



web page

HERON[®]

MS TWIN 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**

RGB PANORAMIC CAMERA (MG1)

Engineered by Gexcel

8K Shots | 4K Streaming | 4-Lens

32-CHANNEL LiDAR SENSORS

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.



INSIDE THE WIRED RUGGED BACKPACK



WEARABLE OVER THE SHOULDER*



ATTACHED TO THE ULTRA THIN PLATE*

*Accessories available on request

USABILITY

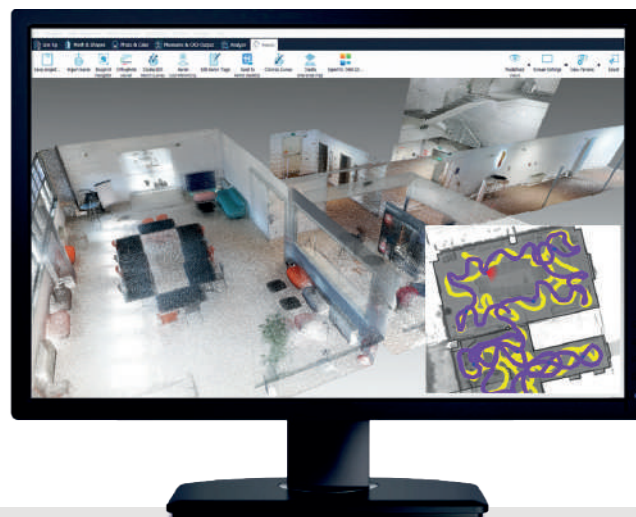
- **RGB** streaming videos and 8K single-shot images.
- **No initialization** and **calibration** procedures.
- **Control points** or control scans used **as constraints**.
- **Free mapping path** (patented algorithm).
- Loop closure not required.
- Wired rugged backpack for acquisition and transport.
- Compact capture head dockable to:
 - **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, Cinto Cloud, FARO Webshare, Geo-Plus, Topcon Collage Web.
- Advanced point cloud rendering which emphasizes **features and details**.
- **Real-time change detection** (*soon available*).

APPLICATIONS

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



INCLUDED SOFTWARE

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



Dealer's Contact



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