

lined Post-Processing Workflow



Automated stitching, denoising, and rendering ensure efficient production of high-quality point

Supports UTM, Gauss-Krüger, and other projections for direct, project-ready data output, ensuring seamless integration with

LS600 Laser Scanner

GNSS Surveying System Ver.2025.08.11

L1C/A, L1C, L2P, L2C, L5

B1I, B2I, B3I, B1C, B2a, B2b

E1, E5a, E5b, E6c, E5 AltBOC

Real-time + Post-processing

L1C/A, L2C, L5, L1C

Li-ion battery

14.4 V

49.34wh

1.5 hours

L1, L2, L3

L5 L1C/A



Size(LxWxH): 240mm x 115mm x 320mm

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,	SYSTEM PARAMETE	RS	Absolute Vertical/Horizontal 3 cm Accuracy (RMSE) ²	3 cm
	Housing Material	Industrial-grade aluminum		
	Weight	1.9 kg ¹	Real-time Relative Accuracy 2 cm (RMSE) ³	
	Power Consumption	<35W		
	Storage	512GB SSD (expandable)	Processed Relative Accuracy 1 cm (RMSE) ³	
	Software Support	ScanMaster (mobile) / RealEditor (PC)	Repeat Accuracy (RMSE) ⁴	y (RMSE) ⁴ 2 cm
	Wireless	WIFI, Bluetooth	Point Cloud Thickness ≤ 0.5 cm (RMSE) ⁵	
LASER		Horizontal/Vertical Angular Accuracy ²	≤0.05°	
	Laser Class	Class 1 / 905 nm	Processing Mode Real-time + Post-proce	
	Number of Lines	16 / 32	RTK Accuracy (Horizontal) 8 mm + 1 ppm (RMS)	

7.02.1			
Laser Class	Class 1 / 905 nm		
Number of Lines	16 / 32		
Field of View	360° × 270°		
Range	0.5-120 m / 0.5-300 m (3 configurations)		
Scan Rate	16 lines: 320,000 pts/s 32 lines: 640,000 pts/s		

ENVIRONMENT

IP Rating	IP54		
CAMERA			
Number of Cameras	2		
Camera Resolution	48 MP × 2		
FOV	190°×190°		

Operating Temperature -20°C to +50°C (-4°F to 122°F)

1. With handheld battery and GCP collection plate

Point Cloud Format

TurboCloud Enhance

Image Format

RTK Accuracy (Vertical) 15 mm + 1 ppm (RMS)

BATTERY

Voltage

Capacity

BDS: GLONASS:

Galileo:

QZSS:

IRNSS:

Typical Operating Time

PERFORMANCE

2. Refers to real-time/processed data. No RTK signal loss more than 100 m

.jpg

Supported

- 3. The distance between two points is less than 100 m
- 4. Two scans both with full RTK signal

Note: Final delivered specifications may vary slightly based on actual

5. Horizontal thickness of the point cloud within 10 m of the travel path

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UNLOCK NEXT-LEVEL 3D SCANNING

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| Features

Extended Range & High-Speed Capture

Offered in four configurations—16-line or 32-line LiDAR, each with 120m or 300m range—the LS600 delivers scan rates of 320,000 points/sec (16-line) or 640,000 points/sec (32-line), significantly boosting field efficiency.



High Accuracy & Built-in RTK Module

Powered by SinoGNSS's self-developed GNSS module, the LS600 supports high-precision, full-frequency GNSS solutions—delivering robust centimeter-level performance across diverse satellite constellations.



Dual-Lens Camera & Vivid Color

Equipped with dual 48MP wide-angle cameras (190° × 2) to capture multi-angle color data. Combined with visual-aided SLAM (V-SLAM), the system generates highly accurate, richly detailed color point clouds—delivering more realistic visualization and deeper insights.



Integrated Professional Surveying Antenna

Features a built-in, high-precision surveying-grade antenna with superior signal acquisition, ensuring robust performance. LS600 supports connection to a pole for professional SLAM and RTK surveying.



