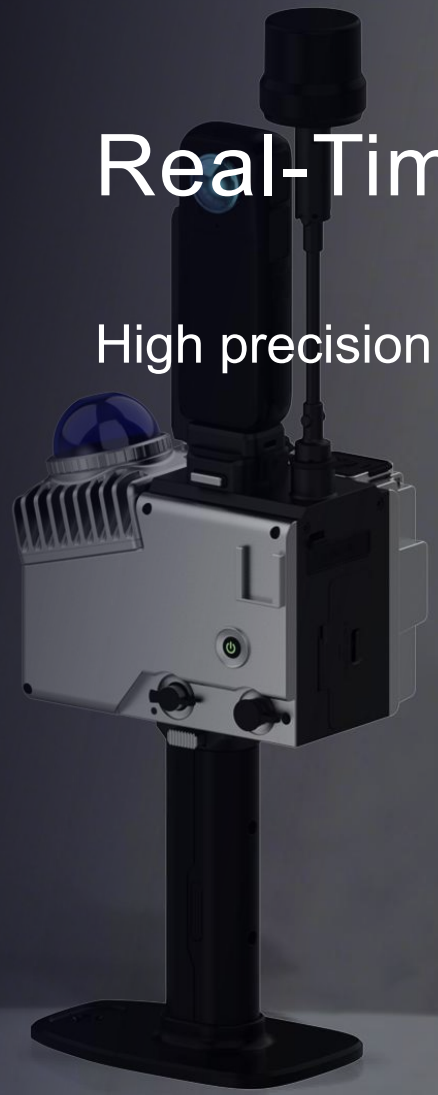
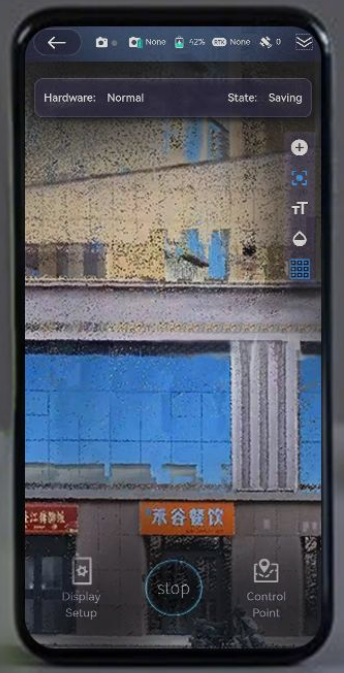
GOSLAM®

