

## **GS-100D**

**UAV Lidar Scanning System GS-100D**With Integrated Multispectral Camera













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# **GS-100D**

### **UAV Lidar Scanning System GS-100D**With Integrated Multispectral Camera













GS-100D lidar scanning system is a UAV measurement system independently developed by international navigation. It highly integrates laser scanner, GNSS satellite positioning system, INS inertial navigation system and multispectral camera, and can quickly obtain high-precision laser point cloud number. It can be widely used in Forestry and Agriculture.

#### **System Parameter**

Accuracy	≤10cm@110m
Weight	<1.6kg
Working Temperature	-20°~+55°

Dimension	197*115*110mm
Storage	64 GB Max support 128GB TF card
Carrying Platform	Multi Rotor/VTOL

#### **Laser Unit**

Measuring Range	190m@10%
Laser Class	905nm Class1 (IEC 60825-1:2014)
Laser Line Number	Equivalent to 64-beam

FOV	70° the cirular view	
Range Accuracy (1σ @ 20m)	2cm	
Data	Triple echo,720,000 Points/Sec	

#### **POS Unit**

Update Frequency	200HZ
Pitch /Roll Accuracy	0.015°
Heading Accuracy	0.040°

Position Accuracy	≤0.05m
GNSS Signal Type	GPS L1/L2/L5,GLONASS L1/L2 BDS B1/B2/B3,GAL E1/E5a/E5b

#### **Pre-Processing Software**

POS (Trajectory) Software	Shuttle	Point Cloud Software	gAirHawk
rus (Hajectury) surtware	Siluttie	Fullit Gloud Sultwale	gAllHawk

#### Camera

FOV	HFOV: 49.6° VFOV: 38°	
Weight	275g	
Focal Length (mm)	5.2	
Typical Width	110m*83m@AGL=120M	
Resolution	1280*960	
Ground Pixel Resolution	GSD: 8.65 cm/pix, AGL:120	



#### **Operation Efficiency Table**

Flight Height (m)	Accuracy	Single Flight Operation(km²)
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-100D

Flight speed: 10m / s Flight altitude: 70m

Application:Forestry Survey Project location:Wuhan, China