Introduction

The LS600 is a next-generation handheld 3D laser scanner that seamlessly combines advanced SLAM technology, a built-in RTK module for centimeter-level accuracy, and dual wide-angle cameras for vivid color capture. Through multi-sensor fusion (LiDAR, IMU, and camera), the LS600 achieves robust performance in both indoor and outdoor environments—delivering high-speed scanning, richly detailed color point clouds, and streamlined post-processing. Its lightweight, all-in-one design ensures efficiency and reliability across diverse industries, from surveying and urban renewal to mining and emergency















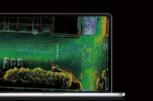








| Application



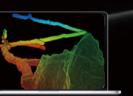
Boundary mapping and topographic data collection- Quick, large-area coverage with high accuracy





Construction site monitoring and progress tracking- Precise data for design and structural analysis





Pit volume calculations and slope stability monitoring- Improved resource management and



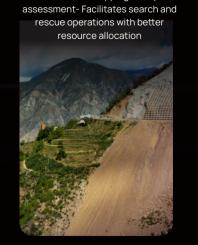


AGRICULTURE & FORESTRY

Crop health analysis and forest resource evaluation- Enhanced planning for yield optimization and





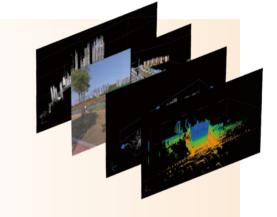


Disaster area mapping for rapid

ComNav RealEditor (PC-Based)

Powerful, User-Friendly **3D Post-Processing Software**

ComNav RealEditor is a next-generation 3D data processing platform designed to work seamlessly with LS-series handheld laser scanners. It provides advanced SLAM optimization, coordinate transformations, and an array of editing tools helping you generate high-quality point clouds, perform industry-specific analyses, and easily export results for further use.



Key Advantages

1. Comprehensive Coordinate Transformations

RTK & Control Points: Supports multiple satellite constellations, enabling absolute coordinate conversion via GNSS or

3.Mesh Modeling & Stockpile Measurement

Transform point clouds into 3D meshes for CAD/CAM workflows or 3D printing.

Easily perform volume calculations for mining, construction, or material stockpile monitoring.

5. Camera Coloring & Enhanced Visualization

Support for internal dual-lens to colorize point clouds with

EDL (Eye Dome Lighting) mode sharpens edges and enhances object contours for improved clarity.

7. Easy Data Management & User Interface

Right-Click Context Menus for quick file operations, plus multi-window display and intuitive toolbars. Multi-Language support and modern UI design lower the

2.One-Click Denoising & Merging

Quickly clean raw scans and fuse multiple point clouds into a

Batch Processing: Add multiple scanning projects to a queue for automated, sequential processing.

4.Multi-Format Import & Export

Reads and writes LAS, LAZ, PLY, E57, and more. Flexible data exchange ensures interoperability with various industry platforms.

6.Robust SLAM Optimization

Dynamic Object Removal: Minimize moving-vehicle or passerby noise in crowded scenes. Robust Mode: Stabilize scanning results in environments with poor GNSS signals or minimal feature points.

8. Automatic Software & Firmware Updates

Online Update: Check for new features, bug fixes, and plug-in improvements directly in the software.

ScanMaster (Android)

- ♦ Simple Operation
- ♦ Real-Time Preview
- ◆ Intelligent Management





Key Features:

Multiple Connection Modes

Choose between Direct Mode or Bridge Mode based on your field conditions. Easily pair via Bluetooth and configure



Real-Time Status & Quality Checks

Instantly view battery levels, GNSS/RTK signal quality, and tilt warnings to ensure complete, accurate coverage.



Flexible RTK Configurations

Log in with built-in or custom RTK service accounts; easily switch between Survey RTK and Standard RTK for centimeter-level positionin



Convenient Data Transfer

After scanning, connect via USB-C "U-disk Mode" to copy project files-streamlining your field-to-office workflow.



One-Click Scanning & Control

Start and stop scans or power the device on/off directly from your phone-no extra hardware required.



On-the-Fly Control Point & **Measurement Logging**

Mark control points mid-scan for enhanced post-processing accuracy; record indoor or outdoor coordinates with ease.



Project Management & File Naming

Assign custom project names before scanning; auto-generate time-stamped folders for fast data organization.



Firmware Upgrades & Maintenance

Check for and install firmware updates right from your phone; monitor device health to reduce downtime



