web page

HERON®
LITE

Professional 3D mapping system.
Desktop software included.
Full control of SLAM parameters.
No extra fees for data processing.

- **Compact capture head**
- **Remarkable accuracy**
- **Non-rotating LiDAR for the best performance even in harsh conditions**

32-CHANNEL LiDAR SENSOR
120 | 300 m Max Range

PDA CONTROL UNIT
Wi-Fi connection to the Controller.
User-friendly interface.
Advanced acquisition of control points.
Real-time visualization.
Usable in the pocket too.


INSIDE THE WIRED RUGGED BACKPACK*


WEARABLE OVER THE SHOULDER


ATTACHED TO THE ULTRA THIN PLATE*

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 + swappable extra batteries for non-stop acquisitions.
- Rugged design available.

**Accessories available on request*

USABILITY

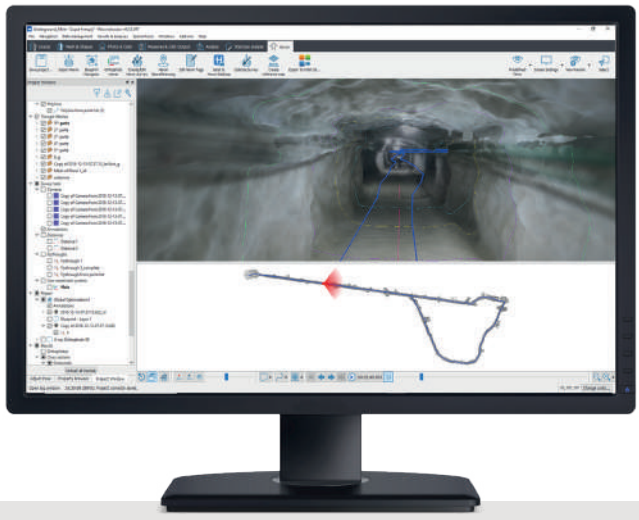
- **No initialization** and **calibration** procedures.
- **Control points** or control scans used **as constraints**.
- **Free mapping path** (patented algorithm).
- Loop closure not required.
- Compact capture head dockable to:
  - **backpacks**: ultra slim or wired and rugged
  - **telescopic poles** up to 15 metres: for capturing cavities and inaccessible areas, even upside down.
  - **vehicles**: cars, bikes, quads, robots, etc.
- Rugged PDA Pro control unit (*soon available*).
- **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 point clouds and 2D maps in open formats and CAD platforms: LAS, E57 with images, **ReCap**, **AutoCAD**.
- Easy data export to **third-party software** (e.g. EdgeWise, Verity, Micromine, FARO Scene).
- Data sharing on **cloud platforms**: AtisCloud, Benaco, Cintoo Cloud, FARO Webshare, Geo-Plus, Topcon Collage Web.
- Advanced point cloud rendering which emphasizes **features and details**.

APPLICATIONS

Underground and Open Pit Mines | As-Built | Tunnels | Forests and Gardens | Urban Areas | Indoors / Outdoors Mapping | Geospatial | BIM Models | Security / Defense | Forensic | Volume Computation | Multi-sensor Projects | Construction Sites Progress Monitoring | Cultural Heritage | Cadastral Survey



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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