GoSLAM M40 Product Advantages

Real-Time Color Processing

High precision point cloud data



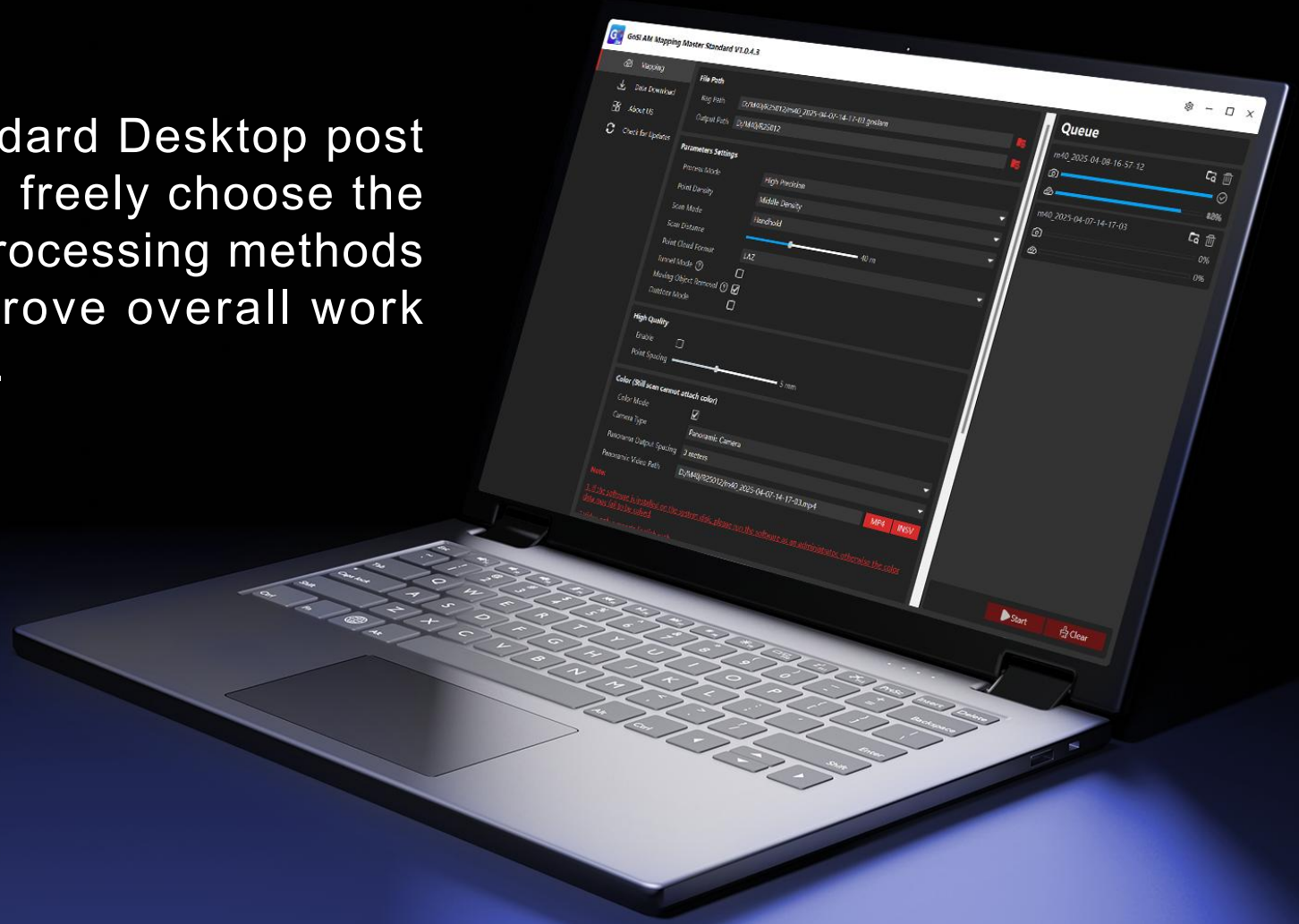


Host End Processing

In the GoSLAM Manager APP, high-precision post processing can be performed through the M40 host and supports 2mm resolution.

Supporting Desktop Post Processing Software

GoSLAM Mapping Master Standard Desktop post processing software, users can freely choose the device host and desktop post processing methods based on actual projects, improve overall work efficiency and meet various needs.



Independent Professional Panoramic Camera

The M40 is equipped with an independent professional-grade panoramic camera, along with three high-performance ISP processing chips, integrating HDR high-dynamic technology, point cloud colorizing and 360° seamless splicing, automatically noise reduction and avoid dynamic blur, adaptive dimming in low-light environments, and millisecond time synchronization, creating an extremely smooth immersive visual experience.

Parameter

Video Resolution	8K(7680x3840)
Photo Resolution	72 million pixels
Aperture	F1.9
Video Mode	360°Panorama Mode
Sensor Size	1/2 inch

Comparison Between Independent Professional-grade Panoramic Camera And Integrated Panoramic Camera

Independent One

Integrated One

Enhancing High Quality Point Cloud With 2mm Resolution Technology

By scanning and processing the ultra-high resolution point cloud with 2mm spacing, it is more realistic and delicate.

