

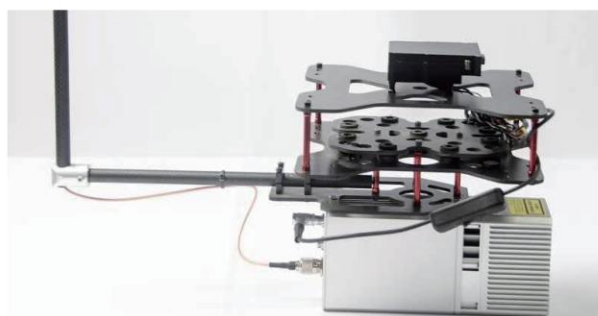
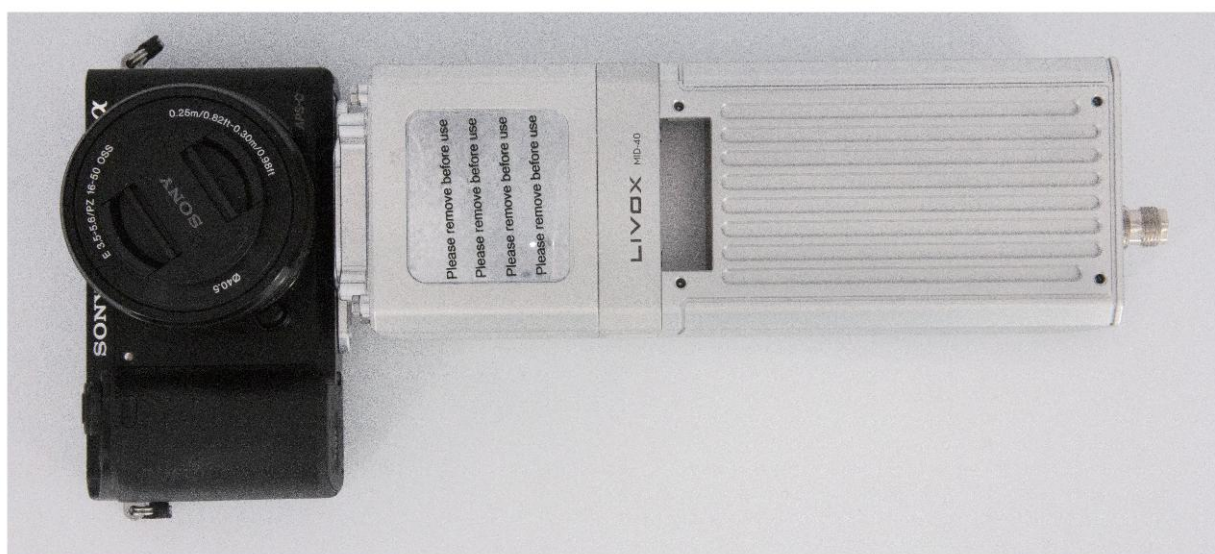


UAV LIDAR SCANNING SYSTEM gAirHawk Series

gAirHawk

gAirHawk GS-MID40 uav Lidar Scanning System

gAirHawk GS-MID40 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-MID40:

	Item Name	System Parameters	
GS-MID40	Weight	1.2kg (without camera)	
	Working temperature	-20°C~ +55°C	
	Power Range	12V~16V	
	Consumption	Average 20W	
	Carrying Platform	DJI M210, DJI M600 PRO	
	Storage	64 GB Max support 128GB TF card	
	Measuring accuracy	15cm@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	20-Beam	
	Mix. range	0.3M	
	Range accuracy	±5cm (@0.3m~5m), ±2cm (@0.5m~200m)	
	Data	Double echo, 200,000 Points/Sec	
	FOV	38.4° the circular view	
	Laser sensor	MID40	
	POS Unit	Update frequency	200HZ
		Pitch Accuracy	0.03°
Roll Accuracy		0.03°	
Heading Accuracy		0.08°	
Position Accuracy		≤0.05m	
GNSS Signal type		GPSL1/L2 GLONASSL1/L2 BDS B1/B2a/B3	
POS Type		gSpin 301(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	