GOSLAM®

G 1 Plus

Stationary 3D Laser Scanning System

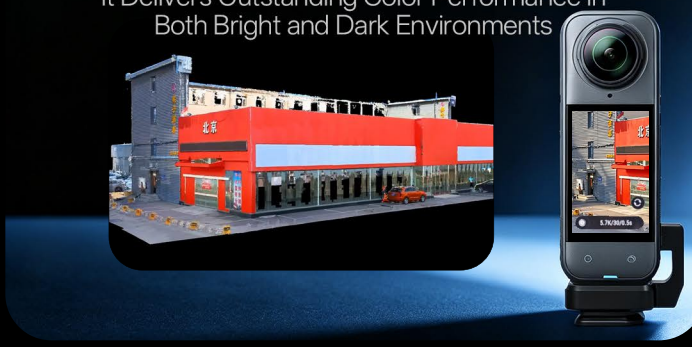
Splicing-Free Super Scanning Solution

Splicing-Free, Precision Control, High Efficiency

G1 Plus Stationary 3D Laser Scanner,
Achieving Integrated Automatic Inter-station
Fusion Splicing Technology,
While Possessing the High Precision Advantages
Compared To Static Equipment,
Achieve Efficiency Improvement Across The Entire Process
Of Data Acquisition, Processing, and Output,
Unlock A New Experience In Efficient 3D Data Acquisition.

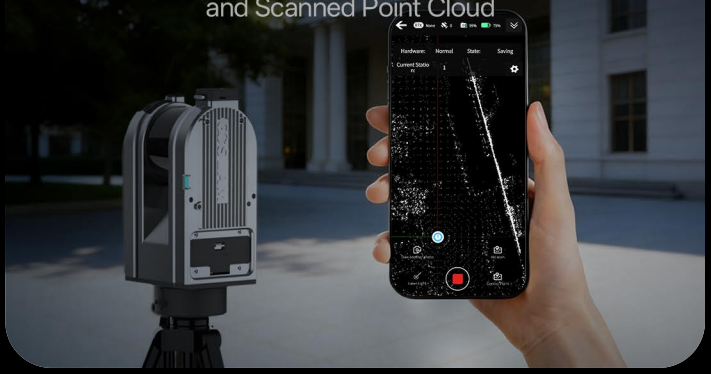
8K HDR Color Module (Optional)

Integrated With High-definition Imaging and Compatible With 8K HDR Modules, It Delivers Outstanding Color Performance In Both Bright and Dark Environments



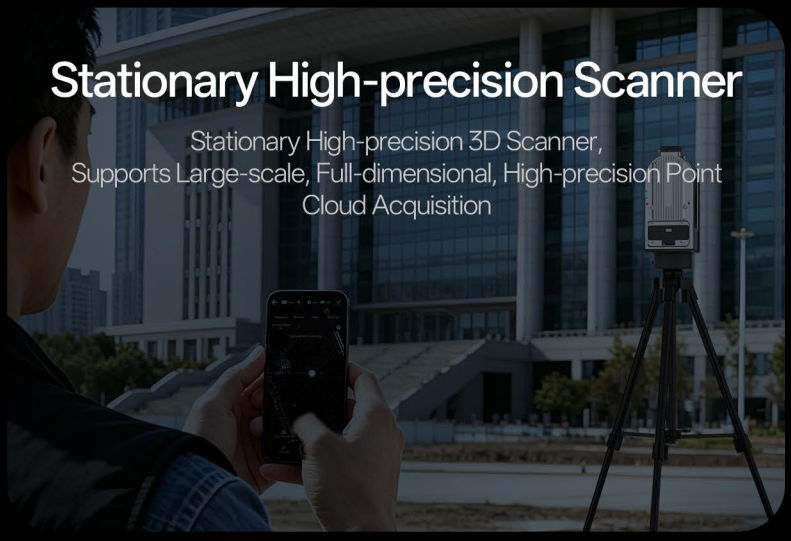
Mobile APP

Supports Android/iOS Systems, Real-time View Of Scanned Site Associations and Scanned Point Cloud



Stationary High-precision Scanner

Stationary High-precision 3D Scanner, Supports Large-scale, Full-dimensional, High-precision Point Cloud Acquisition



Automatic Splicing, Requiring No Manual Intervention

Real-time In-device Preview Of Site Composition, Timely Addition Of Missing Sites

TF Card

Anchor Point Adjustment

RTK、PPK

360° Rotation

Laser Dotting

Independent Airflow Cooling System

High Precision and High Efficiency Data Acquisition

- Maintaining The High Precision Advantage Of Static scanners and Ensures Data Reliability;
- Data Collection Efficiency Is Increased By 80% Compared To Traditional Equipment, Significantly Reducing Field Operation Time.

