

POSTERRA V-HAWK 40

Posterra V-hawk 40 is a kind of light compact LiDAR point cloud data acquisition system, integrated V-Hawk 40 laser scanner, GNSS and IMU positioning and attitude determination system 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 and land planning.

Key Feature

High efficiency

Stand-alone daily survey about 150 hectare

High integration

Fully integration with DJI drone's power

Point cloud data time synchronization

Point cloud data / POS data unified storage

System stability

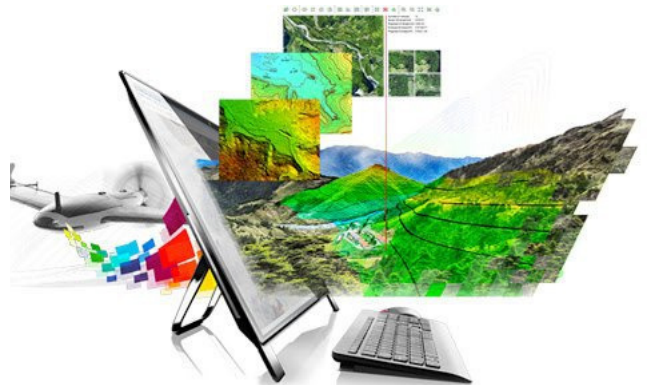
Has been tested many hours for durability

Easy to operate

Support one-button process data collection, one-click take off and landing, automatically execute flight data.

Real-time monitoring

Support point cloud data, POS parameters and real time display device status during operation.



Technical specification

	Item Name	System Parameters
Parameters	Weight	1.2 kg (without camera)
	Measuring accuracy	<0.1m
	Power range	12V-16V
	Working temperature	-20°C - +55 °C
	Consumption	Average 20W
	Support Platform	DJI M210, DJI M600 PRO
	Storage	64GB storage, maximum support 128GB TF card
Lidar Unit	Measuring Range	90m@10% Reflectivity, 260m@80% Reflectivity
	Laser class	905nm Class1 (IEC 60825-1:2014)
	Max. range	206m
	Range accuracy	0.3M
	Data	±5cm (0.3m-1m)
	FOV	100,000 points/sec
POS Unit	Update frequency	38.4° the circular view
	Heading accuracy	200HZ
	Pitch accuracy	0.08°
	Rolling accuracy	0.03°
	Position accuracy	0.03°
	GNSS signal type	GPSL1/L2 GLONASSL1/L2 BDS B1/B2
Pre-processing software	POS software	Output information : position, speed, attitude
	Print cloud software	Output point cloud data format : LAS format, custom TXT format

LIDAR UAV Solution come with
. 1 x Aircraft Body
. 1 x DJI Smart Controller Enterprise
. 1 x USB Charger*
. 1 x USB-C Cable
. 1 x WB37 Intelligent Battery
. 1 x WB37 Intelligent Battery
. 2 x 2110 Propeller (CW)
. 2 x 2110 Propeller (CCW)
. 2 x Landing Gear
. 1 x Spare Stick Cover(pair)
. 2 x Spare Propeller Holder
. 4 x Spare Gimbal Damper
. 1 x USB Cable (with Double A Ports)*
. 1 x Vision System Calibration Plate
. 1 x Carrying Case*
. 1 x Smart Controller Lanyard*
. 1 x Rubber Port Cover (set)
. Screw and Tools
. 1 x Power Cable*
Manual
. 4 x TB60 Intelligent Flight Battery
. 1 x BS60 Intelligent Battery Station
Aircraft Specification: Weight: 6.3kg with 2 batteries Max wind resistance:15m/s Max Flight time: 55min Max height: 5000m

