

# LI AIR V

## UAV 3D Mapping System



**Mena3D Qatar**

D-Ring  
P.O.Box: 22103  
Doha, Qatar  
Phone :+974 (0) 4 03 155 55  
Fax :+974 (0) 4 46 544 05  
contact@mena3d.com

**Mena3D s.a.r.l**

Beshara El Khoury Street  
4<sup>th</sup> Floor, Ghanaja Building  
Beirut, Lebanon  
Phone :+961 (0) 70 34 54 82  
contact@mena3d.com



**Mena3D GmbH**

Vogelsangstrasse 27  
70176 Stuttgart  
Germany  
Phone:+49 (0) 711 94 56 82 82  
Fax :+49 (0) 711 94 56 82 88  
E-Mail: contact@mena3d.com  
www.mena3d.com

**Mena3D Services s.a.r.l**

112 rue Radhia Haded  
1001 Tunis  
Tunisia  
Phone:+216 (0) 71 245 692  
Fax :+216 (0) 71 245 692  
contact@mena3d.com

**Mena3D Trading FZE**

JAFZA One Building  
10<sup>th</sup> Floor BB1007, JAFZA North  
P.O. Box 18215  
Dubai, United Arab Emirates  
Phone:+971 (0) 4 88 767 46  
Fax :+971 (0) 4 88 765 18  
contact@mena3d.com

**Mena3D S.a.r.l**

Avenue Allal El Fassi  
Residence Sanaa, 4<sup>th</sup> Floor  
Apartment No. 24  
Issil Marrakech, Morocco  
Phone :+212 (0) 5 24 45 83 94  
Fax :+212 (0) 5 24 45 86 74  
contact@mena3d.com



# LiAir V

The LiAir V is a light-weighted UAV- or sUAS-mouanted LiDAR survey instrument designed and produced by GreenValley International (GVI). This system features a Livox Mid-40 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 M200, M210 RTK, M300 RTK and M600 Series platforms in mind. LiAir V 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.



## Acquisition & GNSS/INS Post-Processing Software

LiAcquire web version 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 an 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: 0.008° (1σ)
	Azimuth: 0.038° (1σ)
Onboard Storage	128 GB
Ports Available	Ethernet
Weight (excl. battery )	1.0 kg
Dimensions (Main Unit)	125*70*116 mm
Route Planning Software	LiPlan (proprietary)
Acquisition / PP POS Software	LiAcquire web & LiGeoreference
Field of View	38.4°
Scan Rate	100,000 pts/s