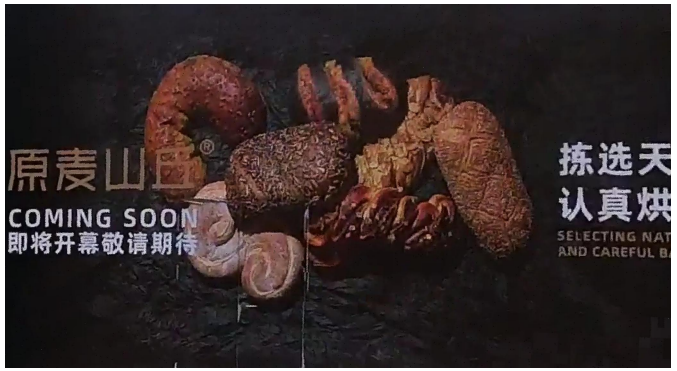
2mm

High Quality Processing Mode

The high-quality processing mode adopts advanced mapping technology to improve the maximum accuracy **up to 2 mm**, and supports flexible settings from 2 to 9 mm to meet the needs of different projects.

Compared with ordinary processing mode of centimeter-level accuracy, this mode effectively filters out noise and corrects outliers to significantly improve data quality.

As a standard configuration for all series, it ensures the output of high-precision point cloud data in various scenarios, providing higher resolution support for projects.



High Quality Mode

Data presentation in high-quality mode.

Regular Mode

Data pesentation in normal mode.

Parameters Settings

Flexible setting range

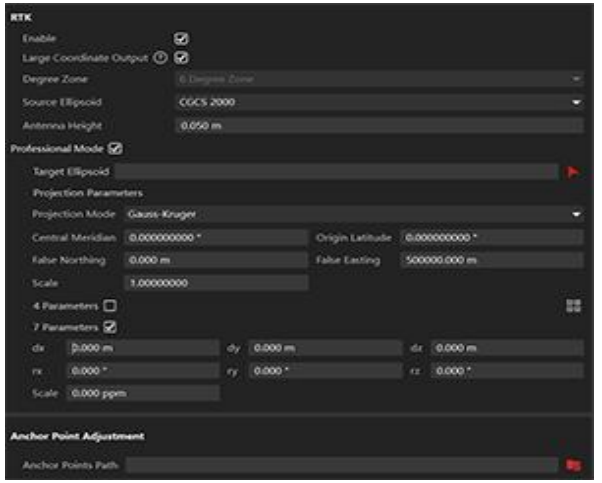
Built-in RTK

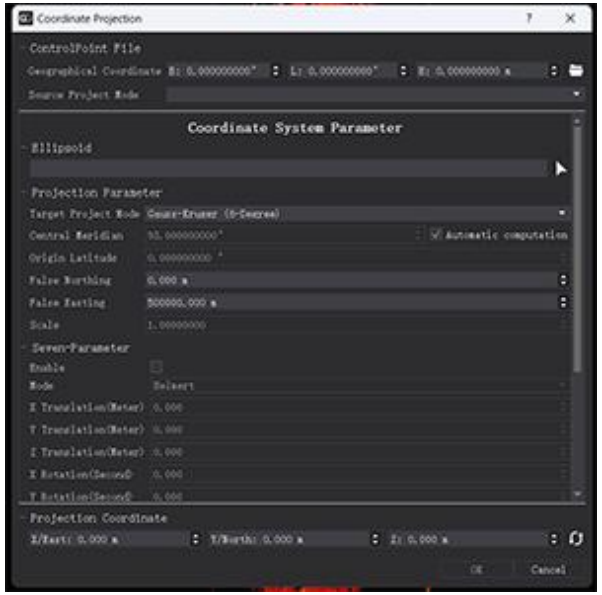
Built-in high-precision RTK, directly supporting WGS84 coordinate system.

RTK Scanning Mode.

The RTK scanning mode provides a high-precision measurement solution.It can stably access the RTK signal and directly output **point cloud data with geodetic coordinates**. It has high accuracy and strong reliability which is suitable for professional scenarios such as surveying and mapping, engineering and construction. The device supports coordinate projection conversion, adapts to coordinate systems in any region, and has strong versatility. When used with an RTK module, **it eliminates reliance on closed-loop paths** and improves efficiency and flexibility. **Compatible with built-in and third-party RTK modules**, saving costs and providing efficient and convenient measurement experience.

