



LiAir 50

UAV 3D Mapping System

LiAir 50

UAV LiDAR

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 LiAir system and can export centimeter-level position and attitude results for point cloud and image georeferencing. With a one-button process, it provides a system performance report ensuring highly reliable results.

Mission Planning Software

LiPlan is a UAV ground station control application developed by GVI specifically for use with the LiAir Series and the DJI M600 Pro.

Specifications

Laser Sensor	Velodyne VLP-16
Range Accuracy	± 3 cm
Maximum Range	100 m
System Relative Accuracy	± 5 cm (S200)
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	1170*181*197 mm
Max. Flight Time	21 min
Camera	Sony a6000
Route Planning Software	LiPlan (proprietary)
Acquisition/PP POS Software	LiAcquire (proprietary)
Vertical FOV	$-15^\circ \sim +15^\circ$
Horizontal FOV	360°