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Sat-LiDAR

Point Cloud Data Processing Software

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Sat-LiDAR provides a comprehensive and user-friendly solution for managing and processing airborne and mobile SLAM data. The software delivers high-precision, high-quality results through an automated workflow, enhanced visualization, and advanced engineering tools.



One Platform for All LiDAR Workflows



Apus-MX



Apus



Cygnus Lite



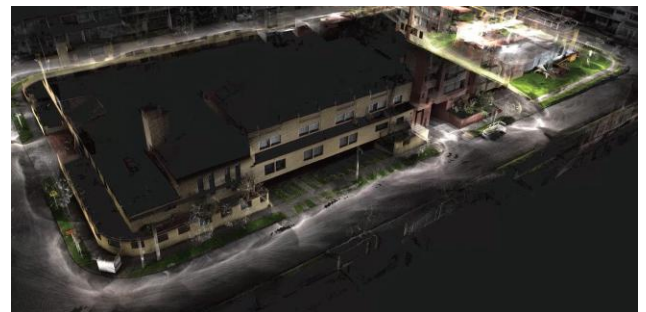
SL9 SLAM RTK

Applications

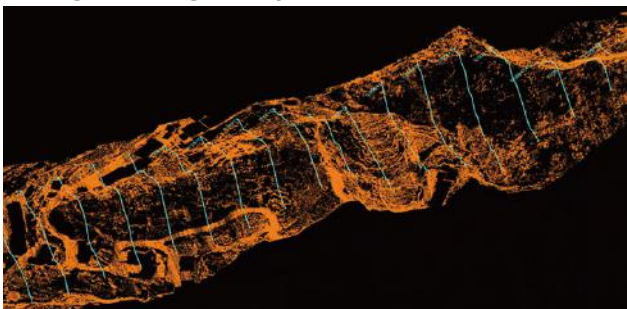
- Airborne Mapping



- Mobile SLAM Mapping



- Engineering Analysis



- 3DGS Visualization



Key Features



Airborne Module

— For Apus Series Data Processing

NEW DOM Orthophoto Generation

Supports Fast Mode for one-click DOM generation and Professional Mode with adjustable imaging parameters, producing high-quality orthophotos for mapping, inspection, and comprehensive project deliverables.

Point Cloud Optimization

One-click strip adjustment and refined point cloud optimization.

Quality Checks & Reports

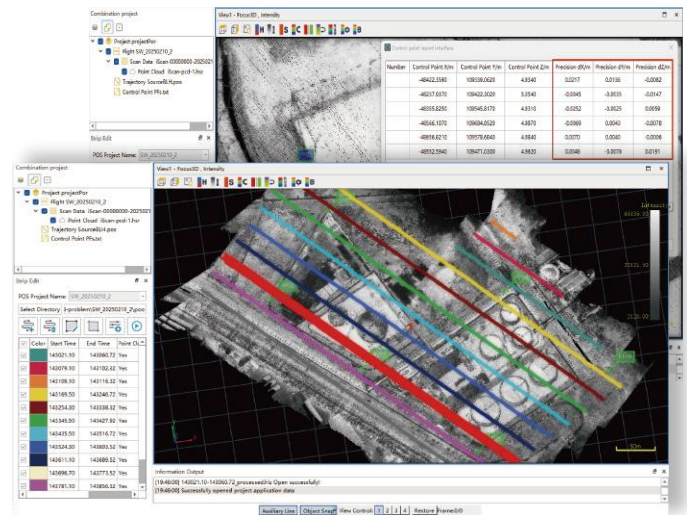
Performs checks on data, overlap, height, density, and range, and generates PDF reports.

Automatic Strip Management

Facilitates quick and easy strip editing.

One-Click Workflow

Converts scanned coordinates to geodetic coordinates with POS and laser data, supporting multiple coordinate systems and transformations.



SLAM Module

— For Handheld SLAM Data Processing



NEW 3DGS Reconstruction & Visualization

Real-time 3D Gaussian Splatting from SLAM data, creating realistic, immersive scenes for inspection, mapping, and digital twins, with fast loading and smooth roaming.

Comprehensive Coordinate Support

Compatible with global coordinate systems and Geoid models.

SLAM Wizard Processing

One-click processing with automatic filtering, georeferencing, and colorization for fast, accurate SLAM results.

RTK/PPK/ GCPs Processing

Enhances trajectory accuracy even in GNSS-denied or obstructed environments.





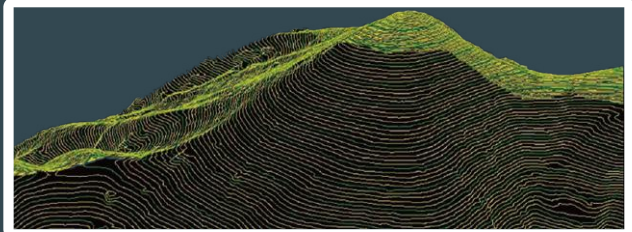
Terrain Module

Classification: Automatic classification of points as ground/non-ground.

Digital Elevation Models (DEM): Generates DEMs automatically from point cloud data.

Contour and Elevation Points: Generates detailed topographic data.

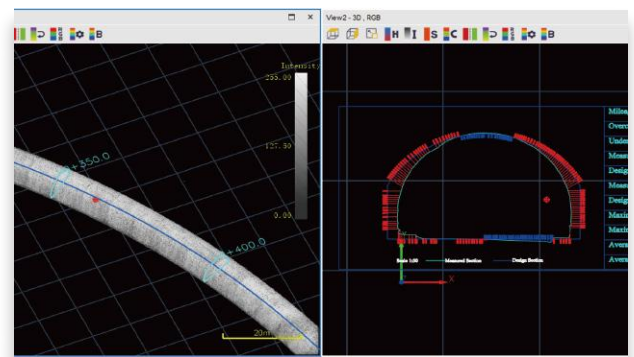
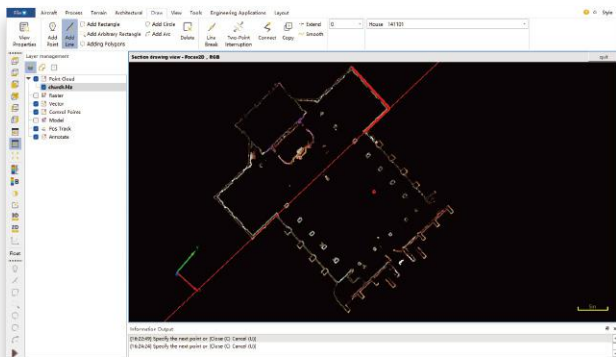
Volume Measurement: Calculate and report single and multiple volume data.



AEC (Architecture, Engineering and Construction) Module

Architecture Module: Effortless point cloud slicing and unfolding for seamless CAD geometry assistance.

Engineering Module: Extracts sections, visualizes complex structures, and provides volume measurement, comparison, and reporting tools.



Specification

Operation system

Windows 10 (64-bit), Windows 11(64-bit)

Processor

Intel Core i7 or above, 6-core processor

Memory

Minimum 16GB RAM

3DGS function • Memory: ≥ 32GB (recommended 64GB)

Graphics

NVIDIA discrete graphics card with at least 2GB video memory

3DGS function • Graphics card: NVIDIA GeForce RTX 20/30/40/50 series, graphics memory ≥ 8GB

Display Resolution

Minimum 1920x1080

NET Framework

Version 3.5



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