



web page

HERON[®]

LITE Color

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

- **Compact capture head**
- **Remarkable accuracy**
- **Exceptional photo quality**
- **High versatility**

360° RGB CAMERA (MG1)

Engineered by Gexcel

8K Shots | 4K Streaming | 4-Lens

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.

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*



INSIDE THE WIRED
RUGGED BACKPACK*



WEARABLE OVER
THE SHOULDER



ATTACHED TO THE
ULTRA THIN PLATE*

USABILITY

- **RGB** streaming videos and 8K single-shot images.
- **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.
- **Automatic color mapping**.
- **Full professional control** of SLAM algorithm parameters.
- Point cloud editing software.
- Very dense point cloud rendering with multiple colour layers and **3D virtual tours at 8K**.
- **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

Cultural Heritage Indoors / Outdoors Mapping

Digital Twin / Immersive Tour Urban Areas

Multi-sensor Projects Real Estate Assets

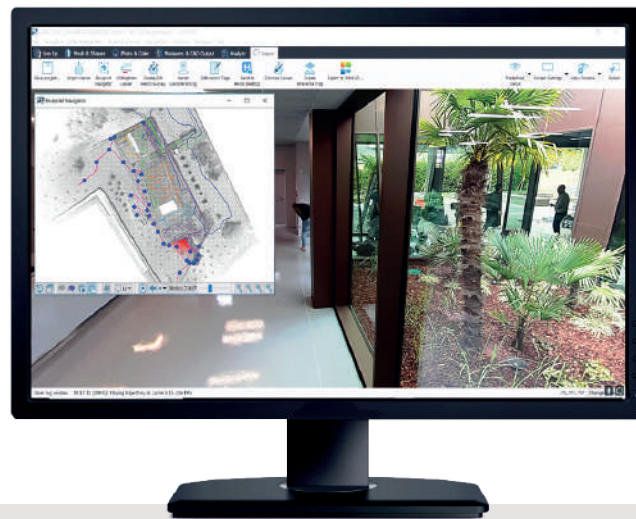
BIM Models Forests and Gardens As-Built

Underground and Open Pit Mines Forensic

Construction Sites Progress Monitoring

Security / Defense Cadastral Survey

Volume Computation Tunnels Geospatial



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.

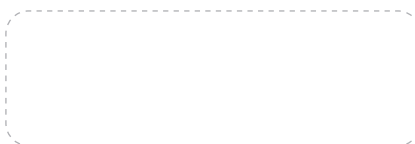
HERON is developed under a licence of the European Commission Joint Research Centre



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Dealer's Contact



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