

# LiBackpack C50

Mobile Handheld 3D Mapping System



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LiBackpack C50 is an advanced SLAM-based 3D mapping system which integrates LiDAR and 360° imaging technologies to produce true color point clouds. Functional in both handheld and backpack modes, the LiBackpack C50 is a flexible mobile laser scanning solution for indoor and outdoor applications. Users can opt for a LiDAR-only solution when colorized point clouds are not required.



### Operational Versatility

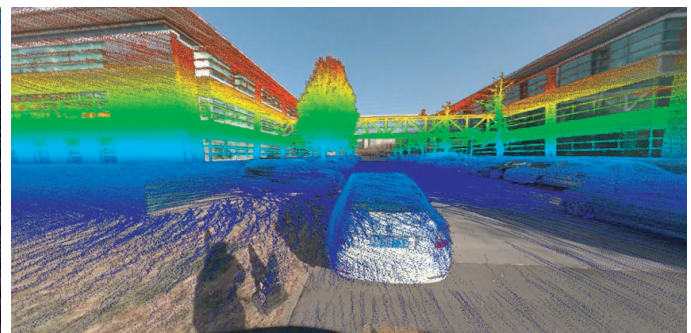
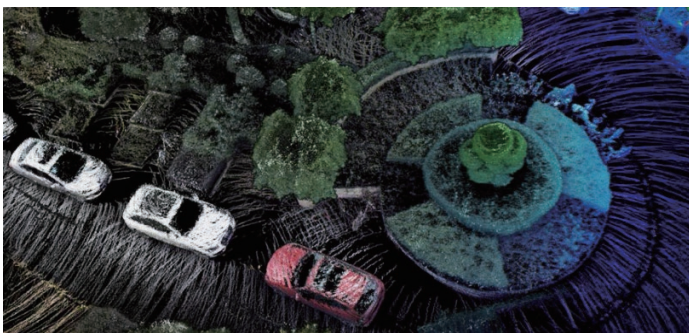
The LiBackpack C50 is functional in both handheld & backpack modes. The Backpack mode allows for a true hands-free experience while the Handheld mode offers a wider FOV.

### Real-Time Data Visualization

Visualize the point cloud in real-time via the connected device (wired/wireless). The LiBackpack user interface also displays device status information.

### Advanced SLAM Solution

Robust SLAM algorithms that includes automatic loop closure & a system capable of producing a real-time point cloud.



## Specifications

Laser Sensor	Velodyne VLP-16
LiDAR Accuracy	±3 cm
Scan Range	100 m
Data Accuracy	≤ 3cm*
Operation & Data Transfer	WIFI connection (mobile phone, tablet) Wired Ethernet connection (tablet)
Onboard Storage	512 GB
Ports Available	HDMI, Ethernet & USB 3.0
Operation Time	~2 hour w/ DJI TB47S battery

Weight	6.4 kg
Dimensions	950*250*160 mm
Typical Ground Speed	1 m/s
Camera	Panoramic Camera
Resolution	4320*2160
Frame Rate	25 fps
Vertical FOV	-15°~15°
Horizontal FOV	360°
Point Cloud Format	.las, .ply, LiData

\* Affected by scanning route and environment.