GS-130X

UAV LiDAR Scanning System GS-130X

LIDAR | **Self Developed POS** | **Trajectory** One Key Solution | **Camera** (Built-in)

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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@120m	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	120m@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

Camera

FOV	83°
Effective Pixel	26 MP
Focal Length (mm)	16

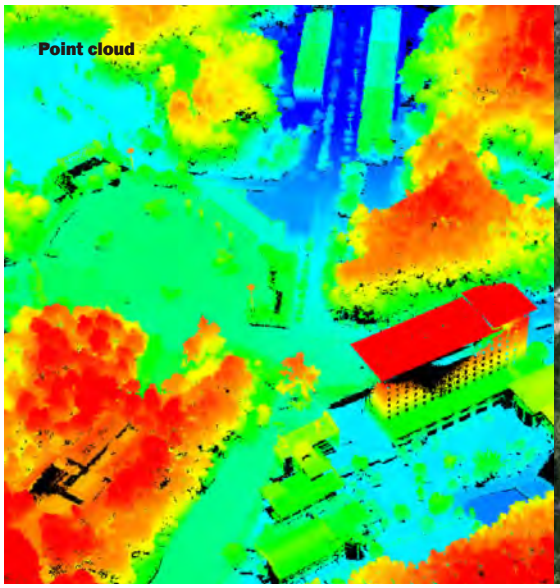
Operation Efficiency Table

Flight Height (m)	Density (pts/m²) @speed 10m/s	Single Flight Operation(km²)
50	228	1
100	160	1.68

Mission Planning Software (optional)

Mission Planning Software	Customized Route Planning Software — WayPoint Master

Application Case



Model:GS-130X

Flight speed:10m / s

Flight altitude:70m

Application:Urban Planning

Project location:Anhui, China