



LI AIR 220

UAV 3D Mapping System



LiAir 220

Choose between Standard (S220) and Premium (P220) aided by inertial navigation packages for resolving system position ambiguities occurred during data collection. An optional high-definition digital camera module is available those seeking to produce true color 3D point clouds. The LiAir 220 provides a turnkey solution for those requiring both high-accuracy and high-density ground point at an affordable price point.



Acquisition & GNSS/INS Post-Processing Software

LiNav is a GNSS/INS post-processing module integrated in our acquisition software, LiAcquire. It provides tools to process GNSS/INS data acquired by the system and generate centimeter-level trajectory data for georeferencing point clouds and images. With a one-button process, it can also provide a system performance report for the operator to examine the reliability of the acquired data.



Mission Planning Software

LiPlan is a UAV ground station control application designed specifically for the LiAir Series and any other LiDAR systems mounted on the DJI M600 Pro. Users can design flight routes in the application or sync pre-designed flight routes through LiCloud, and complete the flight mission automatically with the one-button take-off design.

Specifications

Laser Sensor	Hesai Pandar40P
Range Accuracy	±2 cm
Scan Range	220 m
System Accuracy	±5 cm (S220) ±4 cm (P220)
POS System Performance	Attitude: (S220) 0.1° (1σ) Azimuth:(S220) 0.1° (1σ)
	Azimuth: (P220) 0.015° (1σ) Attitude: (P220) 0.015° (1σ)
Onboard Storage	128 GB
Ports Available	Ethernet & USB 3.0
Weight	4.24 kg excl. battery & camera
Dimensions (Main Unit)	1170*208*123.5 mm
Max. Flight Time	21 min
Camera	Sony a6000
Route Planning Software	LiPlan (proprietary)
Acquisition /PP POS Software	LiAcquire (proprietary)
Vertical FOV	25°~15°
Horizontal FOV	360°