



# GS-260X

UAV LiDAR Scanning System GS-260X

**LIDAR**

Self Developed  
**POS**

**Trajectory**  
One Key Solution

**Camera**  
(Optional)



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# GS-260X

## UAV LiDAR Scanning System GS-260X

**Highly**  
Integrated

**High**  
Precision

**200m**  
Ranging

**High**  
Efficiency

**Multi**  
Platforms

**Easy**  
Operation

GS-260X 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@150m	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/VTOL

### Laser Unit

Measuring Range	200m@10%	FOV	360°, adjustable
Laser Class	905nm Class1 (IEC 60825-1:2014)	Range Accuracy	±1cm
Laser Line Number	32-beam	Data	Double echo 1280,000 Points/Sec

### POS Unit

Update Frequency	200HZ	Position Accuracy	≤0.05m
Pitch /Roll Accuracy	0.005°	GNSS Signal Type	GPS L1/L2/L5, GLONASS L1/L2 BDS B1/B2/B3, GAL E1/E5a/E5b
Heading Accuracy	0.017°		

### Pre-Processing Software

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

FOV	80°
Effective Pixel	24 MP
Focal Length (mm)	16



## Operation Efficiency Table

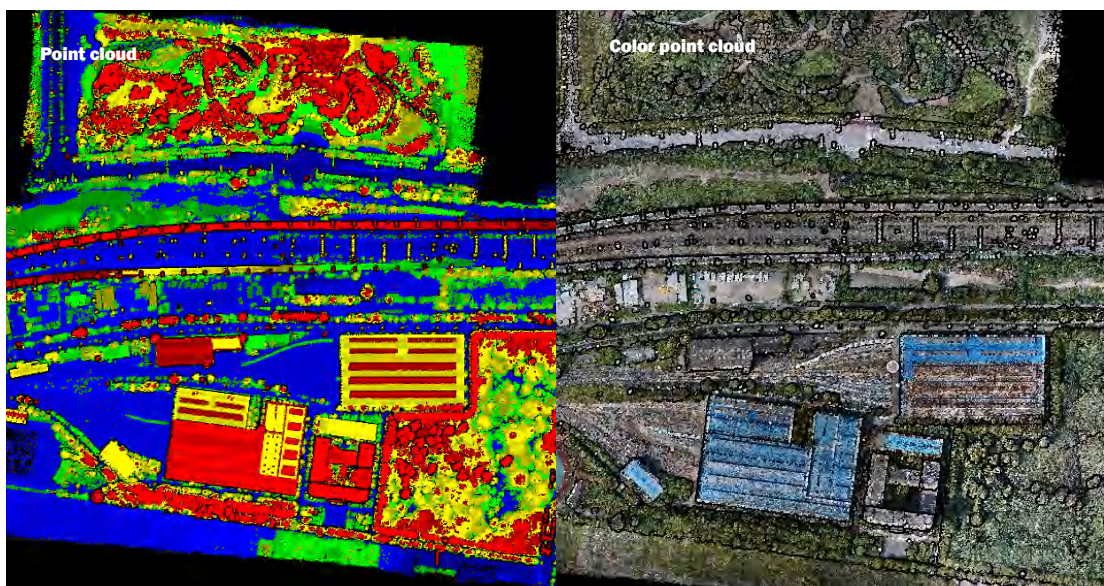
Flight Height (m)	Density (pts/m <sup>2</sup> ) @ speed 10m/s	Single Flight Operation(km <sup>2</sup> )
50	228	1
100	160	1.68
150	86	2.52

## Mission Planning Software (optional)

Mission Planning Software

Customized Route Planning Software – WayPoint Master

## Application Case



Model:GS-260X+Camera

Flight speed:10m/s

Flight altitude:120m

Accuracy:5cm

Application:Track Monitoring

Project location:China