Direct Coordinate Output: In addition to the basic WGS84, you can also obtain the coordinate system of a specific area by inputting the corresponding ellipsoid, projection parameters and seven parameters information during processing.





Coordinate Projection

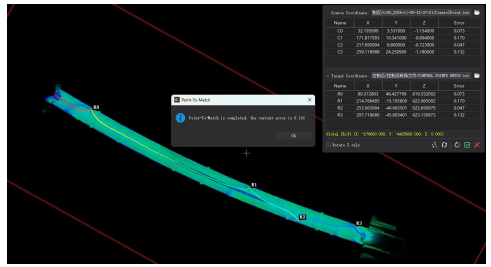
This mode can perform coordinate projection and elevation projection of the targeted area by setting the target coordinate ellipsoid, projection parameters, four/seven parameters, plane grid model files, and geodetic level files.

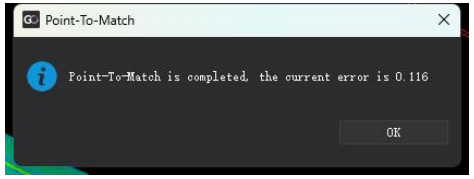
Unique Anchor Point Processing Function

It can maintain stable accuracy output and obtain high-precision data in large-scale complex scenes or low feature scenes .

Anchor Point Adjustment Function.

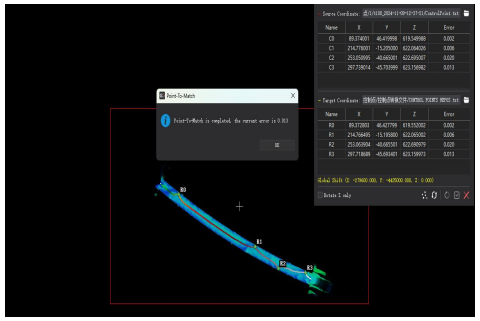
The anchor point processing function is designed for complex environments.By deploying control points and recording their positions,it significantly improves the accuracy of point cloud processing and reduces data errors.**It can optimize data in scenarios without RTK positioning and with poor loop-closure**, enhance system adaptability and stability, and reduce environmental interference. This function effectively improves measurement efficiency, reduces repetitive work, **ensures high-precision measurement results**, and provides reliable protection for complex scenarios.

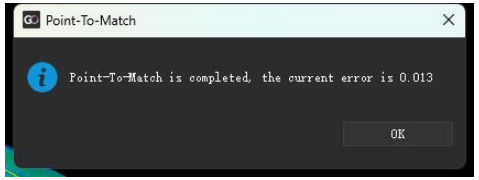




Before Anchor Point Adjustment

Long-term scanning in tunnel without closed-loop, the data conversion accuracy after point-delineation is 0.116m.

