POSTERRA V-HAWK 920

Posterra V-Hawk 920 is a kind of long-range compact LiDAR point cloud data acquisition system, integrated long-rang 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

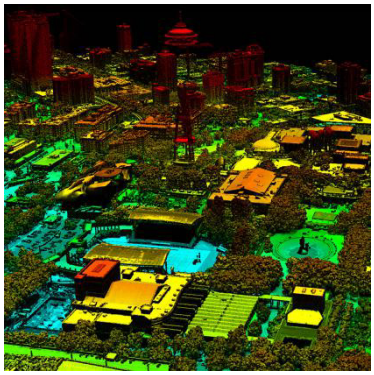
Stand-alone daily survey 500 square kilometers

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

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Technical Parameter

Posterra V-Hawk 920		
	Item Name	**System Parameters**
Parameters	Weight	4.5 Kg
	Measuring accuracy	0.1m/0.05m(@150m)
	Working temperature range	-10℃~+40℃
	Power range	24 V
	Consumption	65 W
	Carrying Platform	DJI M600 PRO, EWG-G3V
	Storage	64 GB storage, maximum support 128GB TF card
Lidar Unit	Measuring Range	550m@20% Reflectivity, 920m@60% Reflectivity
	Laser class	905nm Class1 (IEC 60825-1:2014)
	Laser line number	Single-line
	Max. range	920 m
	Mix. range	3 m
	Range accuracy	10 mm, average 5 mm
	Scanning frequency	10-200 HZ
	Weight	3.75 Kg
	data	550,000 Points/Sec
	FOV	Max 330°, adjustable
POS Unit	Update frequency	200HZ
	Heading accuracy	0.01°
	Pitch accuracy	0.003°
	Rolling accuracy	0.003°
	Position accuracy	Horizontal: 0.01 m, Vertical: 0.02 m
	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

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