



LI AIR 50

UAV 3D Mapping System




LiAir 50

LiAir 50, powered by Velodyne's VLP-16 sensor, is GreenValley International's most cost-effective UAV LiDAR system. Choose between Standard (S50) and Premium (P50) aided inertial navigation packages for resolving system position ambiguities that occur during data collection. An optional high definition digital camera module is available for those seeking to produce true color 3D point clouds. The LiAir 50 provides a turnkey solution for those that are new to UAV LiDAR as well as the most seasoned professionals.




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	Velodyne VLP-16
Range Accuracy	±3 cm
Scan Range	100 m
System Accuracy	±5 cm (S50)
POS System Performance	Attitude: (S50) 0.1° (1σ) Azimuth: (S50) 0.1° (1σ)
	Attitude: (P50) 0.015° (1σ) Azimuth: (P50) 0.08° (1σ)
Onboard Storage	128 GB
Ports Available	Ethernet & USB 3.0
Weight	3.4 kg excl. battery & camera
Dimensions (Main Unit)	1170*181*197mm
Max. Flight Time	21 min
Camera	Sony a6000
Route Planning Software	LiPlan (proprietary)
Acquisition /PP POS Software	LiAcquire (proprietary)
Field of View	up to 360°
Scan Rate	300,000 pts/s