



# **HERON**<sup>®</sup> 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 (**1085 g only**), 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\*



MOUNTED ON ROBOTS & ROVERS

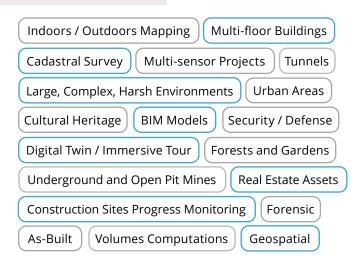
## USABILITY

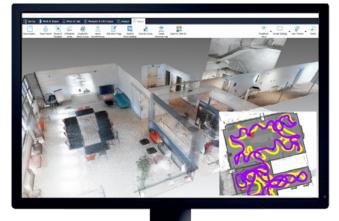
- **RGB** streaming videos and 8K single-shot images.
- No initialization and calibration procedures.
- Control points or control scans used as constraints.
- Free mapping path (patented algorithm).
- Loop closure not required.
- Wired rugged backpack for acquisition and transport.
- Compact capture head dockable to:
  telescopic poles: for capturing cavities and inaccessible areas, even upside down.
- vehicles: cars, bikes, rovers, robots, etc.
- Rugged PDA Pro control unit.
- **Real-time visualization** of point clouds generated during the acquisition.
- Designed to work in **extreme conditions**.
- Many accessories for very flexible use.

## **DATA PROCESSING**

- Accurate 3D models.
- 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, Surpac, TopoDOT).
- Data sharing on **cloud platforms**: Atis.cloud, Benaco, Cintoo Cloud, Geo-Plus, Topcon Collage Web.
- Advanced point cloud rendering which emphasizes **features and details**.
- Real-time change detection.

## **APPLICATIONS**







## **DESKTOP SOFTWARE INCLUDED**

Create . Navigate . Share



HERON Desktop<sup>®</sup> SLAM data post-processing

Software to convert HERON data into high-quality 3D point clouds. 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**<sup>®</sup> Advanced 3D point clouds analysis

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.

6	0
	5

GoBlueprint<sup>®</sup> Manager of blueprint maps

Intuitive viewer of scaled X-ray images, designed to easily extract measurements (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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