e-survey

eHLS2

HANDHELD LIDAR SCANNER

The eSurvey eHLS2 is a new portable handheld LiDAR scanner designed and manufactured by eSurvey GNSS experts. It is flexible and easy to operate. Powered by an industry-leading SLAM algorithm, eHLS2 can acquire point cloud data for both indoors and outdoors with high accuracy. High-definition colorized point cloud can also be acquired with the external camera. With an optional GNSS module, eHLS2 acquires a more accurate point cloud integrated with GNSS location.

LiDAR

Reliable High Accuracy

With the industry-leading SLAM accuracy, eHLS2 can acquire high-accuracy 3D point cloud data stably.

Support for radio mode

Will be adapted to the E300 Pro and E800 and other receivers, unlimited working environment.

High-definition Colorized Point Color

With the 6K resolution camera, the features of objects within the point cloud are displayed more clearly.

Hot-swappable Dual Batteries

The hot-swappable dual batteries effectively prolong the working time of the eHLS2.

Versatility and Flexibility

Suitable for indoor, outdoor, underground, and even some demanding environments.

Multi-platform Supported

eHLS2 can be expandable to multiple platforms, including a backpack, vehicle, intelligent robot, etc.

Website

Social media

Product Specification

eHLS2

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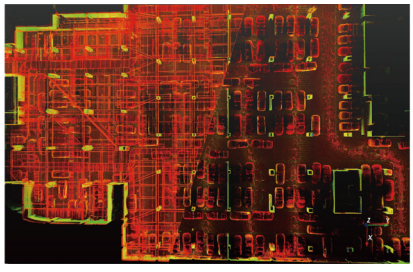
	Standard		Professional		
Range	120 m		120 m		300m
LiDAR channels	16	32	16	32	32
Points per second	320,000	640,000	320,000	640,000	640,000
FOV	360°X270°				
Laser product classification	Level 1				

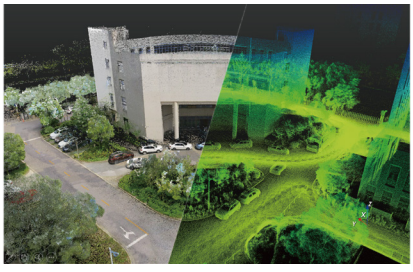
Laser wavelength	905nm
Relative accuracy	1cm
Absolute accuracy	3cm / Horizontal: 1.8cm Vertical: 2.5cm
Point cloud thickness	1cm (no filter)
Repetition Accuracy	2 cm (Accuracy of the results of two repeated scans)
Data format	LAS, LAZ
Panoramic camera	2 lens, 360°
Resolution	6K panoramic

Dimension	Handheld: 190 mm x 90 mm x 395 mm (with camera) Processing unit: 145 mm x 53 mm x 223 mm
Weight	Handheld: 2.15 kg (with camera) Processing unit: 1.2 kg (without battery)
Battery	DC 14.4V
Working time	3h (hot-swappable dual batteries)
Storage	1T
Working environment	Indoor and outdoor

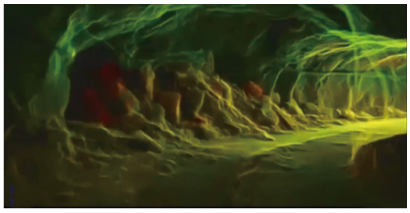


Garage

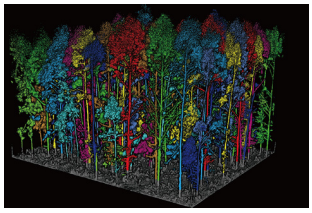
Garden



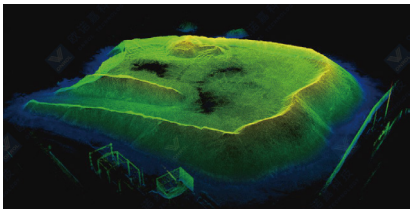
Architecture



Mine tunnel



Forestry



Volume calcuation

Note:The sample point cloud data displayed in datasheet are acquired by eHLS2 Standard version with 32 LiDAR channels.

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