



# 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



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# 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
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## Camera

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



## Operation Efficiency Table

Flight Height (m)	Accuracy	Single Flight Operation(km <sup>2</sup> )
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

