



HERON[®] LITE

HERON LITE is a handheld 3D mapping system composed of a laser sensor for fast 3D mapping activities, gathering real-time 3D LiDAR data including distances and calibrated reflectivity measurements. Particularly appreciated in stockpile volumetric computation, underground mines and when RGB information is not required. HERON LITE is provided with a complete software package to manage the entire data processing workflow.



— 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

- Easy use of control points.
- Loop closure and initialization procedure not required.
- Hand-held design.
- Capture head dockable also to a light rugged backpack 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 models.
- Point cloud rendering with multiple color layers.
- Direct export of 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, 3DUserNet, Cintoo Cloud, Scene Webshare) through the .e57 format.
- Advanced point cloud rendering which emphasizes features and details.
- 3D models navigation tools.



APPLICATIONS

- Indoors
- Stockpiles
- Single Floor Acquisition
- Cadastral Survey
- BIM Models
- Multi-sensor Projects
- Underground Mines
- Tunnels
- Digital Twin
- Geospatial
- Forensic
- Outdoors (with geometry)
- Urban Areas
- Fast and sharable Plan Views
- Forests

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.