5mm
Millimeter-level Accuracy

80%
Data Collection Efficiency

Real-time Splicing Preview No Manual Intervention Required

- Supports Real-time Preview Of Site Composition Relationships, Eliminating The Need For Manual Rough Composition Assistance;
- This Can be Completed Locally Inside The Device;
- Instantly Obtain Location Relationships and Promptly Supplement Missing Sites.

Real-time Preview

No Manual Splicing Required

Improve Efficiency

One-click Data Calculation Software Process

- Equipped With Desktop One-stop Processing Software;
- It Supports Automatic Data Splicing, Anchor Point-assisted To Optimize Accuracy, Moving Object Filtering, PPK, RTK, Data Fusion, etc., To Meet The Needs Of Professional Applications.

Splicing-Free Technology

- Fully Automatic Splicing, Requiring No Manual Intervention Throughout The Entire Process;
- Significantly Lowering The Barrier To Entry, Professional Scanning Becomes Easy To Use.
- Laser SLAM Technology Is Being Used For Splicing Between Sites, Automatically Completing Global Registration From Start To Finish, With Data Being Scanned and Merged Instantly.

8K HDR Color Camera and True Color Point Cloud Effect

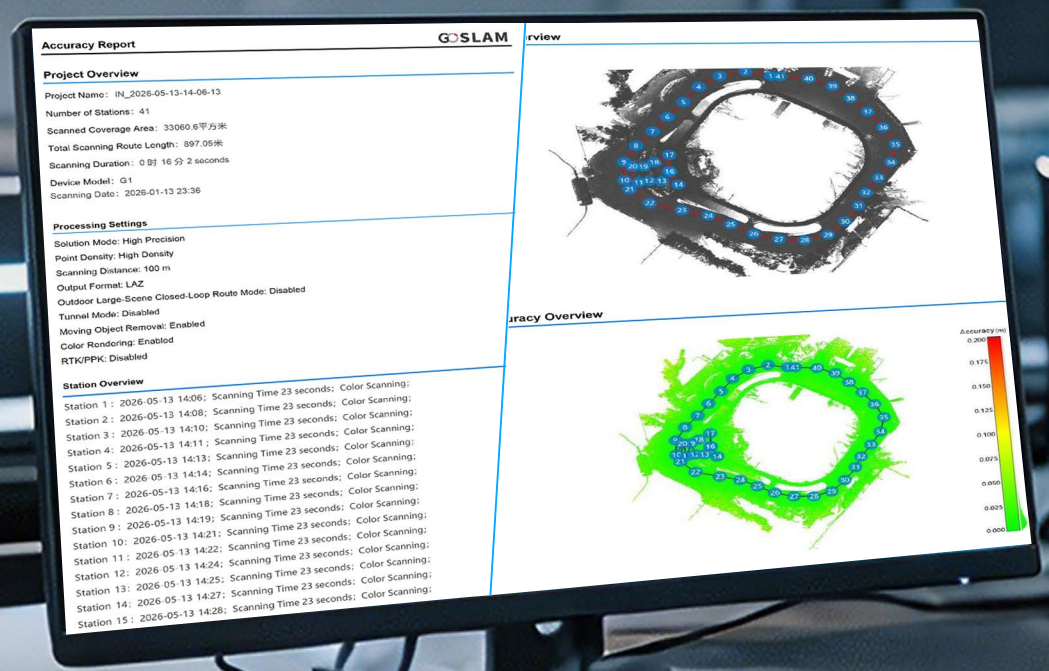
· Equipped With An 8K Panoramic Camera,It Can Provide Users With Panoramic High-definition Images With A Maximum Resolution Of 72 Million Pixels and Supports Point Cloud Colorizing.

Image & Point Cloud Automatic Registration and Alignment Technology

· Even Though There Is Slight Difference In The Installation Position Of The Camera Each Time, The Automatic Registration and Alignment Function Of Image & Point Cloud Eliminates The Need For Manual Registration.

