

POSTERRA V-HAWK 100H

Posterra V-Hawk 100H is a kind of light compact LiDAR point cloud data acquisition system, integrated 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.



Product Superiority

High efficiency

Mapping accuracy met 1:1000 / 1:500

High efficiency

Stand-alone daily survey 50 square kilometers

High integration

Point cloud data time synchronization

Point cloud data / POS data unified storage

Simultaneous acquisition of image data

System stability

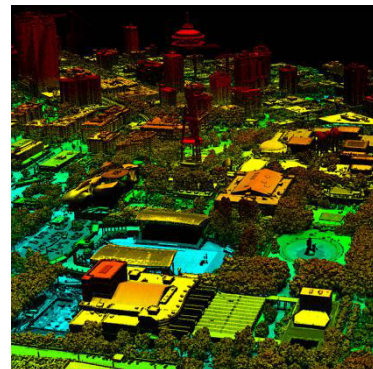
POS data double backup

Easy to operate

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

Real-time monitoring

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



Technical Parameter

POSTERRA V-HAWK 100H		
	Item Name	System Parameters
Parameters	Weight	1.8kg (without camera)
	Measuring accuracy	0.1m
	Working temperature	-40°C~+85°C
	Power range	12 V- 15 V
	Consumption	Average 15 W
	Carrying Platform	DJI M600 PRO, DJI M300 RTK
	Storage	64 GB storage, maximum support 128GB TF card
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-line
	Max. range	260 m
	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 °
POS Unit	Update frequency	200HZ
	Heading accuracy	0.08°
	Pitch accuracy	0.03°
	Rolling accuracy	0.03°
	Position accuracy	≤0.05m
	GNSS signal type	GPSL1/L2 GLONASSL1/L2 BDS B1/B2
Pre-processing software	POS software	Output information: position, speed, attitude
	Point cloud software	Output point cloud data format: LAS format, custom TXT format
Point cloud processing software	The third-party software	LiDAR_Mate, Point Cloud Catalyst, Point Cab, TerraSolid, TopoDoT