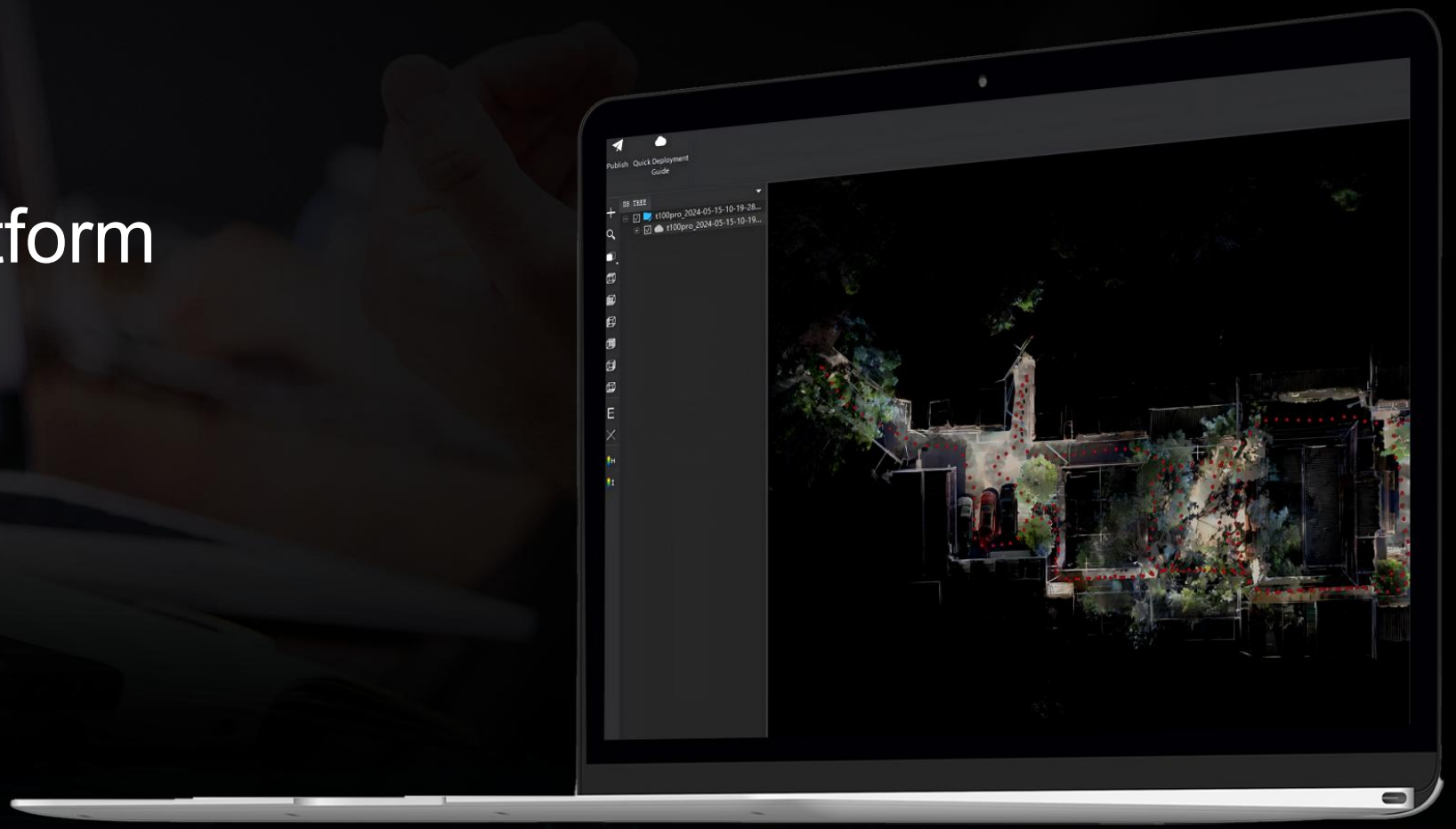




After Anchor Point Adjustment

Long-term scanning in tunnel without closed-loop, the data conversion accuracy after point-delineation is 0.013m.

Digital Asset Platform



Digital Asset Platform.

The platform focuses on the visualization of **3D data assets and management.Combined** with 3D scanning system, it can quickly digitize physical scenes and build a virtual 3D base map. It supports 360° immersive access and one-click virtual and real scene integration, serves the **digital management** of industries such as construction, factories, electricity, and improves decision-making efficiency and team collaboration. The platform provides users with an intuitive 3D data base to facilitate scene digitization and intelligent upgrades.

Independent Offline Package:

Through LidarWorks, data can be directly published and packaged into web programs for browsing. This function can perform first/third-person perspective roaming, measurement, and linkage display of panorama and point cloud.

Deployment Mode:

The platform supports localized deployment and is compatible with both private and public network environments;
The platform supports SaaS deployment and provides account subscription services;

Panoramic Point Cloud Linkage:

360 ° immersive access with one-click switching between virtual and real fusion;

POI (Point Of Interest Annotation):

Support POI point of interest annotation and data integration (audio and video, IoT, signage, documents, etc.);

2D/3D Measurement:

Support 2D/3D spatial measurement, distance measurement, and area measurement;

Data Sharing:

Support cross regional and cross departmental collaboration and sharing, achieve internal analysis through account management, and achieve external sharing through QR codes or URL links;

API Interface:

Support cross system and data integration, provide RUL links, support embedding in third-party platforms, and also support the access of IOT data, custom information dashboards; The platform has functional scalability.

