

LiAir V70

UAV 3D Mapping System



The LiAir V70 is a lightweight drone-mounted LiDAR survey instrument designed and produced by GreenValley International (GVI). This system features a Livox AVIA laser scanner and it is one of the most cost-effective LiDAR system in GVI's LiAir Series. This lightweight 3D surveying and mapping payload was designed with DJI's Matrice 600 Pro & DJI M300 RTK & DJI's Matrice 210 series platforms. LiAir V70 is able to provide highly accurate 3D point cloud data and is a great fit for applications in a wide variety of industries including forestry. And it also provides an option to be equipped with a high-definition digital camera, which can be used to generate photogrammetry products as well as true color 3D point clouds.



Acquisition & GNSS/INS Processing Software

LiAcquire Web is used for system parameters setting, working status monitoring, system activation, etc. LiGeoreference processes GNSS/INS data to generate scanning trajectory in cm-level accuracy, uses it to georeference point clouds and images, and outputs the quality report for performance evaluation.

Specifications

Range Accuracy	2cm (1 σ @20m)
Detection Range (@100 klx)	190 m @ 10% reflectance
	450 m @ 80% reflectance
System Accuracy (Vertical)	5cm @ 70m
Operating Temperature	-20~50 °C
Storage Temperature	-30~60 °C
Internal Storage	256GB TF Card
Wavelength	905nm
Typical Flight Speed	5-10 m/s
Weight	1.25kg
Dimensions	136×106×129mm
Laser Class	Class1
FOV	70.4° (Horizontal) × 4.5° (Vertical)
Voltage	12~24V, 0.9A @ 24VDC
Power Consumption	22W