Kokyo
株式会社光響
住所：京都市下京区烏丸通四条下ル水銀屋町637番地 第5長谷ビル2階
Email : info@symphotony.com
TEL : 070 - 6925-5558
Web : https://www.symphotony.com/
FAX : 075 - 320 - 1604

LiBackpack C50

Mobile Handheld 3D Mapping System

GreenValley International

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Mobile Handheld 3D Mapping System

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

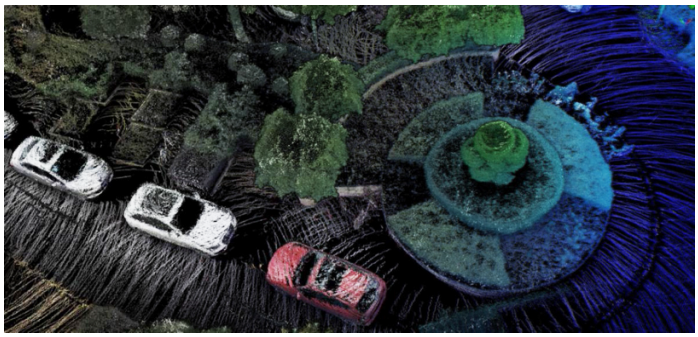
The LiBackpack C50 is functional in both handheld & backpack modes. The Backpack mode allows for a true hands-free experience while the Handheld mode offers a wider FOV.

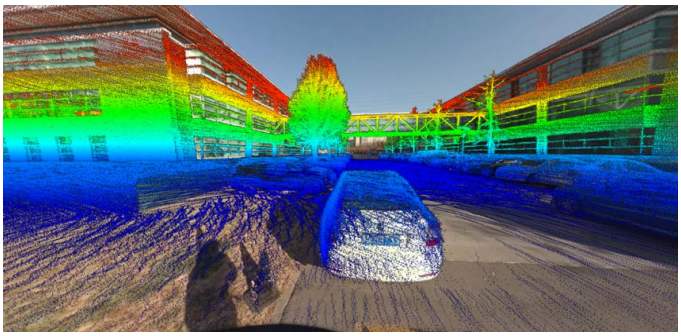
Real-Time Data Visualization

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	*~5cm*
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	*6.2kg*
Dimensions	*1038*270*147 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*