



GS-100C+

UAV LiDAR Scanning System GS-100C+
Color Point Cloud with Highly Integrated Camera

LIDAR

Self Developed
POS

Trajectory
One Key Solution

Camera
Built-in

Color
Point Cloud



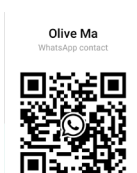
Wuhan Geosun Navigation Technology Co.,Ltd

Web: www.geosunlidar.com

Tel: +86(0)27-87504895

Email add: sales@geosun-gnss.com.cn

Add: 4F, Building D, Maker plaza No.8 West Maodianshan Road, East Lake Hi-tech Zone Wuhan City, China



GS-100C+

UAV LiDAR Scanning System GS-100C+
Color Point Cloud with Highly Integrated Camera

Highly
Integrated

High
Precision

450m
Ranging

High
Efficiency

Multi
Platforms

Easy
Operation

GS-100C+ 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, 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	15.5*9.2*9.3cm
Weight	1036g	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)	2 cm
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
---------------------------	---------	----------------------	----------

Camera

FOV	80°
Effective Pixel	24 MP
Focal Length (mm)	15



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

Application Case



Model:GS-100C
 Flight speed: 10m / s
 Flight altitude: 80m
 Application: Urban Construction
 Project location:Malaysia

