



# GS-100V

UAV LiDAR Scanning System GS-100V



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# GS-100V

## UAV LiDAR Scanning System GS-100V

**Highly**  
Integrated

**High**  
Precision

**120m**  
Ranging

**High**  
Efficiency

**Multi**  
Platforms

**Easy**  
Operation

GS-100V 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	11.5*11*12cm
Weight	1.26 kg	Storage	64 GB Max support 128GB TF card
Working Temperature	-20° ~ +55°	Carrying Platform	Multi Rotor

### Laser Unit

Measuring Range	120m@10%	FOV	360°, adjustable
Laser Class	905nm Class1 (IEC 60825-1:2014)	Range Accuracy	±1cm
Laser Line Number	16-Channel	Data	Double echo 640,000 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	83°
Effective Pixel	26 MP
Focal Length (mm)	16



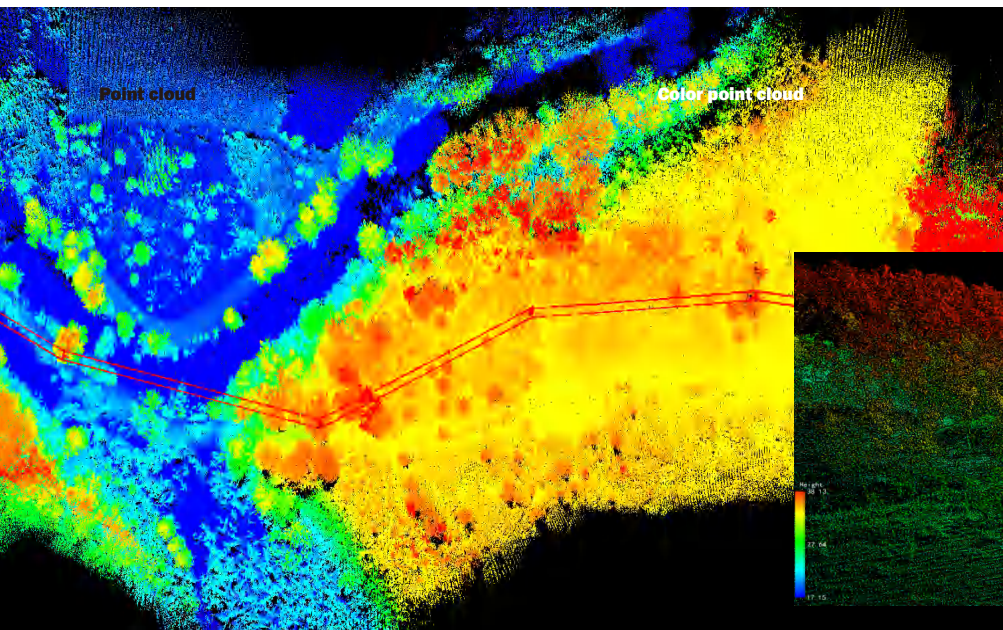
## Operation Efficiency Table

Flight Height (m)	Density (pts/m <sup>2</sup> ) @ speed 10m/s	Single Flight Operation(km <sup>2</sup> )
50	100	1
100	50	1.68

## Mission Planning Software (optional)

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



Model:GS-100V

Flight speed:5m / s

Flight altitude:35m

Application:10KV Power Line

Project location: China