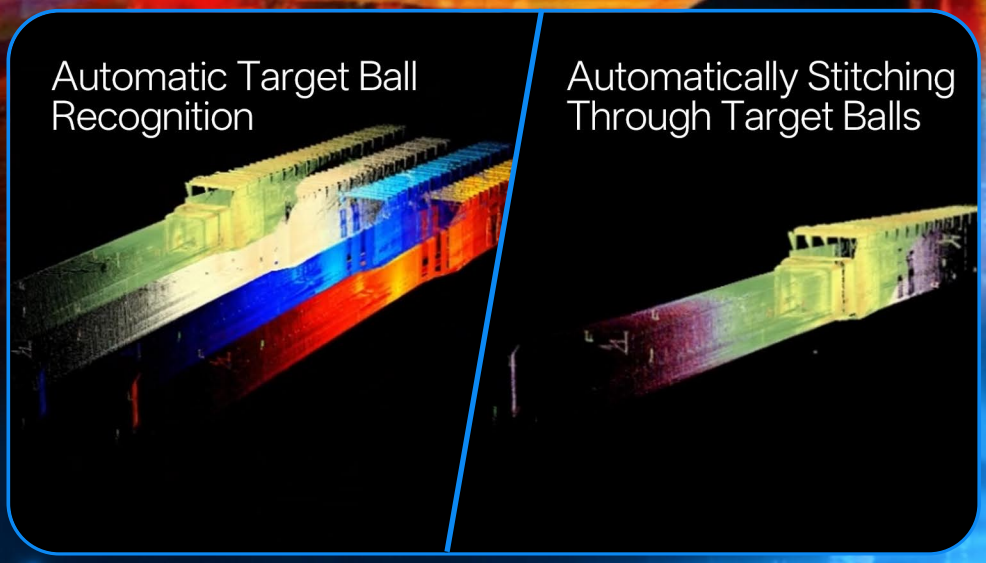
Automatically Generate Project Overview and Site Accuracy Report

- After Merging and Splicing, An Accuracy Report Can Be Automatically Generated, Providing A Reliable Accuracy Reference For The Data Results.
- All Data Accuracy Is Quantifiable and Verifiable, Supporting Site-level Accuracy Backtracking and Optimization, and Quality Is Traceable Throughout The Entire Path.



Target Ball Automatic Recognition

- Not Afraid Of Low-feature Environments, Supports Target Sphere Splicing Technology;
- One-click Target Sphere Recognition, One-click Automatic Splicing, Easily Handling Challenging Environments.



