



HERON[®] MS TWIN Color

HERON MS TWIN Color is a portable 3D mapping system featuring a double laser sensor for robust 3D geometry acquisition, and an RGB hi-res panoramic camera for images collection both in continuous and on-demand at 5K. It works in complex and multi-level buildings, and supports geospatial and digital twin applications. It is provided with a complete software package to manage the entire data processing workflow.



3.70 m

9.56 m



— 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 leave the scanner working for you.

Enjoy a professional system easy-to-use!

COMPLETE DATA

3D point clouds and 5k pano images to gather both geometry and color information at once.

The scanner you can no longer give up!

ALL-IN-ONE

Full post-processing software included. Third-party compatibility provided.

A forefront technology at your fingertips!

USABILITY

- RGB data acquisition: automatic and on-demand at 5K for very detailed images only if requested.
- Easy geo-referencing procedure.
- Loop closure and initialization procedure not required.
- Light rugged backpack usable for transportation and acquisition.
- Capture head dockable also to a pole or vehicles like cars, bikes, quads...
- Rugged touch screen Control Unit that also provides:
 - 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 (like 3DM Feature Extraction, EdgeWise, Micromine, Scene, Verity) and cloud platforms (e.g. 3DM Cloud, 3DUserNet, 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
- Stockpiles
- BIM Models
- Tunnels
- Underground Mines
- Multi-level Buildings
- Large, Complex, Harsh Environments
- Cultural Heritage
- 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

To manage HERON raw data and automatically get accurate 3D point cloud models using a patented SLAM algorithm; split and merge survey trajectories and filter moving objects. Advanced mode to customize SLAM parameters. Use of GNSS coordinates for geolocalization.



Reconstructor®

Advanced 3D point cloud analysis software

Complete post-processing workflow for data from HERON or tripod/handheld/mobile sensors and UAV 3D point clouds. Powerful automatic target-less scans registration. Data export in several standard formats. Full compatibility with several third-party software and cloud platforms. Point cloud editing, color camera calibration, mesh and DTM generation, volume/cut&fill volume calculations, cross-sections and profiles extraction.



GoBlueprint®

Free tool for 2.5D maps

A user-friendly viewer of X-ray 2.5D scaled images (obtained with Reconstructor), designed to quickly share models with final clients letting them easily measure distances, areas, volumes. It runs on any Windows-based tablet or pc.



HERON is designed in collaboration with the *European Commission Joint Research Centre*. HERON, Reconstructor, GoBlueprint are Gexcel trademarks. All rights reserved. Third-party software included in these pages are trademarks. All rights reserved to the companies that own the software. Gexcel is not affiliated with any of third-party software listed on these pages.

