GreenValley International

LiAir H600 Pro

Cost-Effective Surveying-Grade LiDAR System

The LiAir H600 Pro is a new generation of lightweight, medium-range LiDAR scanning system developed by Greenvalley International(GVI). It features high integration of a lightweight survey-grade LiDAR unit, a self-developed high-precision IMU, and a high-resolution mapping camera. With a total weight of only 1.62 kg and a maximum measurement range of up to 1200m, it can be easily integrated with light-wing or multi-rotor UAVs, significantly improving flight endurance and operational efficiency. Coupled with the flight control software GreenValley and post-processing software LiDAR360/LiPowerline, it provides a more efficient one-stop solution for power line inspection, forestry resource survey, and emergency disaster assessment.

Advantages

High-Precision Survey-Grade LiDAR with Excellent Point Cloud Quality

Integrated survey-grade single-line LiDAR, with elevation accuracy superior to 5 cm and point cloud thickness better than 3 cm at an operating altitude of 200 m.

Small laser spot with concentrated pulse energy and support for unlimited returns enables effective penetration through dense vegetation cover, acquiring complete terrain data beneath the canopy.

Maximum laser pulse repetition rate of 1000KHZ and an 80° horizontal field of view (FOV) provide an effective single-flight swath width greater than 350m at 200m flight height.

Adaptive Configuration of Operational Parameters for More Uniform Point Cloud Distribution

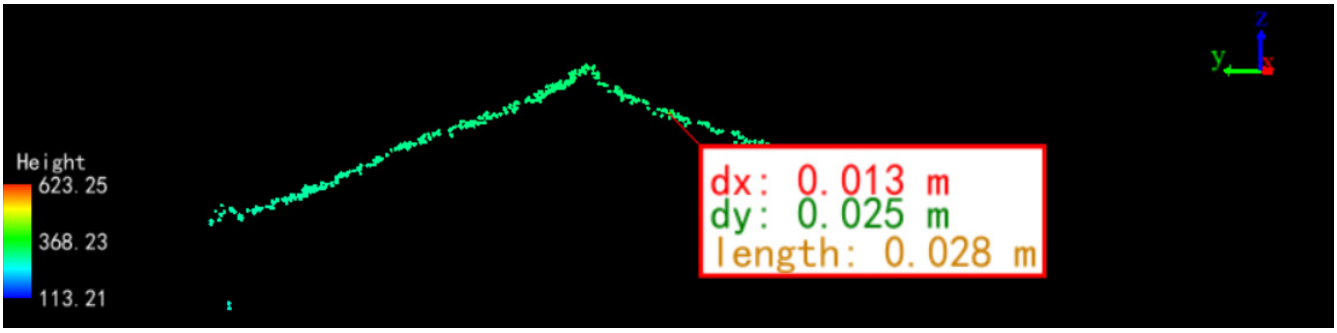
Seven adaptive configuration presets for flight height, pulse repetition rate, and laser energy ensure consistent scan line spacing and point spacing under different flight height/speed settings. This guarantees uniform point cloud distribution and more detailed 3D reconstruction of ground features.

Intelligent Flight Control Mode

When integrated with DJI M300/M350 RTK/M400 drones, the system features intelligent flight height detection. It automatically starts data collection after takeoff and stops upon landing, ensuring data integrity while minimizing data redundancy and improving post-processing efficiency.