Color Module

Car-Mounted Kit

Backpack Kit

GCM V3 Module

Extension Rod

Drone Kit

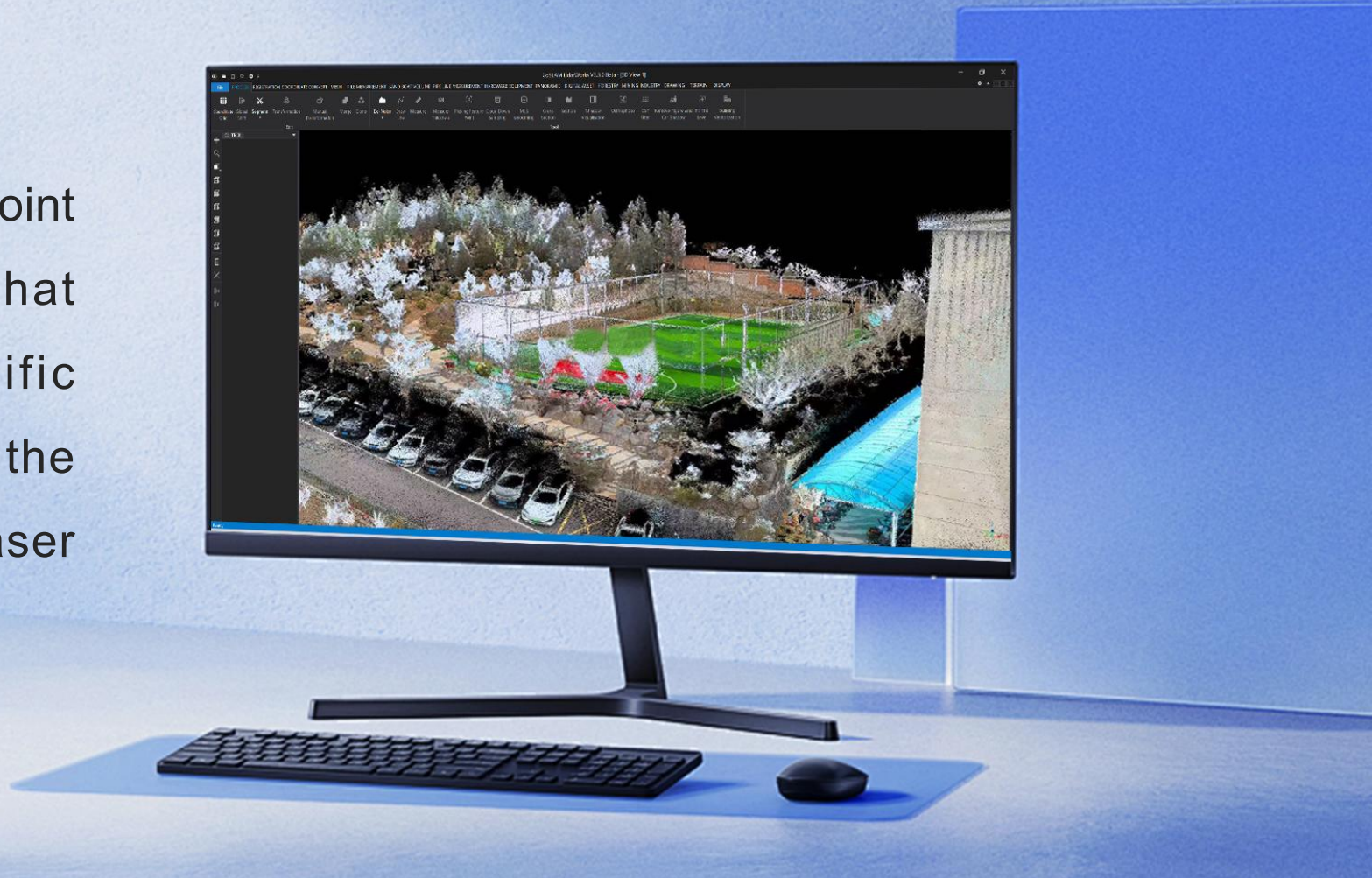
Helmet Kit

Scanner Chest Supporting System

Robot Dog Kit

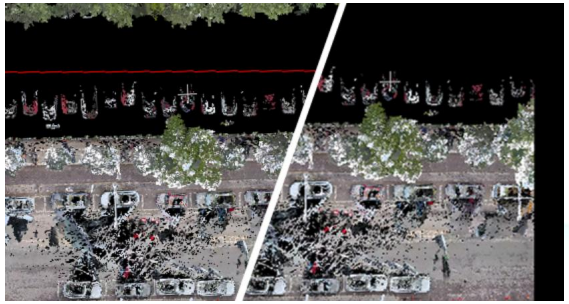
GoSLAM LidarWorks

GoSLAM LidarWorks is a powerful point cloud post-processing software that supports multiple industry-specific application modules and supports the full range of GoSLAM mobile 3D laser scanning systems.

