



LiAIR V

UAV 3D Mapping System

LiAir V

LiAir V is a newly designed, light-weighted airborne LiDAR system of GreenValley International. Powered by the revolutionary laser scanner, Livox Mid-40, LiAir V has become the most cost-effective LiDAR system in the LiAir series. With high flexibility (can be mounted on both DJI M200 and DJI M600 Pro), LiAir V can provide high-accuracy point cloud of different environments for the users in various industries, e.g. surveying, forestry, power line inspection.



Acquisition & GNSS/INS Post-Processing Software

LiAcquire is the one-stop software for acquisition and post-processing for LiAir V. LiAcquire monitors the data acquisition process in real-time, processes GNSS/INS data to generate scanning trajectory in cm-level accuracy, uses it to georeference point clouds and images, and outputs a quality report for performance evaluation.



Mission Planning Software

LiPlan is a UAV ground station application designed for LiAir series. LiPlan automates flight route generation following user-defined Region of Interest and surveying parameters, and with the one-button take-off design, LiPlan auto-pilots through the calibration figure-8 maneuvers and data acquisition flight routes.

Specifications

Laser Sensor	Livox Mid-40
Range Accuracy	± 2 cm
Scan Range	90 m @ 10% reflectance
	130 m @ 20% reflectance
	260 m @ 80% reflectance
System Accuracy	± 5 cm
POS System Performance	Attitude: 0.05° (1σ)
	Azimuth: 0.05° (1σ)
Onboard Storage	128 GB
Ports Available	Ethernet & USB 3.0
Weight (excl. battery & camera)	2.8 kg (Std Version)
	1.3 kg (Light Version)
Dimensions (Main Unit)	
Route Planning Software	LiPlan (proprietary)
Acquisition/PP POS Software	LiAcquire (proprietary)
Field of View	38.4°
Scan Rate	100,000 pts/s