



# GS-130X

UAV LiDAR Scanning System GS-130X

**LIDAR**

Self Developed  
**POS**

**Trajectory**  
One Key Solution

**Camera**  
(Optional)



**Wuhan Geosun Navigation Technology Co.,Ltd**

Web: [www.geosunlidar.com](http://www.geosunlidar.com)

Tel: +86(0)27-87504895

Email add: [sales@geosun-gnss.com.cn](mailto: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-130X

## UAV LiDAR Scanning System GS-130X

**Highly**  
Integrated

**High**  
Precision

**120m**  
Ranging

**High**  
Efficiency

**Multi**  
Platforms

**Easy**  
Operation

GS-130X 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
Weight	1.26 kg
Working Temperature	-20° ~ +55°

Dimension	11.5*11*12cm
Storage	64 GB Max support 128GB TF card
Carrying Platform	Multi Rotor/VTOL

### Laser Unit

Measuring Range	120m@10%
Laser Class	905nm Class1 (IEC 60825-1:2014)
Laser Line Number	32-beam

FOV	360°, adjustable
Range Accuracy	±1cm
Data	Double echo 1280,000 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
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Point Cloud Software	gAirHawk
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## Camera (optional)

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



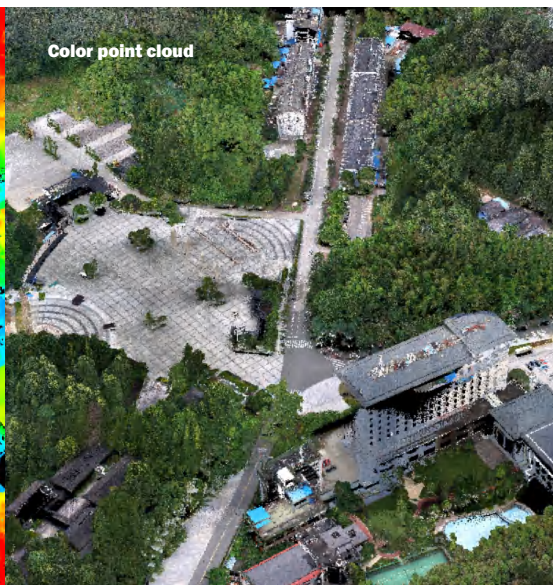
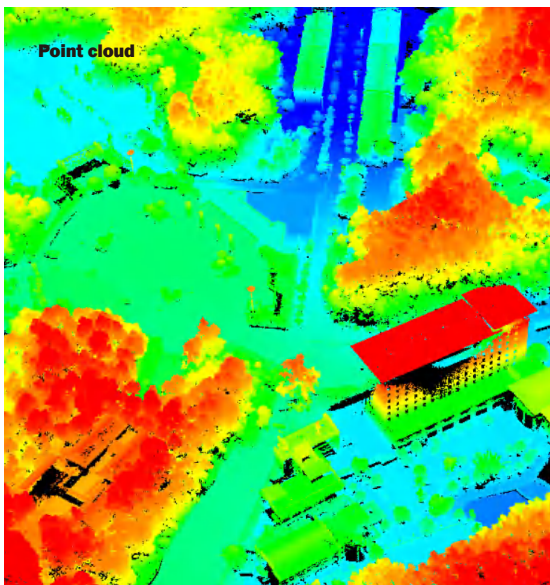
## Operation Efficiency Table

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

## Mission Planning Software (optional)

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



Model:GS-130X+Camera  
 Flight speed:10m / s  
 Flight altitude:70m  
 Application:Urban Planning  
 Project location:Anhui, China