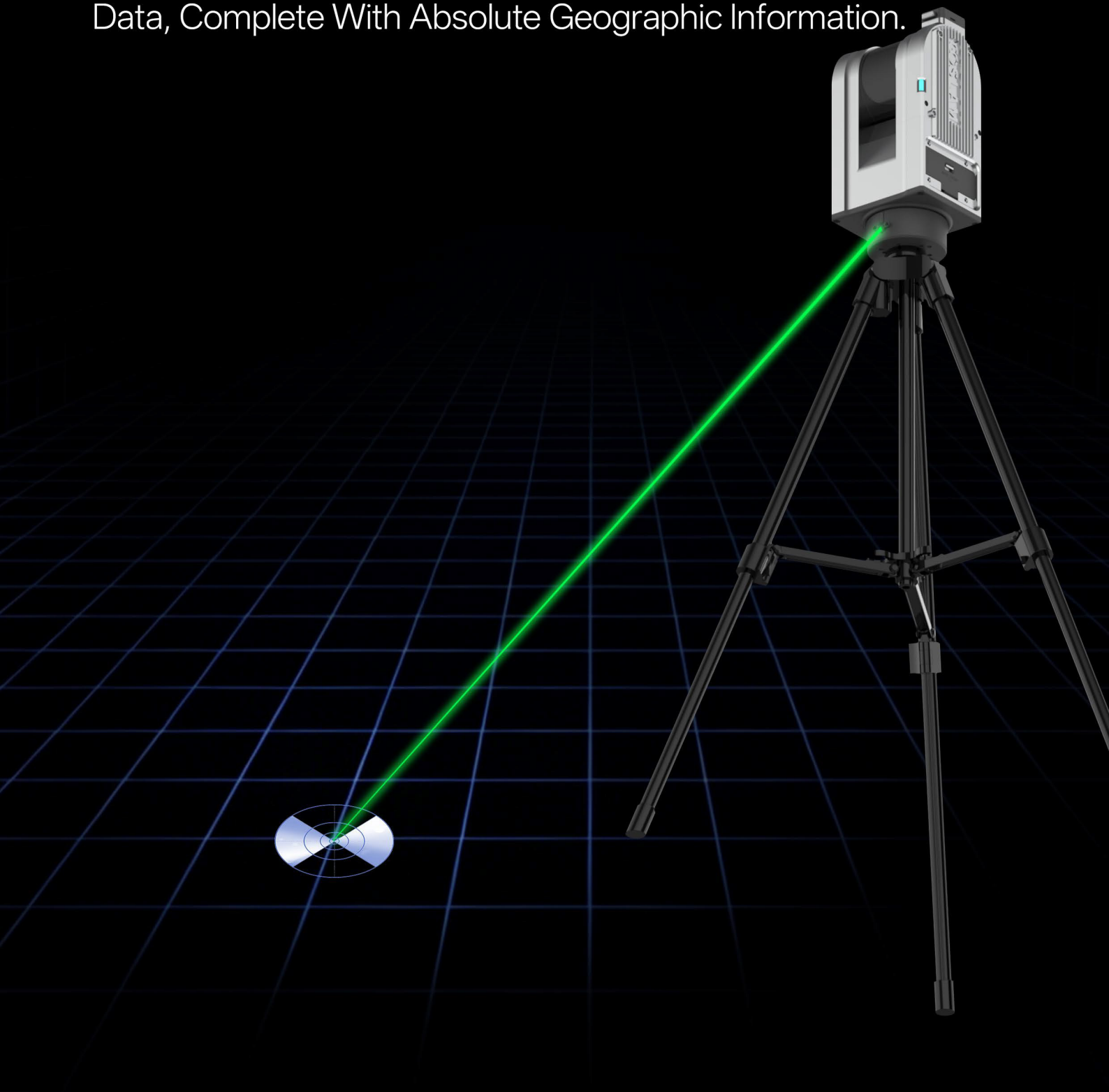
Built-in RTK/PPK Dual-mode Positioning Module

· The Device Comes With A Built-in RTK/PPK Dual-mode Positioning Module and A Quick-mount GNSS Antenna. It Supports Multi-constellation,Multi-frequency Satellite Signals, Has Strong Anti-interference Abilities, and Can Still Provide Stable Solution Even In Obstructed Environments.

· After Scanning, All Data Comes With High-precision Absolute coordinates (Large Coordinates), No Control Points Are Needed, and Results Can Be Obtained Directly In The Field.

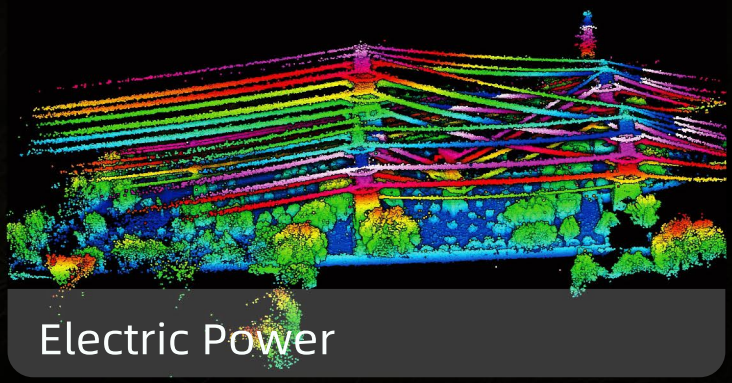
Laser Control Point Coordinate Transformation

· Using A Visible Light Laser Pointer, It Can Achieve High-precision Ground Control Point Coordinate Conversion. Move The Scanner's Laser Pointer To The Control Point, and After Scanning, Input The Large Coordinate Information To Directly Generate large Coordinate Data, Complete With Absolute Geographic Information.

