



GS-100V LiDAR

A start with veratile solutions

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ABOUT

GS-100V LiDAR Solution

GS-100V is a lightweight short-range LiDAR system featuring a 16-channel mechanical laser sensor with dual echo capability. It offers high efficiency and 360° field of view, making it compatible with various UAVs. Ideal for aerial and mobile mapping, it's widely used in terrain mapping, powerline inspection, and digital city development.



Light Weight

Weighing just 1.4kg, it's highly portable and easy to handle. Cost-Effective.



Cost-Effective

Make the LiDAR system more applicable and affordable.



360° FOV

Capture more ground points, even in dense vegetation.



640,000 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	40pts/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	16-channel	
Data	Double echo 640,000 Points/Sec	
Field of View (FOV)	360°	
Camera		
Resolution	26 MP	
Field of View (FOV)	80°	
Operation Efficiency Table		
Flight Height (m)	Density (pts/m² @ speed 10m/s	Single Flight Operation(km²)
50	100	1
100	50	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

