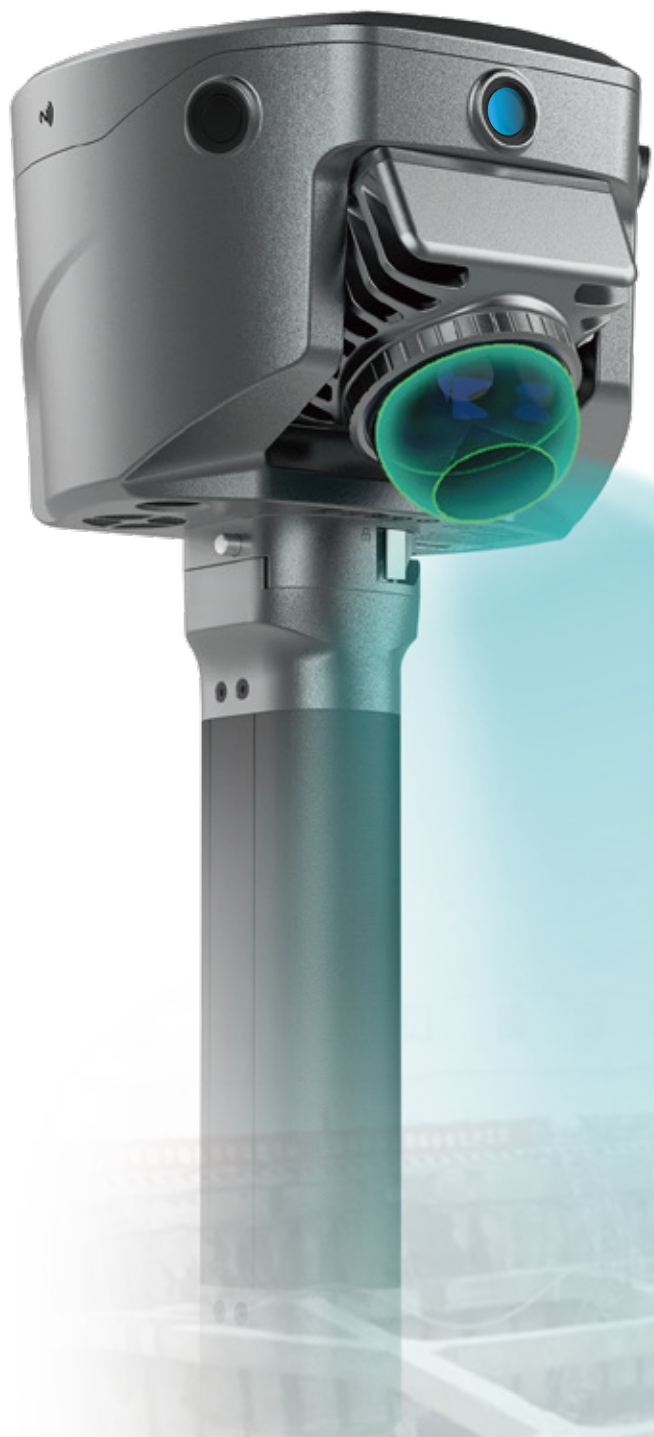


V700S

SLAM RTK





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.
- **Metal lock mechanism** securely connects the device and battery handle, ensuring stable operation.

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E:435687.323

Z: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 better than 5cm within a 15m working distance, 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/NEZ).
- 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.





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



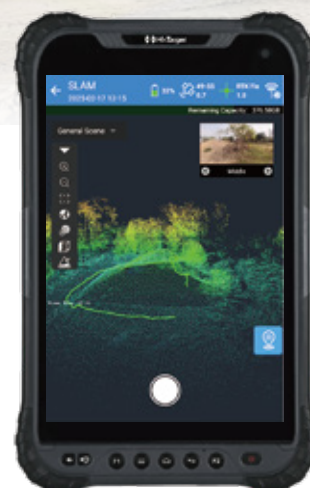
6+128GB large memory



8200 mAh high capacity battery



Based on Android 10, more smooth operation



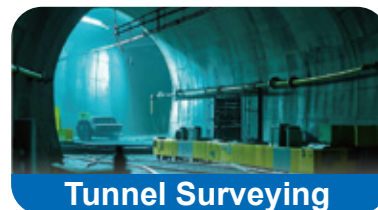
APPLICATIONS



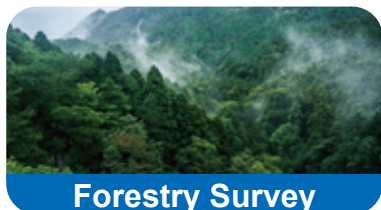
Urban Renewal



Volume Measurement



Tunnel Surveying



Forestry Survey



Underground Pipelines



Architectural Survey

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.



AUTHORIZED DISTRIBUTION PARTNER

25M220

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TECHNICAL SPECIFICATIONS

GNSS Configuration	Channel	1408	
	GNSS Signal	GPS: L1C/A, L1C, L2P(Y), L2C, L5	
		BDS: B1I, B2I, B3I, B1C, B2a, B2b	
		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	
System Configuration	Output rate	1Hz~20Hz	
	Static data format	GNS, Rinex	
	Real Time Kinematic	RTCM2.X, RTCM3.X	
Accuracy and Reliability ^[1]	Network Mode	VRS, FKP, MAC, Support NTRIP protocol	
	Operation system	Linux	
	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 GNSS Positioning	H: ±0.25m+1ppm RMS SBAS: 0.5m (H), 0.85m (V)	V: ±0.5m+1ppm RMS
	Real Time Kinematic (RTK)	H: 8mm+1ppm RMS Initialization time: Typically <10s	V: 15mm+1ppm RMS 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 better than 5cm within 15 meters ^[3]	
	Real-time accuracy evaluation	Supports	
Camera	Pixel	3 Professional HD Cameras	
	Function	Support AR stakeout, image measurement, working distance 2~15m	
Laser Scanner	Range	0.1~ 40m@10%, 0.1~ 70m@80%	
	Laser product classification	Class 1 Eye Safe	
	FOV	H: 160°	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	
	WiFi	IEEE 802.11a/b/g/n/ac/ax, 2.4GHz/5GHz, Wifi hotspot	
	Bluetooth	Bluetooth 5.2	
	Internal UHF Radio	Power: 0.5W/1W Adjustable Frequence: 410MHz~470MHz Protocol: HI-TARGET, TRIMTALK450S, TRIMMARK III, SATEL-3AS, TRANSEOT, etc. Channel: 116 (16 scalable)	
Sensor	Electronic bubble	Supports	
	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	
Physical	Power ^[4]	Lithium battery, portable charger	
		RTK rover(UHF/Cellular): up to 10 hours	SLAM mode: up to 5 hours
		USB 45W fast charging, fully charged in 2 hours	
	Size	Φ134.4mm×109.9mm	
Environments	Weight	1.68kg	
	Water/dustproof	IP64	
	Humidity	100% non-condensing	
	Operation temperature	-20 C ~+55 C	
	Storage temperature	-40 C ~+70 C	

*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.