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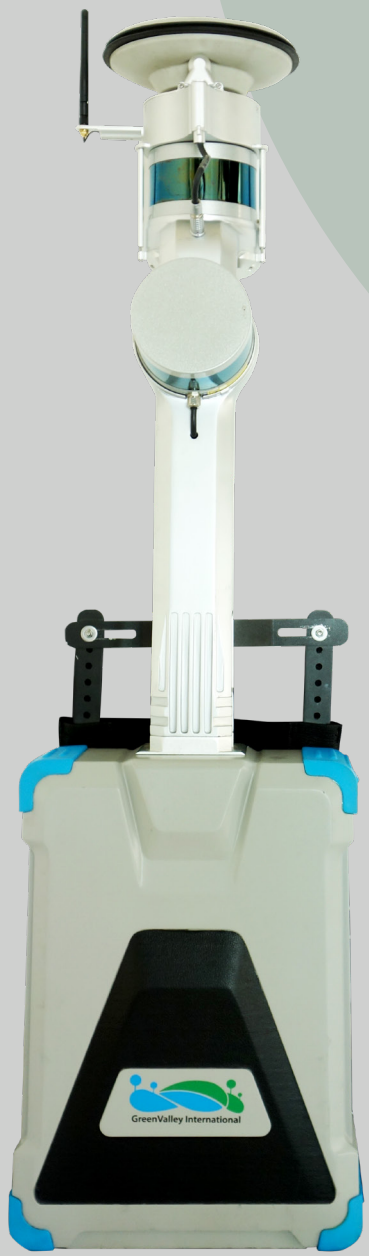

LiBackpack DG50

Mobile Handheld 3D Mapping System

GreenValley International

GreenValley International

LiBackpack DG50

LiBackpack DG50 is an upgraded version of GreenValley International's dual-sensor laser scanning system. With a GNSS module onboard, the LiBackpack DG50 provides 3D point cloud model with highly accurate absolute positioning information. With just a 500 grams increase in weight, the newly designed LiBackpack DG50 gives you absolute positioning function along with all the advantages of LiBackpack D50.

Highly Accurate Positioning Information

The relative accuracy of the collected point cloud is ≤ 3 cm, and the absolute positioning accuracy after being post-processed by DG 50's complementary software LIBackpack is ≤5 cm.

Indoor and Outdoor Scanning Capability

A combination of outdoor and indoor environment can be handled by DG50 with a well-planned scanning route.

Improved SLAM Solution

The 3D modeling performance of DG50's SLAM solution is improved by integrating the absolute positioning information provided by the GNSS module.

Specifications

Laser Sensor	Velodyne VLP-16*2
Scan Range	100 m
System Relative Accuracy	≤ 3cm*
Operation & Data Transfer	WIFI connection (mobile phone, tablet)
	Wired Ethernet connection (tablet)
Onboard Storage	512 GB
Ports Available	HDMI,Ethernet & USB
Operation Time	~2 hour w/ DJI TB48S battery
Weight	9.3 kg without battery
Dimensions	1085*300*150 mm
Typical Ground Speed	1 m/s
Max. Power Consumption	85 w
WiFi Band	2.4 GHz
Scan Rate	600 kHz
FOV	V : -90° to +90° \ H : 360°
Display	UI via mobile device
GNSS Positioning Accuracy	1 cm + 1 ppm
System Absolute Accuracy	≤ 5cm*
GNSS Signals	GPS: L1 C/A, L1C, L2C, L2P, L5 GLONASS: L1 C/A, L2C, L2P, L3,L5 BeiDou: B1,B2
Outputs Data Format	Las, Laz, LiData, ply

*Affected by scanning route and environment.

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