web page

# HERON® LITE

All-in-one professional SLAM system to meet applications in the most demanding 3D surveying projects.

- **Compact capture head**
- **Short / Long range sensor**
- **Non-rotating lidar for the best performance even in harsh conditions**

**32 CHANNELS LIDAR SENSOR**
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 WIRED RUGGED BACKPACK*

WEARABLE OVER THE SHOULDER

ATTACHED TO THE ULTRA THIN PLATE*

*Accessories available on request

## USABILITY

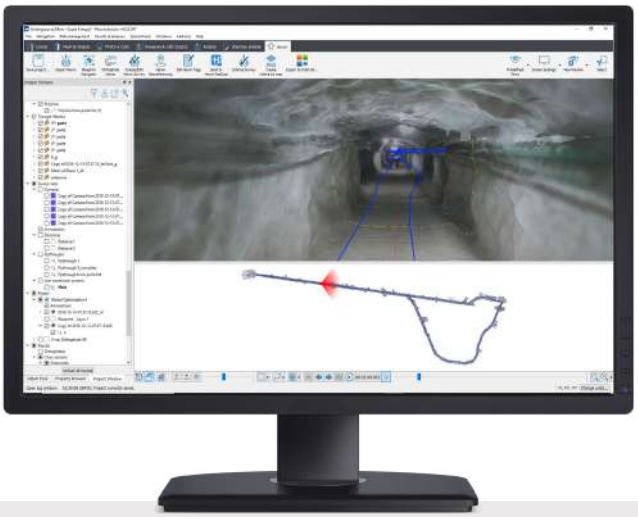
- **No initialization** and **calibration** procedures.
- **Control points** or control scans used **as constraints**.
- **Free mapping path** (patented algorithm).
- Loop closure not required.
- Compact capture head dockable to:
  - ultra slim or wired rugged **backpack**.
  - **telescopic poles** to measure cavities and inaccessible areas (also upside down).
  - **vehicles** (cars, bikes, quads, robots, etc.).
- Rugged and powerful touchscreen 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**.

## 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*

GEXCEL
GEOMATICS & EXCELLENCE

Gexcel Srl | Brescia (Italy)
www.gexcel.it | sales@gexcel.it

Dealer's Contact