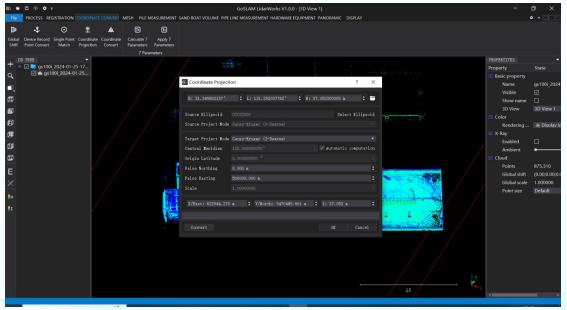


Software Advantages

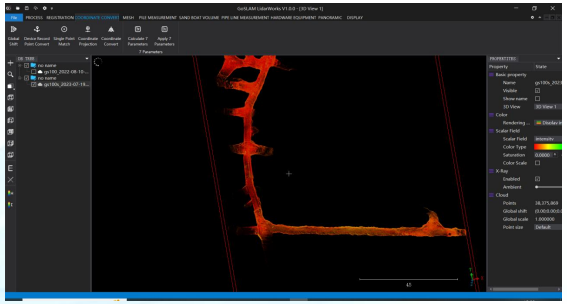
Partial Function Display



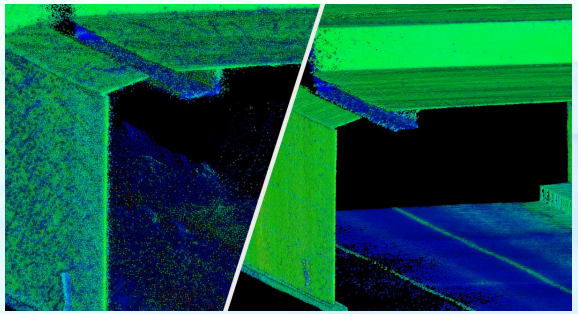
Segment



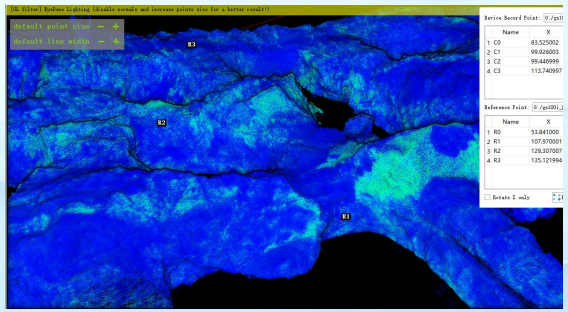
Multi Coordinate System Conversion



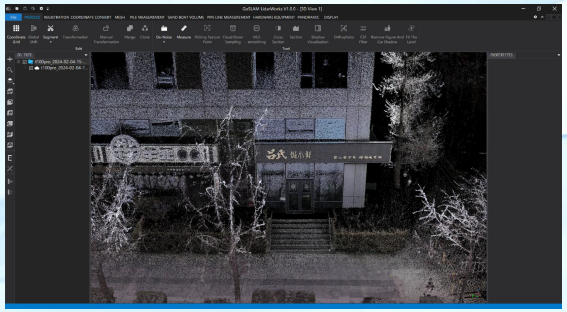
X-Ray Dispaly Mode



Noise Reduction



Coordinate Conversion

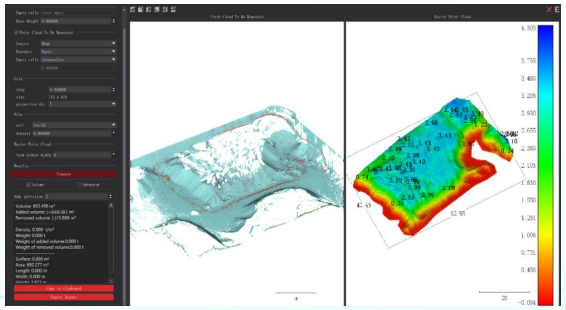