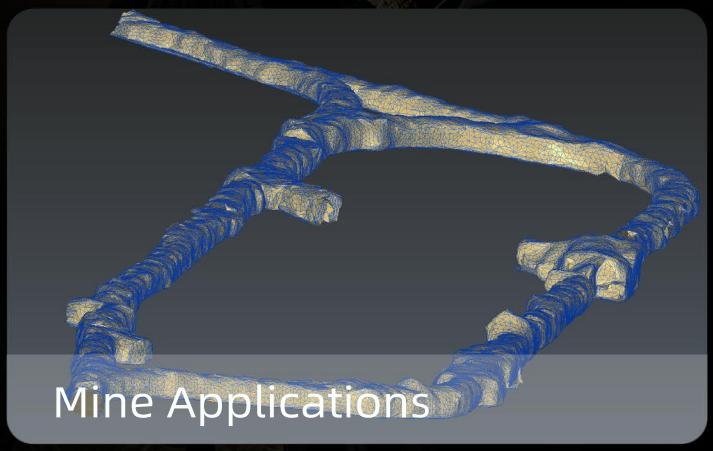


Industry Applications

Suitable For Urban Construction, Digital Twins, BIM Planning, Surveying, and Other Fields That Require High Precision and Efficiency, Providing A Reliable 3D Data Foundation For Engineering Digitalization.



