





Full-Constellation Tracking: Strong Signal & High-Quality Data

- Supports 1408 channels
- New GNSS SoC chip: Low power consumption, extended battery life.
- Advanced technology: Advanced multi-frequency anti-interference and adaptive filtering technology ensures strong signal reception, high-quality data and excellent accuracy.





Innovative Industrial Design

- Compact & lightweight for easy handling.
- Screw-lock mechanism securely connects the device and battery handle, ensuring reliable and stable operation.

N:2542629.911

E:435687.323

H:2.645



Contactless Measurement

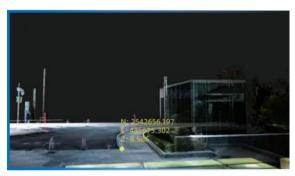
- Utilizing laser point cloud data and image data provides real-time acquisition of rich geospatial information efficiently and conveniently.
- This technology greatly expands the application scope of GNSS, allowing measurements in areas like under bridges, culverts, and enclosed spaces, ensuring efficient and safe operations.
- Leveraging Android's high-performance laser point cloud and image processing technology, users can simply take a photo to obtain coordinates of multiple points on the handheld software. With an accuracy of 5cm, it doubles working efficiency.



Unified Coordinate Framework

- RTK + SLAM Fusion: V700S delivers real-time centimeter-level positioning outdoors while automatically aligning point cloud data, ensuring unified coordinate output (BLH/NEH).
- Control-free scanning: V700S requires no control points, allowing users to scan freely without returning to previous locations dramatically improving on-site efficiency.







Laser Reverse Positioning Technology: Precision Measurement without Signal

Hi-Target's innovative Laser Reverse Positioning Technology enables seamless cross-environment measurement. Outdoors, the high-precision RTK module delivers centimeter-level accuracy. In GNSS-denied areas like under bridges or eaves, the system automatically switches to laser-based positioning, ensuring uninterrupted data capture.





Real-time Volume Calculation

Through laser point cloud data, rich three-dimensional data of ground objects can be obtained in real time. By leveraging high-performance Android-based processing technology, quantitative results can be derived efficiently and conveniently.

8-INCH ROBUST TABLET



2.0GHz, 8 cores high-speed processor



6+128GB large memory



8200 mAh high capacity battery



Based on Android 10, more smooth operation



CAPPLICATIONS













C SOFTWARE

☐ Hi-Survey Field Software

- High-performance laser point cloud & image processing engine for real-time solutions and visualization.
- Precision heat map display allows users to monitor accuracy in real time.
- Integrates industry-leading CAD & real-scene engines for an intuitive, visual measurement and layout experience.



■ Office Software for Post-processing

- Hi-LiDAR software refines real-time data, delivering point clouds with sub-2 cm thickness and <1 cm relative measurement precision.
- Automated excavation analysis: Calculates over/under-excavation for tunnel sections, enabling construction progress tracking and validation.
- Advanced section visualization & drafting: Supports horizontal/vertical section views, aiding in renovation planning for older buildings with precise architectural measurements.







