



GS-130X LiDAR

Better Precision and Penetration

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ABOUT

GS-130X LiDAR Solution

The GS-130X, developed by Geosun Navigation, is a high-precision LiDAR system that includes a laser sensor, mapping camera, and precise POS system. It can be mounted on most drones and used for vehicle-based operations. Easy to operate, it produces true-color point cloud models and is used in mapping, forestry, power line inspections, agriculture, land management, water conservation, and smart city projects.



Multi-Platform

Compatible with vehicles and airborne for complete coverage and efficiency.



High Penetration

0.03°x0.03° beam divergence, good at dense forestry.



360° FOV

Capture comprehensive data with ease no matter the environment or angle.



1,280,000 Points/Sec

High-density point cloud, rich in point cloud information.



Topographic Survey



Vegetation Monitoring



Power Line Patrol



Mine Survey



Construction Project



Smart City Construction

SPECIFICATIONS

General System Performance		
Absolute Accuracy	10cm@100m	
Point Cloud Density	80pts/m²@100m@10m/s	
Weight	1.4kg	
Data Storage	64GB, Max support 256GB TF card	
Dimension	14.2 x 10.9 x 12 cm	
Power Consumption	20W	
Carrying Platform	Multi-Rotor/VTOL/Vehicle	
Operating Temperature	-20° - +55°	
Voltage	12V - 24V	
POS Performance		
Model	gSpin 210	
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	≤0.05m	
Pitch Accuracy	0.015°	
Roll Accuracy	0.015°	
Heading Accuracy	0.040°	
Laser Scanner Performance		
Measuring Range	80m@10%	
Range Accuracy	1cm	
Laser Line Number	32-channel	
Data	Double echo, 1,280,000 Points/Sec	
Field of View (FOV)	360°	
Camera		
Resolution	26 MP	
FOV	80°	
Operation Efficiency Table		
Flight Height (m)	Density (pts/m²) @ speed 10m/s	Single Flight Operation(km²)
50	228	1
100	160	1.68
Software		
Point Cloud Automata	World-leading point cloud classification and post processing software	
Mission Planning Software (optional)	Customized Route Planning Software — WayPoint Master	

Applications

