USABILITY

- **RGB** streaming video and **8K** single-shot images.
- No initialization or calibration required.
- Use of control points or control scans as constraints.
- Free-path mapping (patented algorithm).
- No need for loop closure.
- Rugged wired backpack for acquisition and transport.
- Compact capture head dockable to:
- wired and rugged backpack;
- ultra-slim **backplate**:
- telescopic poles (various lengths up to 15 m) for scanning cavities and hard-to-reach areas, even upside-down:
- mobile units: cars, robots, rovers, drones. overhead cranes, etc.
- Real-time point cloud visualization during the acquisition.
- Designed for harsh environments.
- Wide range of accessories for maximum flexibility.

DATA PROCESSING

- High-accuracy 3D models also in complex environments.
- Automatic color mapping.
- Full professional control over SLAM parameters.
- Point cloud editing software included.
- High-density point cloud rendering with multilayer coloring.
- 3D virtual tours in 8K.
- **Direct export** of 3D point clouds and 2D maps in open formats and CAD platforms: LAS, E57 with images, ReCap, AutoCAD.
- Easy export to **third-party software** (e.g. EdgeWise, Verity, Micromine, Surpac, TopoDOT).
- Data sharing on **cloud platforms** (e.g. Atis.cloud, Benaco, Cintoo Cloud, Geo-Plus, Topcon Collage Web)
- Advanced point cloud rendering for features highlighting and **details** emphasis.
- · Real-time change detection.

INCLUDED SOFTWARE

HERON Desktop

SLAM data post-processing

Create . Navigate . Share

Convert HERON data into high-quality 3D point clouds. Fast, accurate, and fully under your control.

Includes:

- Patented SLAM algorithms.
- Time bar for process organization.
- Moving object filtering
- Full control over SLAM parameters.
- Use of control points and control scans as constraints.



Reconstructor

Advanced 3D point cloud analysis

Professional software for point cloud editing and management.

Kev features:

- Works with HERON, terrestrial. mobile, and UAV sensors.
- Automatic target-less scan alignment.
- Export to ReCap, E57, and standard formats.
- Third-party software and cloud platforms compatibility.
- RGB camera calibration.
- · HERON survey navigation.
- Mesh and DTM generation, volume calculation, profiles and sections extraction.



SOFTWARE STRENGTHS:

• 100% local processing — no cloud

No extra fee for data processing

Full SLAM parameter control

GoBlueprint free tool Blueprint map management

An intuitive viewer for scaled X-ray images, enabling easy measurement extraction (volumes, distances, areas) by non-expert users.

- Compatible with Windows tablets/PCs.
- Ideal for smooth results sharing and management by final clients.









RING LED LIGHT color acquisition in dark environments



CAR MOUNT mobile mapping configuration



CENTERING TIP ceiling control points acquisition



TELESCOPIC POLES GCPs acquisition, cavities and more

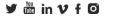




GNSS outdoor 3D mapping and positioning



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OFFICIAL RESELLER

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HERON

SMART REALITY CAPTURE

for unlimited 3D mapping





HERON[®]

Professional SLAM Systems

- Indoor/outdoor acquisition
- Underground and complex fields
- Desktop software included
- Full SLAM parameters control
- No extra cost for data processing

DEVELOP DESIGN PRODUCTION

MADE IN ITALY BY GEXCEL



360° 4-lens

Compact capture head

Remarkable accuracy **Exceptional photo quality**

High versatility

single

8K

double

32 chs

120 m

300 m

Designed for large and complex fields

PANO CAMERA GEXCEL MG1

Engineered by GEXCEL

- 8K photos
- 4K live streaming
- Equirectangular panoramic images with minimal distortion
- **Ultra-compact** (70.5 x 70.5 x 82.5 mm)
- Smooth video capture
- Automatic processing

LIDAR SENSOR

Tailored performance



MS TWIN | MS TWIN Color

DOUBLE LIDAR SENSOR



LITE | LITE Color

SINGLE LIDAR SENSOR

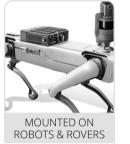
Ideal for confined spaces and frequent sites' updates

SYSTEM CONTROLLER

Smart . Powerful . Lightweight . Versatile









- Lightweight 1.085 g only
- Remotely operated via PDA over Wi-Fi
- Compact and detachable for flex configurations
- USB stick data storage for privacy protection
- Internal battery
- Extra swappable batteries for continuous acquisition
- Rugged variant for harsh environments

CONTROL UNIT

Reality capture and more

PDA

- Wi-Fi connection to the controller
- User-friendly interface
- Advanced acquisition of control points
- Real-time point cloud visualization
- Pocket-sized usability



PDA Pro

- Enhanced trajectory visualization
- Automatic localization
- Real-time change detection
- Advanced tagging capabilities
- Rugged design