



web page

HERON[®]

MS TWIN

All-in-one system
On-premise software included
No need for extra-cost remote processing

- **Compact capture head**
- **Double lidar sensor**
- **Short / Long range**
- **Highly versatile use**

32 CHANNELS LIDAR SENSORS

120 | 300 m Max Range

PDA CONTROL UNIT

Wi-Fi connection to the Controller.
User-friendly interface.
Advanced acquisition of control points.
Usable in the pocket too.



SMART CONTROLLER

- Remotely driven by PDA via Wi-Fi.
- Lightweight (only 1085 g), compact, and detachable for flex configurations.
- Data storage on USB stick for privacy protection.
- Internal battery + "Plug&Go" extra batteries for non-stop acquisitions.



INSIDE THE R WIRE RUGGED BACKPACK



WEARABLE OVER THE SHOULDER*



ATTACHED TO THE ULTRA THIN PLATE*

*Accessories available on request

USABILITY

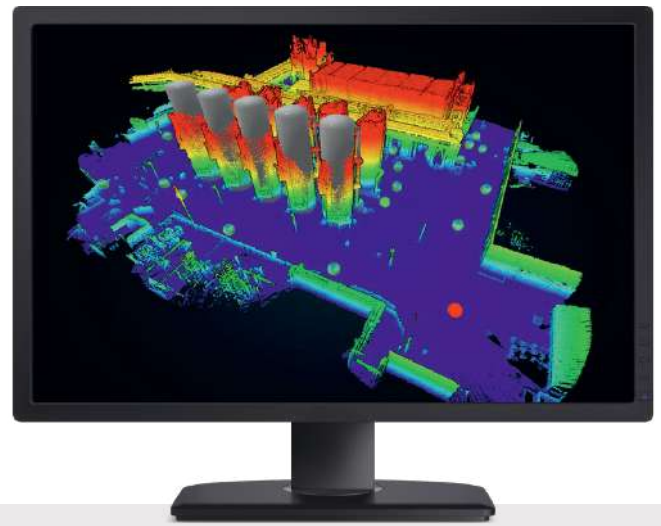
- **No initialization** and **calibration** procedures.
- **Control points** or control scans used **as constraints**.
- **Free mapping path** (patented algorithm).
- Loop closure not required.
- Wired rugged backpack for acquisition and transport.
- Compact capture head dockable to:
 - **telescopic poles** to measure cavities and inaccessible areas (also upside down).
 - **vehicles** (cars, bikes, quads, robots, etc.).
- Rugged and powerful touch screen control unit.
- **Real-time visualization** of point clouds generated during the acquisition.
- Designed to work in **extreme environments**.
- Accessories for a very flexible use.

DATA PROCESSING

- **Accurate 3D models** also in complex environments.
- **Full professional control** of SLAM algorithm parameters.
- Point cloud editing software.
- Very dense point cloud rendering with multiple colour layers.
- **Direct export** of 3D data to **ReCap, Geo-Plus, Cintoo, OrbitGT, E57, LAS** and 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.
- Advanced point cloud rendering which emphasizes **features and details**.

APPLICATIONS

- Underground and Open Pit Mines
- BIM Models
- Indoors / Outdoors Mapping
- Volumes Computations
- Large, Complex, Harsh Environments
- Urban Areas
- Cadastral Survey
- Multi-sensor Projects
- Tunnels
- Forensic
- Construction Sites Progress Monitoring
- Multi-floor Buildings
- Forests and Gardens
- Cultural Heritage
- Real Estate Assets
- As-Built



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 acquisitions. It contains patented SLAM algorithms; time bar to organise your processing as desired; filter of moving objects, and more. Advanced mode for the total control of SLAM algorithms' parameters. Use of control points and control scans 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 viewer of scaled X-ray images, designed to easily extract measures (volumes, distances, areas) even by users not skilled in 3D. Compatible with any Windows-based tablet/PC. Free tool designed to be provided to end customers for convenient output management.

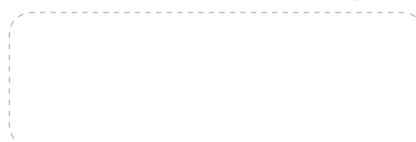
HERON is developed under a licence of the European Commission Joint Research Centre



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