Geosun

UAV LIDAR SCANNING SYSTEM
gAirHawk Series

gAirHawk

gAirHawk GS-130H uav Lidar Scanning System

gAirHawk GS-130H is a kind of compact LiDAR point cloud data acquisition system, integrated Livox new generation laser scanner, GNSS and IMU positioning and attitude determination system, camera (optional) and storage control unit, is able to real-time, dynamically, massively collect high-precision point cloud data and rich image information. It is widely used in the acquisition of 3D spatial information in surveying, electricity, forestry, agriculture, land planning, geological disasters, mine safety.

High efficiency, high precision, high point cloud density, double echo function, good vegetation penetration, it can be widely used in topographic surveying and mapping, pile measurement, power line inspection, marine surveying and mapping, forestry investigation, road survey and design and other fields.

Specification of GS-130H:

Item Name		System Parameters
GS-130H	Weight	1.46kg (without camera)
	Working temperature	-40℃~+85℃
	Power Range	12V~15V
	Consumption	Average 15W
	Carrying Platform	DJI M600 PRO, DJI M300
	Storage	64 GB Max support 128GB TF card
	Measuring accuracy	Less than 0.12 cm @100m AGL
Lidar Unit	Measuring Range	90m@10% Reflectivity 130m@20% Reflectivity 260m@80% Reflectivity
	Laser Class	905nm Class1 (IEC 60825-1:2014)
	Laser Line Number	Equivalent to 64-beam
	Mix. range	0.3 M
	Range accuracy	±5cm (@0.3m~1m), ±2cm (@1m~200m)
	Data	Double echo 480,000 Points/Sec
	FOV	81.7°× 25.1°
	Laser sensor	Livox Horizon
POS Unit	Update frequency	200HZ
	Pitch Accuracy	0.015°
	Roll Accuracy	0.015°
	Heading Accuracy	0.04°
	Position Accuracy	0.02～0.05 m
	GNSS Signal type	GPS L1/L2;GLONASS L1/L2 BDS B1/B2a/B3;GAL E1/E5b/E5a
	POS Type	gSpin 302(AGS)
Pre-processing software	POS software	Output information: position, speed, attitude
	Point cloud software	Output data format: LAS format, custom TXT format
Camera (option)	Camera Model	Sony RX1/a 6000
	Effective Pixel	42/24 Mega Pixel
	Trigger event	Distance or Time trigger
	Weight	Less than 600/300g