Color Point Cloud

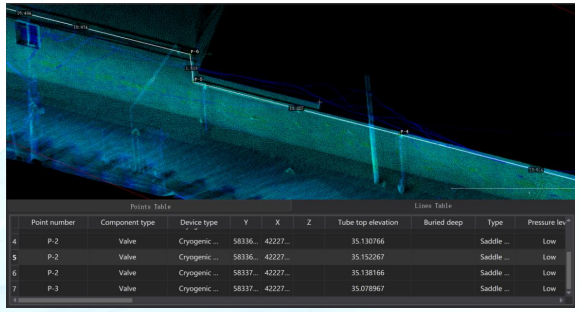
Software Advantages

Partial Function Display

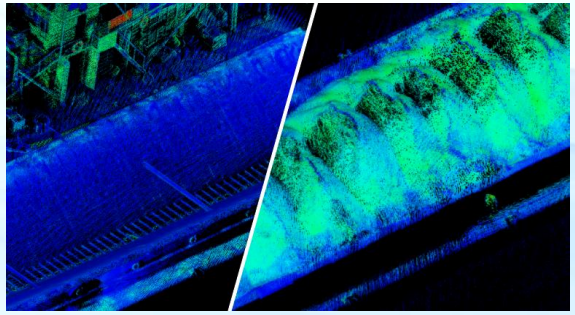
360 Panoramic Linkage



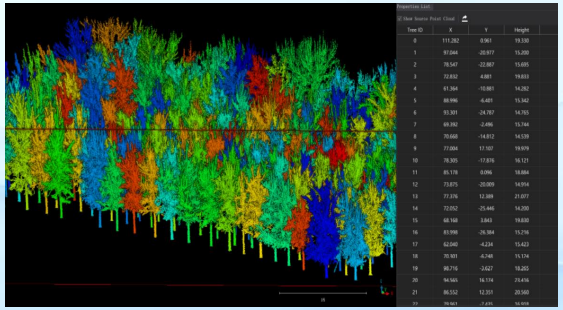
Pile Volume Measurement Module



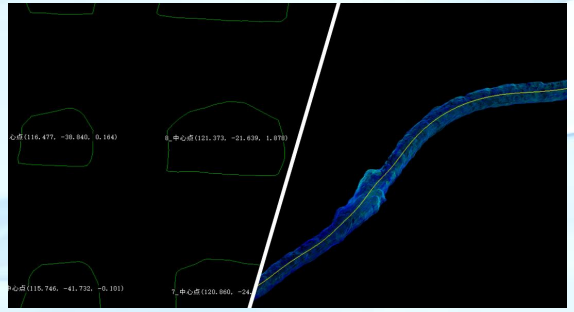
Pipeline Measurement Module



Sand Boat Measurement Module



Forestry Module



Mining Module