Electric Power



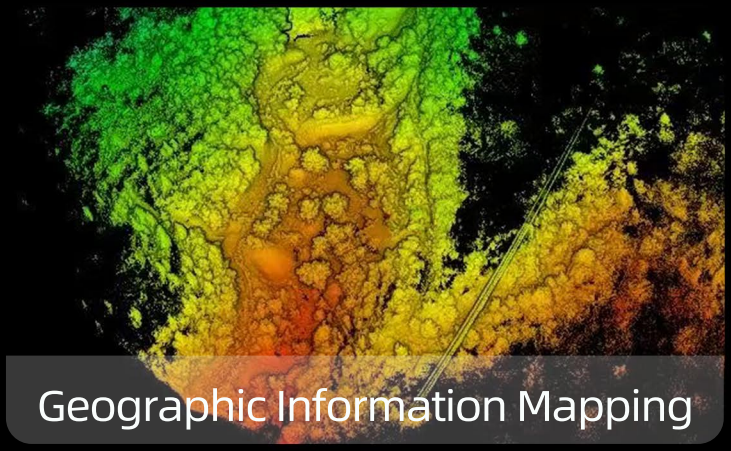
Mine Applications

Ancient Architecture Applications

Building BIM

Accident Investigation

Surveying and Mapping

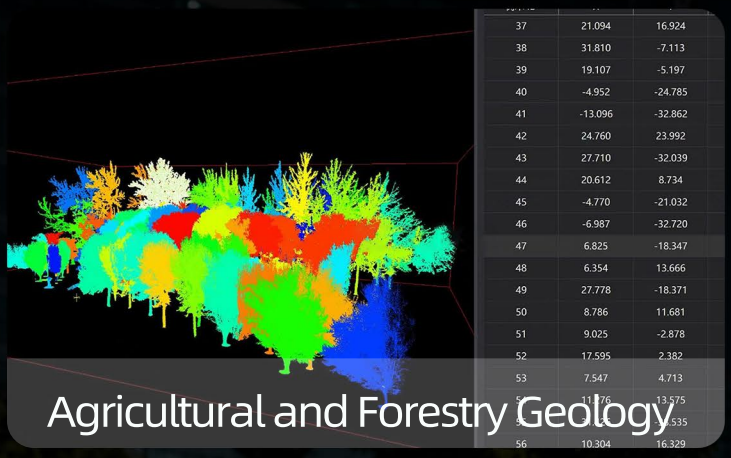


Geographic Information Mapping

Urban Architecture

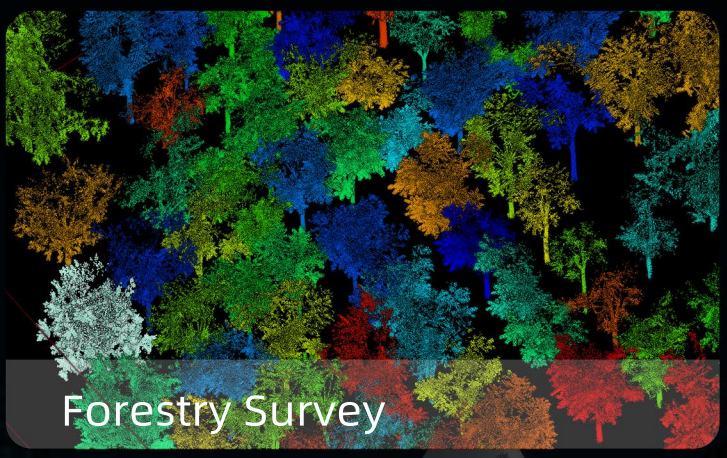
Underground Facilities

Bridge Safety



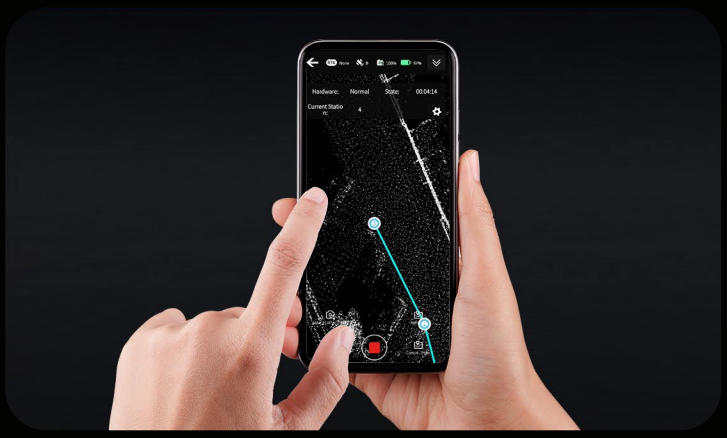
37	21.094	16.924
38	31.810	-7.113
39	19.107	-5.197
40	-4.952	-24.785
41	-13.096	-32.862
42	24.760	23.992
43	27.710	-32.039
44	20.612	8.734
45	-4.770	-21.032
46	-6.987	-32.720
47	6.825	-18.347
48	6.354	13.666
49	27.778	-18.371
50	8.786	11.681
51	9.025	-2.878
52	17.595	2.382
53	7.547	4.713
56	10.304	16.329

Agricultural and Forestry Geology



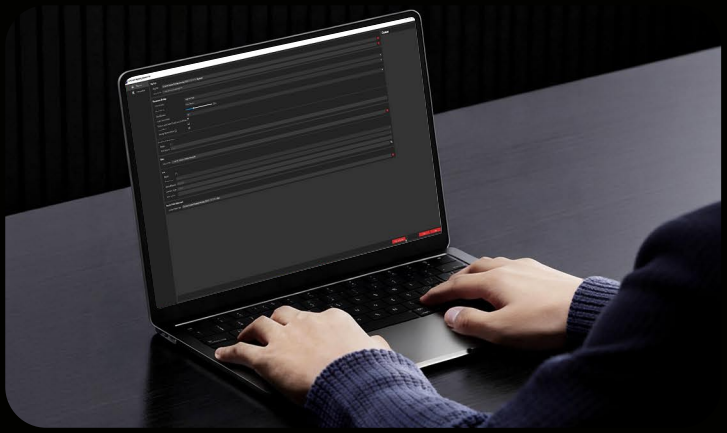
Forestry Survey

Supporting Software



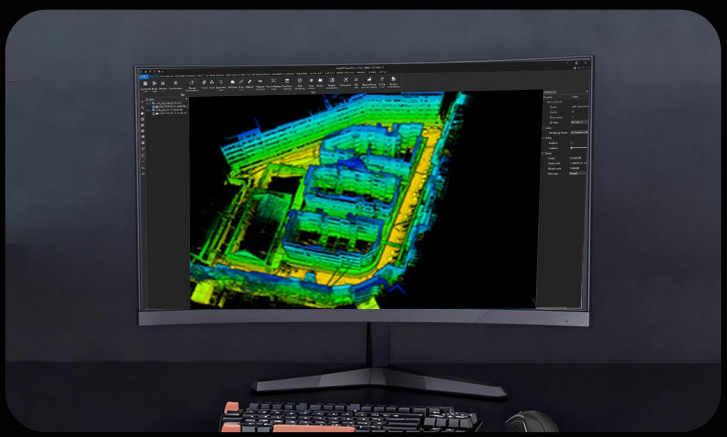
GoSLAM Manager APP

The GoSLAM Mobile App Brings Together Features Like Checking Device Status, Controlling The Scanner To Collect Data, Previewing Point Cloud Data In Real Time, and Processing Data Locally. It Breaks Through Physical Limitations, Making It Easy For Users To Start And Manage Different Scanning Methods.



