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 (**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

*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.
- Compact capture head dockable to:
  - **backpacks**: ultra slim or wired and rugged.
  - **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**.

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

GEXCEL
GEOMATICS & EXCELLENCE

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

DESKTOP SOFTWARE INCLUDED

Create . Navigate . Share

HERON Desktop®
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®
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.

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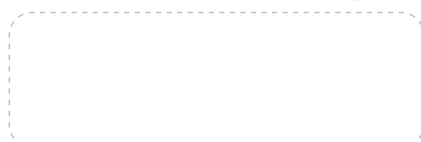
HERON is developed under a licence of the European Commission Joint Research Centre

Dealer's Contact