



GS-1500N LiDAR

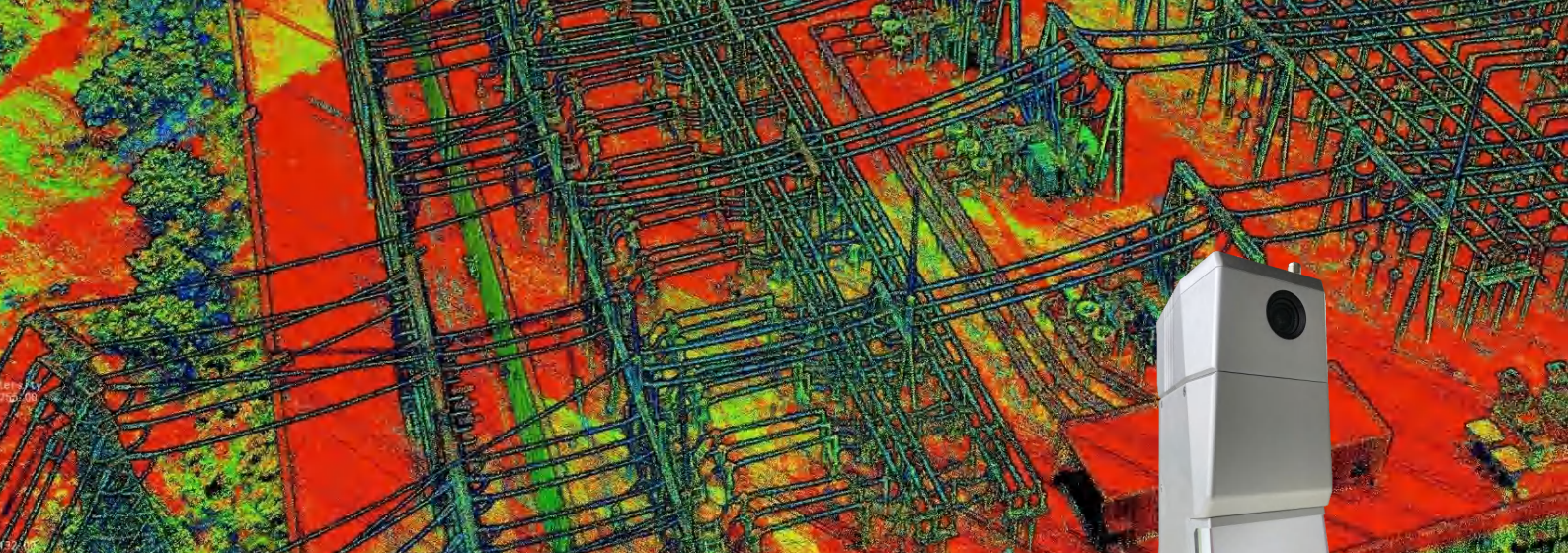
Single Beam Laser Sensor with High-end IMU

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ABOUT

GS-1500N LiDAR Solution

The GS-1500N, developed by Geosun Navigation, is an advanced 3D data acquisition system that combines long-range laser scanners, GNSS positioning, and INS navigation. It quickly captures precise point cloud data and is compact, energy-efficient, and easy to use. Ideal for applications in mapping, forestry, power line inspection, agriculture, water management, and smart city development.



1500m Max. Range



Five Echo



2.5kg Weight



High Precision



Topographic
Survey



Power Line
Patrol



Mine Survey



Construction
Project



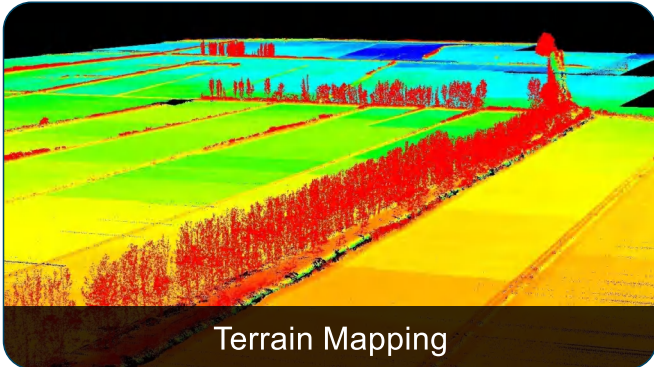
Smart City
Construction



SPECIFICATIONS

General System Performance		
Absolute Accuracy	10cm@400m	
Point Cloud Density	40pts/m²@400m@10m/s	
Weight	2.5kg	
Data Storage	64GB, max support 256GB TF card	
Dimension	23.8 x 10.2 x 13 cm	
Power Consumption	55W	
Carrying Platform	Multi-rotor/VTOL	
Operating Temperature	-20° - +55°	
Voltage	24V	
POS Performance		
Model	gSpin 410	
IMU Update Rate	200 Hz	
GNSS System	GPS L1/L2/L5; GLONASS L1/L2; GAL E1/E5a/E5b; BDS B1c/B1/B2/B2a/B2b/B3	
Position Accuracy	0.020m horizontal, 0.030m vertical	
Pitch Accuracy	0.003°	
Roll Accuracy	0.003°	
Heading Accuracy	0.010°	
Laser Scanner Performance		
Measuring Range	1500m@80%	
Range Accuracy	5mm@100m	
Laser Line Number	Single Beam	
Data	Five echo, 500,000 points/sec	
Field of View (FOV)	100°	
Full-frame Camera		
Resolution	45MP	
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
Software		
Point Cloud Automata	World-leading point cloud classification and post processing software	
Mission Planning Software (optional)	Customized Route Planning Software — WayPoint Master	

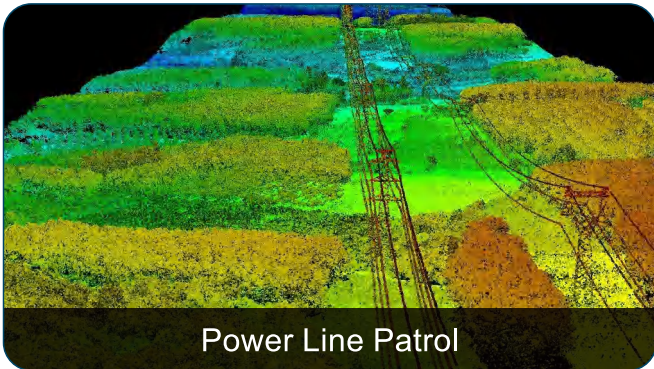
Applications



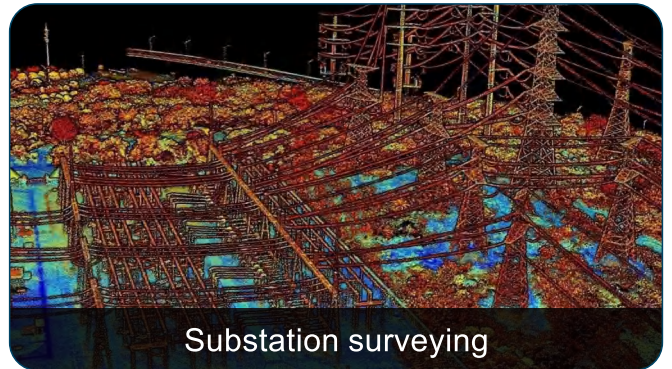
Terrain Mapping



Forestry Survey



Power Line Patrol



Substation surveying



Smart City Construction