



# UAV LIDAR SCANNING SYSTEM gAirHawk Series

# gAirHawk

## gAirHawk GS-260X uav Lidar Scanning System

gAirHawk GS-260X is a kind of compact LiDAR point cloud data acquisition system, integrated HESAI Pandar 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.



Operation efficiency table

Flight height ( m )	Density ( pts/m <sup>2</sup> )	Single Flight operation(km <sup>2</sup> )
50	128	0.84
100	64	1.68
150	42	2.52

## Specification of GS-260X

	Item Name	System Parameters
GS-260X	Weight	1.26 kg (without camera)
	Working temperature	-20°C~ +65°C
	Power Range	12 V- 24 V
	Consumption	10 W
	Carrying Platform	DJI M300, M600 PRO
	Storage	64 GB Max support 128GB TF card
	Measuring accuracy	0.1m/0.05m(@150m)
Lidar Unit	Measuring Range	0.3m-130m@10% Reflectivity(Max 200m)
	Laser Class	905nm Class1 (IEC 60825-1:2014)
	Laser Line Number	32-Beam
	Mix. range	0.05M
	Range accuracy	±1cm (Typical Value),
	Data	Double echo 1280,000 Points/Sec
	FOV	360°, adjustable
	Laser sensor	HESAI Pandar XT
POS Unit	Update frequency	200HZ
	Pitch Accuracy	0.005°
	Roll Accuracy	0.005°
	Heading Accuracy	0.017°
	Position Accuracy	≤0.05m
	GNSS Signal type	GPS L1/L2;GLONASS L1/L2 BDS B1/B2a/B3;GAL E1/E5b
	POS Type	gSpin 303(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