HERON® MS TWIN Color

Complete and versatile portable 3D mapping system.
Double LiDAR sensor for robust 3D geometry acquisitions.
Hi-Res RGB panoramic camera working **in continuous and on-demand** at 5k.
Key applications: **indoors/outdoors**, complex and **multi-level** buildings,
geospatial and **digital twin** projects.
On-premise software packages for full data processing.

HERON family

INDOOR/OUTDOOR

Wearable or handheld mobile laser scanner. Versatile and suitable for any environment.

Your unmatched SLAM-based solution!

AUTOMATIC

Turn on the system and start surveying. Just walk and let the scanner work for you.

Enjoy a professional system easy-to-use!

DIGITAL TWIN

3D point clouds and 5k pano images for immersive tours of your models.

The scanner you can no longer give up!

ALL-IN-ONE

Full software included. Complete data processing and managing of measurements.

A forefront technology at your fingertips!

| www.gexcel.it | sales@gexcel.it
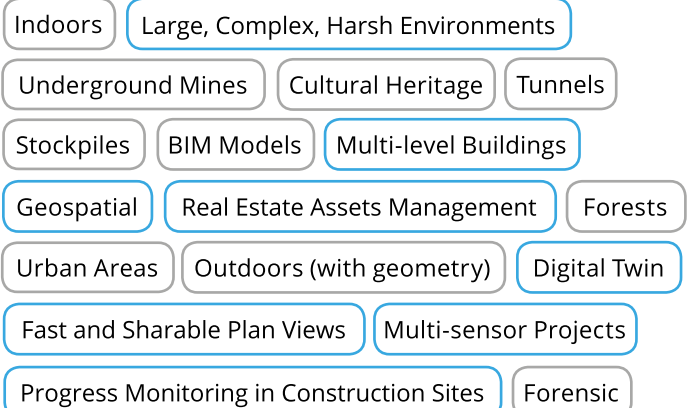
GEXCEL GEOMATICS & EXCELLENCE

USABILITY

- **RGB** data acquisition: automatic and on-demand at 5K for very detailed images only if requested
- Easy geo-referencing procedure
- **Control points** and scans used **as constraints**.
- Loop closure and **initialization not required**.
- Wired rugged backpack usable for acquisition and transport
- **Versatile capture head** dockable also to telescopic poles or vehicles (cars, bikes, quads, etc.)
- Rugged touch screen Control Unit providing:
  - Full system control
  - Annotations
  - Real-time view of the point cloud generation and the acquired panoramic images
  - Hands-free configuration

DATA PROCESSING

- **Accurate 3D colorized models** also in complex environments
- **Automatic mapping of color** data on 3D model
- **Very dense point cloud rendering** with multiple color layers
- Direct export of images and 3D data to **ReCap Pro**
- Easy data export to third-party software (e.g. 3DM Feature Extraction, EdgeWise, Micromine, Scene, Verity) and **cloud platforms** (e.g. 3DM Cloud, 3DUserNetVISION, Cintoo Cloud, Scene Webshare) through the .e57 format
- Advanced point cloud rendering which emphasizes **features and details**
- **3D models navigation** tools
- Tracking mode for **change detection** applications

APPLICATIONS

| Indoors | Large, Complex, Harsh Environments |

Underground Mines | Cultural Heritage | Tunnels

Stockpiles | BIM Models | Multi-level Buildings

Geospatial | Real Estate Assets Management | Forests

Urban Areas | Outdoors (with geometry) | Digital Twin

Fast and Sharable Plan Views | Multi-sensor Projects

Progress Monitoring in Construction Sites | Forensic

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 measurements with: patented SLAM algorithm; time bar to organise processing as desired; filtering of moving objects. Advanced mode for total control of SLAM algorithm parameters. Use of scans and control points 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 visualiser of scaled x-ray images (orthophotos of the cloud of 2.5D points), designed to easily extract measurements (volumes, distances, areas) even by non-3D specialist users. Compatible with any Windows tablet or PC. Free tool.

GEXCEL
GEOMATICS & EXCELLENCE

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