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TECHNICAL SPECIFICATIONS

	Channel	1408	
	- Citatine	GPS: L1C/A, L1C, L2P(Y), L2C, L5	
		BDS: B1I, B2I, B3I, B1C, B2a, B2b	
GNSS Configuration	GNSS Signal	GLONASS: L1, L2, L3	
		GALILEO: E1, E5a, E5b, E6	
		QZSS: L1, L2, L5, L6	
		NavIC: L5	
		SBAS: L1, L2, L5	
		PPP: B2b-PPP, E6-HAS	
	Output Format	ASCII: NMEA-0183, Binary	
	Output Rate	1Hz~20Hz	
	Static Data Format	GNS, Rinex	
	Real Time Kinematic	RTCM2.X, RTCM3.X	
	Network Mode	VRS, FKP, MAC, Support NTRIP protocol	
System	Operation System	Linux	
Configuration	Storage	Circulating 512GB ROM	
Accuracy and Reliability ^[1]	High-precision Static	H: 2.5 mm + 0.1 ppm RMS	V: 3.5 mm + 0.4 ppm RMS
	Static And Fast Static	H: 2.5 mm + 0.5ppm RMS	V: 5 mm + 0.5ppm RMS
	PPK	H: 8mm + 1ppm RMS	V: 15mm + 1ppm RMS
	PPP	H: 10cm	V: 20cm
	Code Differential	H: ±0.25m+1ppm RMS	V: ±0.5m+1ppm RMS
	Gnss Positioning	SBAS: 0.5m (H), 0.85m (V)	
	Real Time Kinematic (RTK)	H: 8mm+1ppm RMS	V: 15mm+1ppm RMS
		Initialization time: Typically <10s	Initialization reliability: Typically > 99.9%
	Tilt Survey Performance[2]	8mm+0.3mm/°tilt	
	Ar Stakeout	Support	
	Image Measurement	A single photo can acquire multiple point coordinates with an accuracy of 5cm ^[3]	
	Real-time Accuracy Evaluation	Supports	
	Pixel	3 professional HD front cameras, 1bottom camera	
Camera	Function	Support AR stakeout, image measurement, working distance 2~15m	
Laser Scanner	Range	0.1~ 40m@10%, 0.1~ 70m@80%	
	Point Measurement Rate	200,000 pts/sec	
	Laser Product Classification	Class 1 eye safe	
	FOV	H: 360° V: 59°	
IMU	Update Rate	200Hz	
Communication	I/O Interface	USB type C port; SMA antenna port; Nano SIM card slot	
	Network	TDD-LTE, FDD-LTE, GSM	
	Wi-Fi Bluetooth	IEEE 802.11a/b/g/n/ac/ax, 2.4GHz/5GHz, Wi-Fi hotspot Bluetooth 5.2	
	Bidelootii	Power: 0.5W/1W adjustable Frequence: 410MHz~470MHz	
	Internal UHF Radio	Protocol: HI-TARGET, TRIMTALK450S, TRIMMARK III, SATEL-3AS, TRANSEOT, etc.	
		Channel: 116 (16 scalable)	
	Electronic Bubble	Supports	
Sensor	Tilt Survey	Built-in high-precision IMU module	
Control Panel	Physical Button	Single button	
	Display	2.8 inch, 480×640 pixel touchable screen	
	Led Lights	Mode, accuracy, network	
Application	Advanced Function	NFC, WebUI, firmware upgrade via u-disk	
	Intelligence Application	Intelligent voice, self-check	
	Remote Service	Message push, online upgrade, remote control	
	Dower ^[4]	Lithium battery, portable charger	
		Operating time (built-in battery): RTK rover(UHF/Cellular): up to 4 hours SLAM mode: up to 2 hours	
	Doworf4		
Physical	Power ^[4]	Operating time (external battery): RTK rover(UHF/Ce	
Physical			
Physical	Power ^[4] Size Weight	Operating time (external battery): RTK rover(UHF/Ce USB 45W fast charging, fully charged in 2 hours	
Physical	Size	Operating time (external battery): RTK rover(UHF/Ce USB 45W fast charging, fully charged in 2 hours Φ134.4mm×109.9mm	
	Size Weight	Operating time (external battery): RTK rover(UHF/Ce USB 45W fast charging, fully charged in 2 hours Φ134.4mm×109.9mm 1.68kg	
Physical Environments	Size Weight IP Rating	Operating time (external battery): RTK rover(UHF/Ce USB 45W fast charging, fully charged in 2 hours Φ134.4mm×109.9mm 1.68kg IP64	
	Size Weight IP Rating Humidity	Operating time (external battery): RTK rover(UHF/Ce USB 45W fast charging, fully charged in 2 hours Φ134.4mm×109.9mm 1.68kg IP64 100% non-condensing	

Note:
[1]The measurement accuracy, precision, reliability and initialization time depend on various factors, including tilt angle, number of satellites, geometric distribution, observation time, atmospheric conditions and multi-path validation, etc. The data are derived under normal conditions.
[2]Irregular operations such as rapid rotation and high-intensity vibration may affect the inertial navigation accuracy.
[3]The results are the accuracy obtained in laboratory scenarios, and some scenarios may have accuracy deviations.
[4]The battery operating time is related to the operating environment, operating temperature and battery life.

Descriptions and Specifications are subject to change without notice.