GoSLAM Mapping Master Pro

Desktop Post-processing Software, Users Can Choose The Device Host and Desktop Processing Methods According To Their Actual Project.It Helps To Improve The Overall Operation Efficiency And Meet Various Demands.



GoSLAM LidarWorks

GoSLAM Lidarworks Is A Comprehensive Point Cloud Processing Software That Supports Basic Operations Such As Point Cloud Browsing, Editing, Conversion And Stitching. It Is Equipped With A Variety Of Industry Application Modules, Such As Forestry, Sand Ship Measurement, Pipeline Measurement, Etc.Furthermore,It Optimizes The Processing Of GoSLAM Scanner Data To Achieve Convenient Operation Of Automatic Identification Of Supporting Files.

GoSLAM Lidarworks Software Has Numerous Industry Application Modules, Providing Solutions For Various Industries.

Mining Module

The Mining Module Intelligently Extracts The Main Body, Central Axis, and Continuous Cross-Section Of The Mine Tunnel, Accurately Filters Out Interference, Supports Over-excavation And Under-excavation Analysis As Well As Deformation Analysis, And Provides Core Data For Volume Calculation, Construction Analysis And Safety Monitoring.

Heap Measurement Module

Based On Point Cloud Data, Volume and Surface Area Can Be Measured With One Click, Without The Need For Model Encapsulation, and Custom Planar Adjustment Is Supported.

Forestry Module

This Module Uses Intelligent Algorithm To Perform High-Precision Single-Tree Segmentation and Parameter Extraction (Tree Height,Tree Breast Diameter, Crown Width, Volume) With One Click, While Retaining Ground Points and Supporting Large Coordinate Output, Providing A Precise Data Foundation For Forestry Survey.

Sand Boat Metering Module

By Scanning Point Cloud Data Of Sand Boat In Both Empty and Fully Loaded Status, The Volume Of Sand and Gravel Transported Can Be Accurately Calculated, Forming A Complete Data Chain That Provides A Reliable Basis For Water Resources Law Enforcement And Transport Capacity Statistics.

Pipeline Measurement Module

This Module Uses Scanned Point Cloud To Draw A Point and Line Table Of Gas Pipelines. It Can Extract Coordinates and Burial Depth With One Click and Archive Them In Project Form. It Supports Excel Output, Which Facilitates Data Submission and Secondary Retrieval.

Digital Asset

The Digital Asset Module Can Package Point Cloud Data Into An Executable File, Supporting Quick Preview and Secure Sharing, Enabling Efficient and Convenient Digital Asset Management and Dissemination.

Drawing Module

The Drawing Module Integrates Point Cloud Vectorization and Layered Management, Supporting Precise Drawing Of Sections/Elevations. In Perspective View, It Can Be Operated Smoothly Through A Dedicated Toolbar and Automatically Closes.

Terrain Module

The Terrain Module Integrates Functions For Generating Contour Lines, DEM, DSM. Based On Intelligent Coordinate Correction and Ground Point Classification Technology, It Quickly Filters Out Non-Ground Structures, Providing High-Quality Terrain Data For Modeling.

Registration Module

The Registration Module Is Based On Feature Area Splicing, Supporting Automatic Recognition Of Target Spheres and Fully Automatic Registration, Without The Need To Manually Select Overlapping Areas, Balancing Splicing Speed and Accuracy.

G1 Plus Specifications

Laser Level	Panoramic Camera (Optional)	Splicing Method	Anchor Adjustment
Class 1	8K Level(Pixel)	Automatic Splicing	Support

Scanning Range	Scanning Speed	FOV	Image Point Cloud Calibration
300m	640,000 PTS	360°X300°	Automatic Alignment Without Registration

Point Accuracy	Resolution	Angle Accuracy	Working Time
5mm@10m	2mm(Highest)	0.005°	3h

Working Temperature	Storage Media	Built-in RTK and PPK	Operating Mode
-35°C-50°C	TF Card	Support	APP and Physical Buttons

GCP Transformation	Product Shell
Support (Laser Indication)	Aviation Grade Aluminum

Product Size (Host)	Weight (Host)
12.3x9.8x24.4mm	2kg

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