

SPECIFICATIONS

System Parameters	
Dimensions	204(L) x 130(W) x 385(H) mm
Handheld Weight	1.74 kg (including GCP base)
Voltage	15.2 V
Ingress Protection	IP54
Communication Interfaces	Wireless LAN, USB, Ethernet
Battery Pack Dimensions	134(L) x 64.6(W) x 167(H) mm
Battery Capacity	5870 mAh
Internal Storage	256 GB
Maximum Continuous Observation Time	30 mins / Run
Battery Operation Time	4 hours / 1pce
Relative Accuracy	≤1 cm
Absolute Accuracy	≤5 cm

System Requirements

D-H100 Field (Tablet)	
OS	Android 8 or more
RAM	6 GB or more

Standard Components

- D-H100
- GCP base
- Battery Case
- Battery
- Battery Case Cover
- Battery Charger
- LAN Cable
- Charging Cable
- USB Cable
- USB Memory
- Strap
- Carrying case
- Quick Start Manual
- Instruction Manual
- D-H100 Field (Tablet Application) *Tablet not included.
- LiDAR360MLS (PC Application)
- MicroSD Card



LiDAR Sensor Parameters	
Scan Rate	320,000 pts/s
Range Accuracy	±3 cm
Detection Range	120 m
FOV	280° (Horizontal) x 360° (Vertical)
Laser Class	Class 1 (IEC60825-1 : 2014)
Camera Parameters	
Camera Type	360° panoramic lens combinations
Data Format	MP4 INSV
Image Resolution	6080×3040 (2 : 1)
Video Resolution	5760×2880 @ 30 fps
RTK Module (Optional Backpack Kit)	
Supported Constellations	GPS + BeiDou + Glonass + Galileo + QZSS. Support 5 satellites and 16 frequencies
Back Pack Weight	3.2 kg
RTK Accuracy	1 cm+1 ppm

LiDAR360MLS (PC)	
OS	Windows10/11 (64-bit)
CPU	Intel® Core™ i5 or i7 (8 cores / 16 threads, single-core performance of 4 GHz or higher)
RAM	16 GB or more
Storage	SSD with a transfer speed of 100 MB/s or higher
Graphics Card	NVIDIA GPU with 8 GB or more, VRAM and Compute Capability 5.0 or higher

Backpack Kit (Optional)

- Backpack
- GNSS Module
- GNSS Cable
- Quick Start Manual



Mobile Scanner D-H100

The D-H100 is a handheld mobile scanner that uses LiDAR SLAM technology allowing you to scan even in the most challenging environments.

*SLAM Technology: A modern technique that uses LiDAR Technology & Imagery Sensors that has been broadly adopted in surveying for fast and accurate mapping of complex environments.



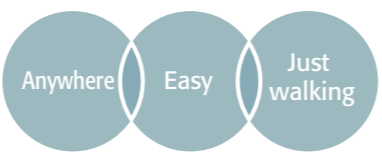
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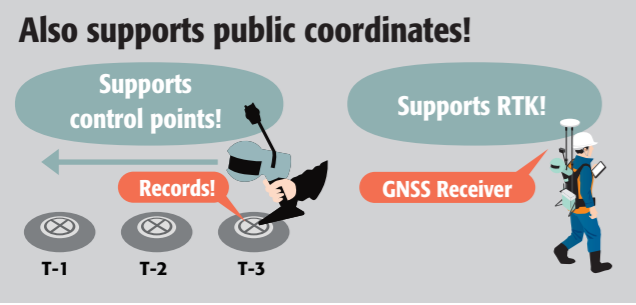
Your Local Authorized Dealer is:

Handy and quick scanning solution for any project!



An evolution in 3D measurement!

D-H100 comes with flexible line-up options that can be changed to suit your needs. Either used as a handheld scanner for detailed measurements or as a backpack scanner with GNSS for large scale mapping of wide and or complex areas in a short period of time. The fastest and easiest data acquisition in areas where terrestrial laser scanners and UAVs struggle!



Quick & Smart 3D Data Capture with SLAM Technology

Obtain detailed 3D data simply by walking through the site—even in narrow, complex, or hard-to-reach areas. With D-H100, you can quickly cover disaster sites, buildings, and structures where using traditional surveying is challenging. Choose the scanner model that fits your workflow: a handheld model for flexible mobility or a backpack model for large-area coverage. Both deliver accurate measurements across a wide range of applications. The captured 3D data helps you to visualize your sites, making the D-H100 an essential tool for construction planning, documentation, and design.

Use Case: This scanner can ascertain any and all current conditions in 3D.

Surveying

D-H100 can acquire data on current conditions in a variety of environments like: Forest, rivers, embankments, cities, parks, underground, tunnels, natural disaster sites, mines, and more.

Civil Engineering

Get a full understanding of your construction site with D-H100 in 3D. It offers a wide array of uses including site reconnaissance, initial surveys, progress management, temporary construction/construction planning, calculating volumes and more.

Building Construction

D-H100 can be used both indoors and outdoors, so it can be utilized for BIM, facilities, plants, 3D modeling, digital twins, and more.

Handheld Model Type

- Georeference** Matches the pointcloud to the Ground Control Points
- Advantage** Detailed Surveys



Backpack Type (optional)

- Georeference** GNSS
- Advantage** Large Scale Mapping

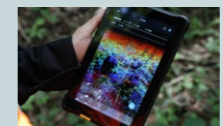


* When using RTK, a separate SIM card is required.

Compact LiDAR	Panoramic camera	SLAM system
<ul style="list-style-type: none">16-line scannerMaximum scanning range: 120m320,000 points per second	<ul style="list-style-type: none">5.7K resolution and 30-fps video enables accurate and precise color rendering	<ul style="list-style-type: none">A practical piece of kit, with combinations of not just SLAM-only, but also RTK-SLAM, PPK-SLAM, and GCP
Selectable measurement formats	Real-time display	SLAM analysis
<ul style="list-style-type: none">Handheld model typeBackpack type	<ul style="list-style-type: none">The Field Software allows visualizing the pointcloud data during data collection.	<ul style="list-style-type: none">Automated analysis using SLAM analysis software

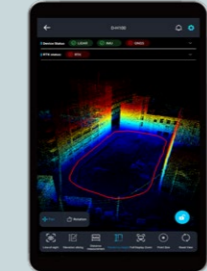
Dedicated field software

Display pointcloud in real-time. Supports your data collection with its intuitive operation.



D-H100 Field

Main configuration and data acquisition can all be done via a tablet.



- Project management
- Measurement configuration
- RTK configuration
- Record GCPs (ground control points)
- Check status
- Check gathered data
- Output data

Dedicated analysis software

Transform your walked path into a georeferenced trajectory using SLAM Analysis.



- Automated SLAM analysis
- RTK/PPK processing
- Adjust GCPs (ground control points)
- Color-code point groups (RGB)
- Dimension measurements
- Cross-section measurements
- Output data (LAS)