



# GS-2000N LiDAR

High-precision LiDAR for Large-scale Aerial Survey

**Email:**

[sales@geosunlidar.com](mailto:sales@geosunlidar.com)

**WhatsApp:**

+86 15527360208



# 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



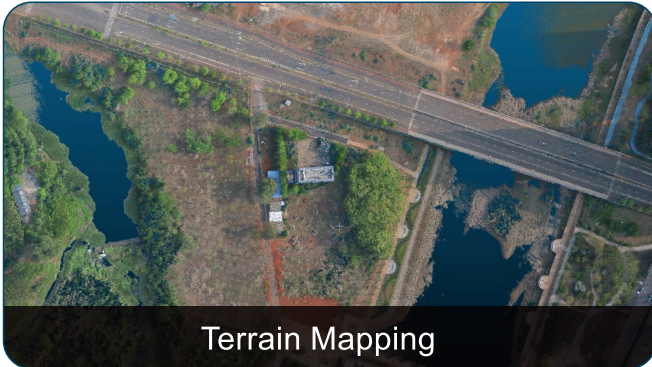
Smart City  
Construction

# 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 — WavPoint Master	



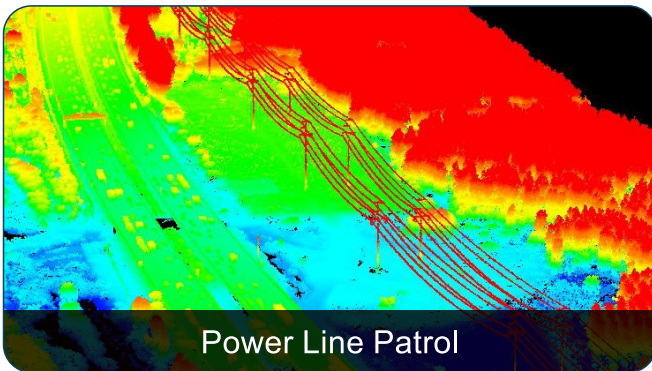
# Applications



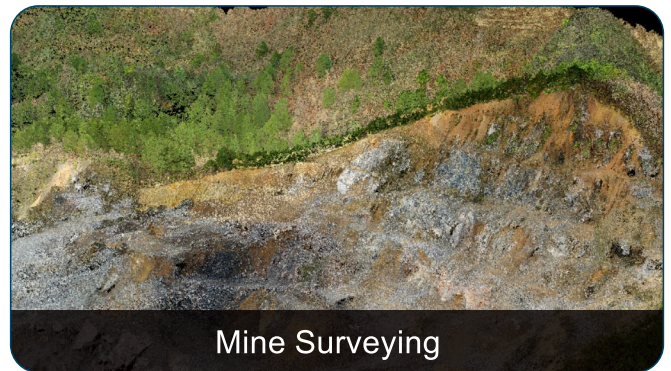
Terrain Mapping



Forestry Survey



Power Line Patrol



Mine Surveying



Highway Surveying