



HERON® MS TWIN Color

Portable 3D mapping system for **indoors** and **outdoors** surveying.

Double LiDAR sensor for robust real-time 3D acquisitions.

RGB hi-res panoramic camera for images collection

both in continuous and on-demand at 5K.

Indoors/outdoors 3D mapping, **complex and multi-floor buildings**,
geospatial projects, **digital twin** applications.

On-premise software for full data processing and point cloud editing.



HERON family

INDOOR/OUTDOOR

Wearable or handheld mobile laser scanner. Versatile and suitable for any environment.

Your unmatched SLAM-based solution!

AUTOMATIC

Turn on the system and start surveying. Just walk and let the scanner work for you.

Enjoy a professional system easy-to-use!

DIGITAL TWIN

3D point clouds and 5k pano images for immersive tours of your models.

The scanner you can no longer give up!

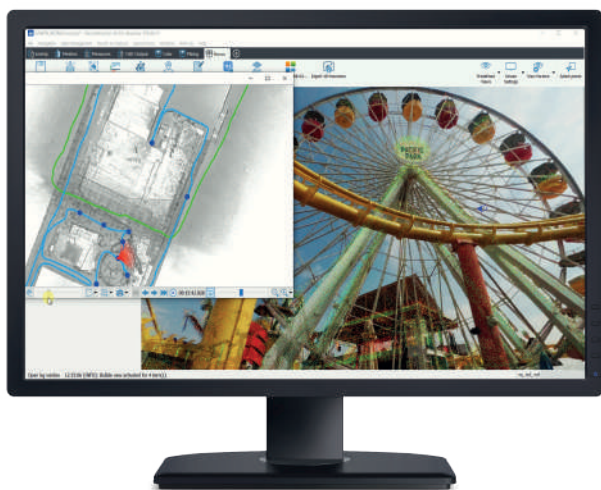
ALL-IN-ONE

Full post-processing software included. Third party compatibility provided.

A forefront technology at your fingertips!

USABILITY

- Automatic **RGB** data acquisition in high resolution and 5k on-demand for very detailed photos.
- Easy to use **without initialization** procedures.
- Optional use of **control points** or control scans **as constraints**.
- Patented algorithm: **free mapping path**. Loop closure not required.
- Wired rugged backpack both for acquisition and transport.
- Compact capture head dockable to **telescopic poles** to measure cavities and inaccessible areas.
- Measurements **by vehicles** (cars, bikes, quads, etc.).
- Rugged and powerful touch screen Control Unit.
- **Real-time visualization** of pictures and point cloud generated during the acquisition.
- Designed to work in **extreme environments**.
- Accessories for a very flexible user experience.



DATA PROCESSING

- **Accurate 3D models** also in complex environments.
- **Automatic color mapping**.
- Advanced mode for **full professional control** of the SLAM algorithm parameters.
- Point cloud editing software.
- Very dense point cloud rendering with multiple colour layers and **3D virtual tours**.
- **Direct export** of 3D data to **ReCap**, E57, LAS and the main formats of point clouds.
- Easy data export to **third-party software** (e.g. 3DM Feature Extraction, EdgeWise, Micromine, Scene, Verity).
- Sharing in E57 on **cloud platforms** (e.g. 3DM Cloud, 3DUserNet VISION, Cintoo Cloud, Scene Webshare).
- Advanced point cloud rendering which emphasizes **features and details**.
- Tracking mode for **real-time change detection** tasks.

APPLICATIONS

Indoors / Outdoors Mapping

Multi-floor Buildings

Cadastral Survey

Urban Areas

Multi-sensor Projects

Large, Complex, Harsh Environments

Cultural Heritage

BIM Models

Tunnels

Real Estate Assets Management

Digital Twin / Immersive Tour

Support to Design

Plants and Elevations of Buildings

Forests and Gardens

Progress Monitoring in Construction Sites

Forensic

As-Built Digital Documentation

Volumes Computations

INCLUDED SOFTWARE

What you need to create and navigate 3D models and share results



HERON Desktop®

Post-processing SLAM software

Software to extract 3D point cloud models from HERON measurements with: patented SLAM algorithm; time bar to organise processing as desired; filtering of moving objects. Advanced mode for total control of SLAM algorithm parameters. Use of scans and control points as constraints.



Reconstructor®

Advanced 3D point cloud analysis software

Professional software for advanced point cloud management and editing. Data processing from HERON or from terrestrial/mobile/UAV laser sensors. Powerful automatic and target-less scans alignment. Data export to ReCap, E57 and various standard formats. Full compatibility with various third-party software and cloud platforms. RGB camera calibration, HERON survey navigation, mesh and DTM generation, volume computation, sections and profiles.



GoBlueprint®

Blueprint map manager

Intuitive visualiser of scaled x-ray images (orthophotos of the cloud of 2.5D points), designed to easily extract measurements (volumes, distances, areas) even by non-3D specialist users. Compatible with any Windows tablet or PC. Free tool.



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Scan for Tech Sheet

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