

株式会社 光響



GreenValley International

LIBACKPACK

Wearable LiDAR Scanning System

Quickly capture high-accuracy 3D point clouds and panoramic imagery with LiBackpack. Survey and map indoor as well as outdoor spaces with ease. Accelerate you LiDAR data capture with LiBackpack from GreenValley International.



LiBackpack DGC50

Stable Performance Accurate Positioning Lightweight and Portable



LiBackpack C50 Visible Light Data Affordable and Easy to Use 3 cm Relative Accuracy and 300,000 p/sec

Specifications

		DGC50	C50			DGC50	C50
System	Weight (incl. camera)	8.6kg	7.1kg	GNSS Module	Channels	GPS: L1 C/A, L1C,	, N/A
	Relative Accuracy	3cm	3cm			GLONASS: L1, C/A,	
	Absolute Accuracy	5-10cm	N/A			L2C, L2P, L3, L5 BEIDOU: B1. B2	
	Power Consumption	50W	40W		Accuracy	1cm+1ppm	N/A
Lidar	LiDAR Sensors	2	1	Working Mode		Backpack	Backpack+Handheld
	Num of Channels	16 channels	16 channels	Camera	Perclution	3840*1020	3840*1020
	Scan Range	100m@20%reflectance	100m@20%reflectance		Resolution	3040 1920	5040 1920
					Frame Rate	30	30
	FOV (degree)	Vertical(-90~90) Horizontal 360	Vertical(-15~15) Horizontal 360		FOV (degree)	360	360
	Scan Rate (single return)	600,000 p/sec	300,000 p/sec		Pixel	18 MP	18 MP



Easy to Carry

Lightweight structure and cushioning make the LiBackpack comfortable to use.



User-friendly Data Processing

LiFuser-BP makes working with LiBackpack data quick and painless with its one-click workflows.



Real-Time Point Cloud Display

Control data collection via any WiFi enabled device and watch point clouds render in real-time from your tablet or smartphone.



Capture Reality in 3D

Gather and colorize high-fidelity LiDAR measurements at a rate of 600,000 p/sec to produce point cloud data with densities over 1,000 point per square meter.



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LiFuser-BP Data Processing Software



Fuser-BP is built to process, visualize, edit, and refine data collected with GreenValley International's LiBackpack. Its integrated functions also allow users to perform GNSS data corrections, optimize SLAM-based point cloud compilation routines, fuse 2D panoramic images to point clouds, clean and align 3D data sets, and asses absolute accuracies using survey check point data.

This flexible software solution from GreenValley International features specialized modes for processing data collected in outdoor, indoor, as well as a diverse set of other survey environments.



The Application Case



Forest Surveying and Mapping



Land Surveying



Volume Measurement



Outdoor Scanning



Underground Garage Scanning



BIM



Powerline Surveying

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