cm@600m	
Point Cloud Density	40pts/m² @400m@10m/s	
Weight	3.3kg	
Data Storage	256G	
Dimension	25.4 x 13.3 x 12.5 cm	
Power Consumption	70W	
Carrying Platform	Multi-rotor/VTOL	
Operating Temperature	-20° - +55°	
Voltage	24V	
POS Performance		
Model	gSpin 410	
Update Frequency	200Hz	
GNSS System	GPS L1/L2/L5; GLONASS L1/L2; GAL E1/E5a/E5b; BDS B1c/B1/B2/B2a/B2b/B3	
Position Accuracy	≤0.05m	
Pitch Accuracy	0.003°	
Roll Accuracy	0.003°	
Heading Accuracy	0.010°	
Laser Scanner Performance		
Measuring Range	Max. 2000m	
Range Accuracy	3mm@100m	
Laser Line Number	Single Beam	
Max. Measurement Rate	2,000,000 points/sec	
Number of Echoes	Seven	
Angular Resolution	0.001°	
Field of View (FOV)	75°	
Camera		
Resolution	45 MP (Full-Frame)	
Field of View (FOV)	79°	
Operation Efficiency Table		
Flight Height (m)	Density (pts/m²) @ speed 10m/s	Single Flight Operation(km²)
200	135	2.8
400	40	5.6
600	10	8.4
Software		
Point Cloud Automata	World-leading point cloud classification and post processing software	
Mission Planning Software (optional)	Customized Route Planning Software — WayPoint Master	

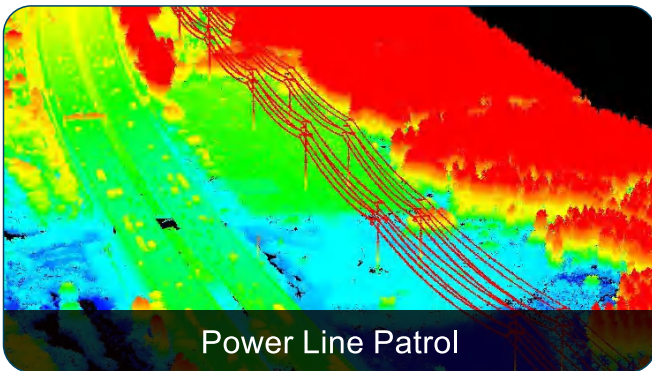
Applications



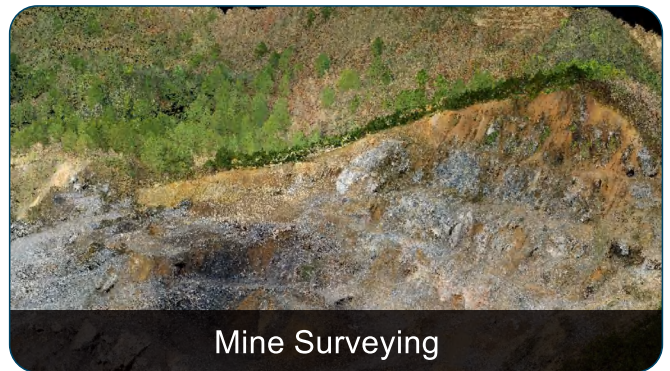
Terrain Mapping



Forestry Survey



Power Line Patrol



Mine Surveying



Highway Surveying