



web page

HERON[®] LITE Color

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

- **Compact capture head**
- **Short / Long range sensor**
- **8K pano camera**
- **Highly versatile use**

360° RGB CAMERA (MG1)

Engineered by Gexcel

4 Lenses | 4K Streaming | 8K Shots

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.

**Accessories available on request*



INSIDE THE WIRED RUGGED BACKPACK*



WEARABLE OVER THE SHOULDER



ATTACHED TO THE ULTRA THIN PLATE*

USABILITY

- **RGB** videos and 8K pictures.
- **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.
- **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 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

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.

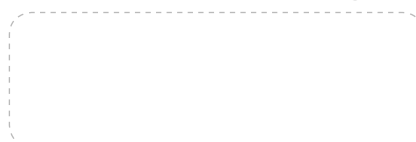
HERON is developed under a licence of the European Commission Joint Research Centre



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



Dealer's Contact



© Gexcel. All rights reserved.

HERON, Reconstructor, and GoBlueprint are Gexcel trademarks. Gexcel is not affiliated with any of third-party software listed on these pages. This document is intended for informational purposes only. Gexcel maintains the right to make changes to specifications and other information in this document at any time without prior notice.