Compatible with GreenValley Flight Assistant

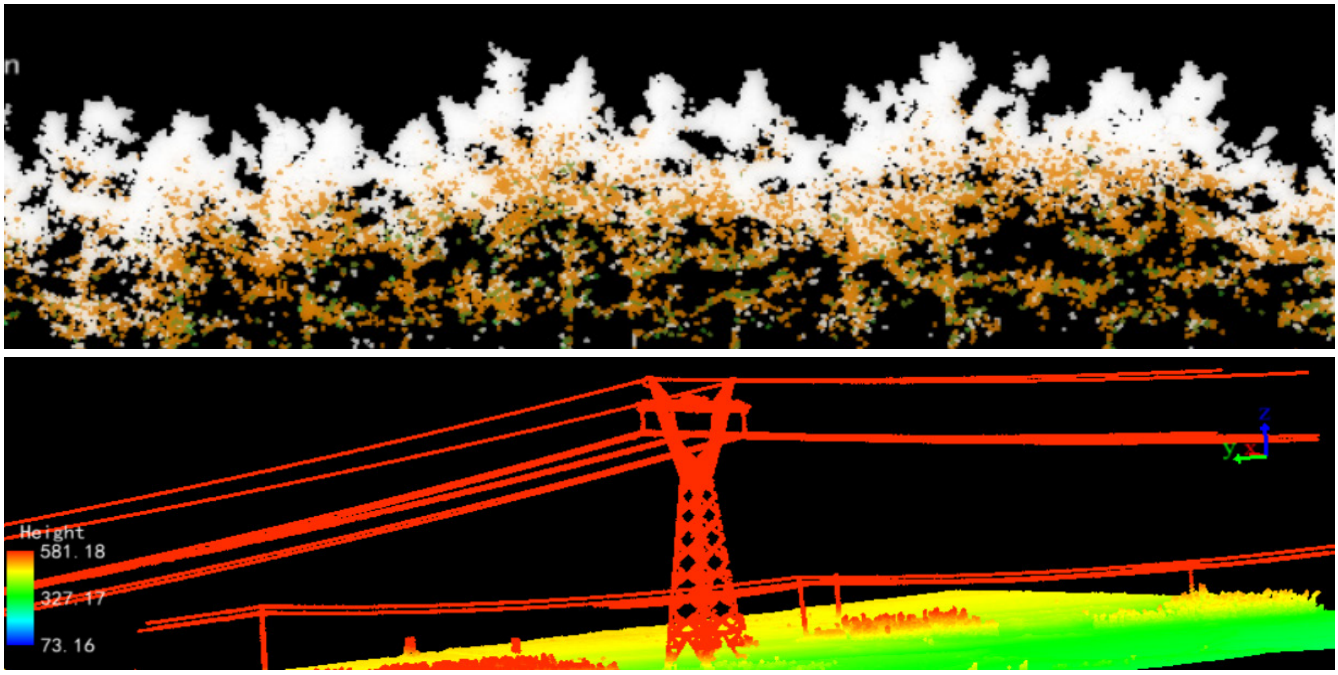
It supports monitoring of operational status, configuration of device parameters, and real-time display of 3D point clouds. This enables real-time verification of data integrity and equipment working status, timely issue detection, prevention of ineffective operations and data rework, making field operations safer and more controllable.



729 Heinz Avenue, Suite 9, Berkeley, CA 94710, USA I www.greenvalleyintl.com I info@greenvalleyintl.com

Specifications

System Parameters			
Accuracy (Vertical)	±5 cm @ 200 m	Storage	256 G TF Card
Weight	1.62 kg	Dimensions	217×88×106.4 mm
Voltage	18~24 V, 2.52 A @ 24 V DC	Typical Power Consumption	Approx. 61 W
Communication	WiFi / USB-C	Storage Temperature	-30~60°C
Operating Temperature	-20~50°C		
LiDAR Sensor Parameters			
Range	450 m (10% reflectivity) 1000 m (50% reflectivity) 1200 m (80% reflectivity)	Wavelength	1550 nm
FOV	80°	Range Precision	5 mm @ 100 m
Number of Returns	Unlimited	Scan Rate	90~300 lines/sec
Pulse Repetition Rate	100,000~1000,000 points/sec		
Inertial Navigation System			
GNSS	GPS,GLONASS,Galileo,BDS	Azimuth Accuracy	0.019°
IMU Data Frequency	500 Hz	Attitude Accuracy	0.006°
Camera Parameters			
Pixels	26 MP	Focal Length	16 mm / 24 mm (Equiv. Focal Length)
Image Resolution	6252×4168		
Software			
Control Software	GreenValley	Pre-Processing	LiGeoreference
Post-Processing	LiDAR360 / LiPowerline (Optional)		



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