



GS-100M+

UAV LiDAR Scanning System GS-100M+

LIDAR

Self Developed
POS

Trajectory
One Key Solution

Camera
(Optional)

Weight
Lightest



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GS-100M+

UAV LiDAR Scanning System GS-100M+

Highly
Integrated

High
Precision

450m
Ranging

High
Efficiency

Multi
Platforms

Easy
Operation

GS-100M+ LiDAR scanning system is a UAV measurement system independently developed by Geosun company. It highly integrates laser scanner, GNSS satellite positioning system, INS inertial navigation system and camera(optional), and can quickly obtain high-precision laser point cloud number. It can be widely used in Digital city construction, Industry, Land survey, Forestry and Agriculture

System Parameter

Accuracy	≤10cm@110m	Dimension	9.2*11.1*7.4cm
Weight	< 750g	Storage	64 GB Max support 128GB TF card
Working Temperature	-20° ~ +55°	Carrying Platform	Multi Rotor/VTOL

Laser Unit

Measuring Range	190m@10%	FOV	70° the circular view
Laser Class	905nm Class1 (IEC 60825-1:2014)	Range Accuracy (1σ @ 20m)	2cm
Laser Line Number	Equivalent to 64-beam	Data	Triple echo, 720,000 Points/Sec

POS Unit

Update Frequency	200HZ	Position Accuracy	≤0.05m
Pitch /Roll Accuracy	0.015°	GNSS Signal Type	GPS L1/L2/L5, GLONASS L1/L2 BDS B1/B2/B3, GAL E1/E5a/E5b
Heading Accuracy	0.040°		

Pre-Processing Software

POS (Trajectory) Software	Shuttle	Point Cloud Software	gAirHawk
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Camera (optional)

FOV	65°
Effective Pixel	24 MP
Focal Length (mm)	25



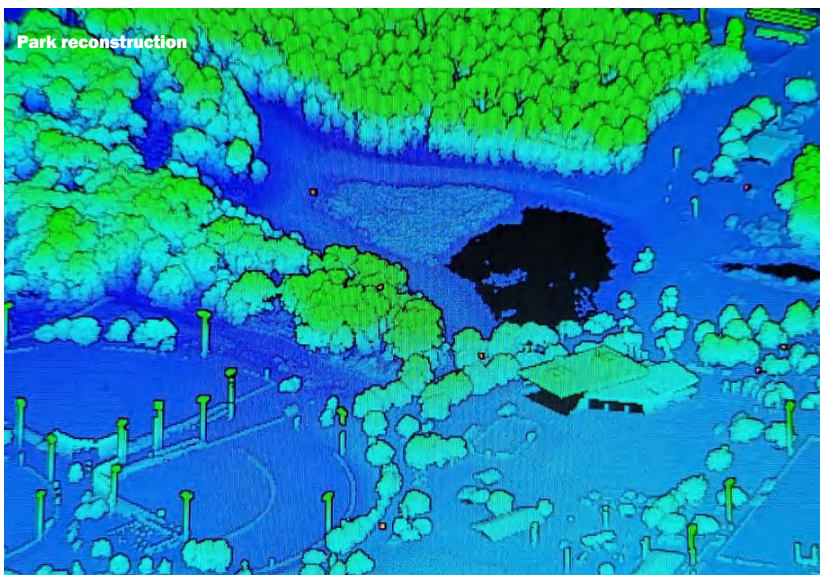
Operation Efficiency Table

Flight Height (m)	Accuracy	Single Flight Operation(km ²)
50	≤5cm	0.88
70	≤7cm	1.28
110	≤10cm	1.92

Mission Planning Software (optional)

Mission Planning Software	Customized Route Planning Software – WayPoint Master
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Application Case



Model:GS-100M
 Flight speed: 10m / s
 Flight altitude: 70m
 Application: Park reconstruction
 Project location:America

