

TECHNICAL SPECIFICATIONS

GNSS Feature	Specification	
GNSS Signal ^①	Channels	1408
	GPS	L1C(A) / L1C / L2P(Y) / L2C / L5
	BDS	B1I / B2I / B3I / B1C / B2a / B2b*
	GLONASS	L1 / L2 / L3
	Galileo	E1 / E5A / E5B / E6*
	SBAS	L1 / L2 /L5
	QZSS	L1 / L2 / L5 / L6*
	IRNSS	L5*
	L-BAND*	B2b-PPP
Positioning Performance	High-precision static GNSS Surveying	Horizontal: 2.5mm + 0.1ppm RMS Vertical: 3.5mm + 0.4ppm RMS
	Static and Fast Static	Horizontal: 2.5mm + 0.5ppm RMS Vertical: 5mm + 0.5ppm RMS
	Post Processing Kinematic (PPK / Stop & Go)	Horizontal: 8mm + 1ppm RMS Vertical: 15mm + 1ppm RMS
		Initialization time: Typically 10 min for base and 5 min for rover Initialization reliability: Typically>99.9%
	Code Differential GNSS Positioning	Horizontal: ±0.25m+1ppm RMS Vertical: ±0.5m+1ppm RMS SBAS: 0.5m(H), 0.85m(V) PPP: 0.1m(H), 0.2m(V)
	Real Time Kinematic (RTK)	Horizontal: 8mm+1ppm RMS Vertical: 15mm+1ppm RMS
	Time to first Fix	Initialization time: Typically <10s Initialization reliability: Typically > 99.9%
	Hi-Fix ^②	Cold start: < 45 s Hot start: < 30 s Signal re-acquisition: < 2 s
	Tilt Survey Performance	Horizontal: RTK+10mm / minute RMS Vertical: RTK+20mm / minute RMS Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (2.5cm accuracy in the inclination of 60°)
Communication	Communication	Bluetooth: 4.2 / 2.1+EDR, 2.4GHz Frequency: 410-470MHz Channel: 116 (16 scalable) Transmitting power: 0.5W / 1W / 2W adjustable
	Internal UHF Radio (Optional)	Supports multi-communication protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.
Physical	Internal battery	Internal 7.4V / 6800mAh lithium-ion rechargeable battery. RTK Rover (Network) for 12 hours. Static: up to 15 hours
	External power	Power consumption: 4.2W Dimensions (W×H): 132mm×67mm Charging: using standard smartphone chargers or external power banks. Weight: ≤0.8kg (includes battery) Data storage: 8GB ROM internal storage
Control Panel	LED Lamp	Satellite, Signal, Power
	Physical button	1
Environment	Water / Dustproof	IP67
	Shock and vibration	Designed to survive a 2m natural fall onto concrete
	Humidity	100%, condensing
	Operation temperature	-30℃~+70℃
I / O Interface	Storage temperature	-40℃~+80℃
	1 × USB port, Type C	
Data Formats	1 × SMA antenna connector	
	Output rate	1Hz-20Hz.
	Static data format	GNS, Rinex
	Network model	VRS, FKP, MAC; supports NTRIP protocol
	CMR& RTCM	CMR, RTCM 2.x, RTCM 3.0, RTCM 3.2
	Navigation outputs ASCII	NMEA-0183

*Description and Specifications are subject to change without notice.
1.Compliant, but subject to availability of IRNSS and Galileo commercial service definition. BDS B2b, GALILEO E6, QZSS L6, IRNSS L5 can be provided by firmware upgrade.
2.Accuracies are dependent on GNSS satellite availability. Hi-Fix positioning ends after 5 minutes of radio downtime. Hi-Fix is not available in all regions, check with your local sales representative for more information



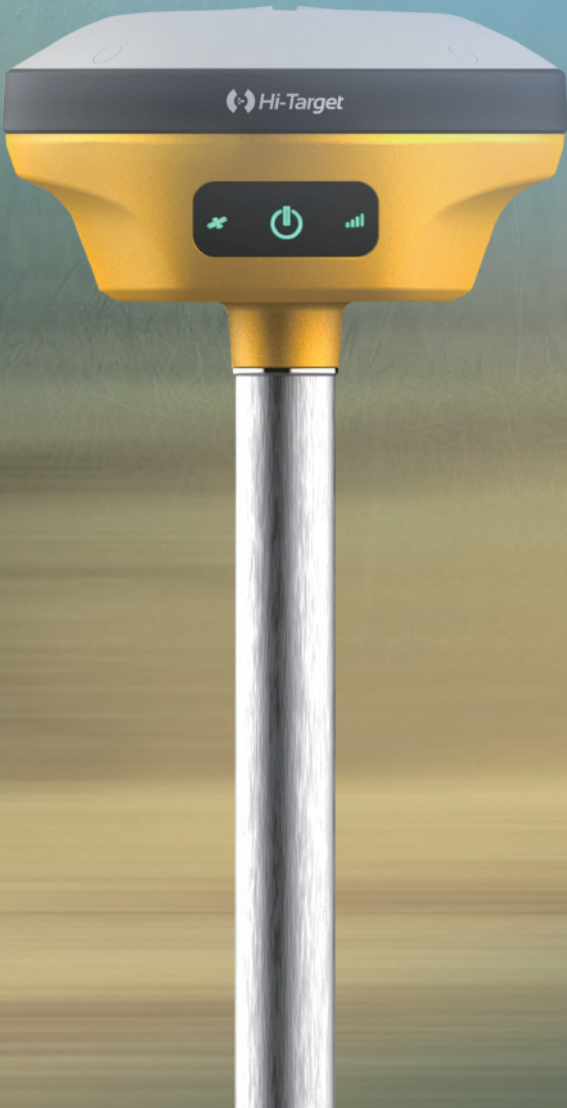
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V200
GNSS System



IP67



V200

Good things come in small packages

V200 GNSS RTK Receiver brings superior performance and high efficiency to support your fieldwork with reliable solutions. Its deployment of the advanced RTK engine and new-generation IMU guarantees a 25% performance improvement even in the most demanding environments. Thus you can count on Hi-Target V200 for better productivity.

Key Features

Advanced RTK Engine

Full-Constellation Tracking

Web UI

Built-in Radio

NFC

Compatibility with third-party software

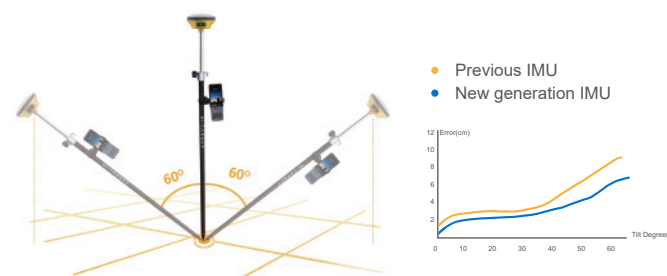
• More Portability

Equipped with an ultra-light EPP material instrument case of a high anti-strong impact, shock and impact resistance and a centering rod that can be contracted to 1.25 m, making it durable and portable in the fieldwork.



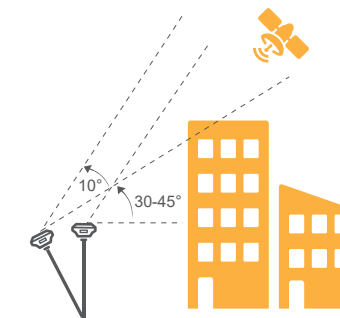
• Greater Flexibility

It can bring accurate and reliable results and boost efficient fieldwork with self-developed built-in IMU and core algorithm.



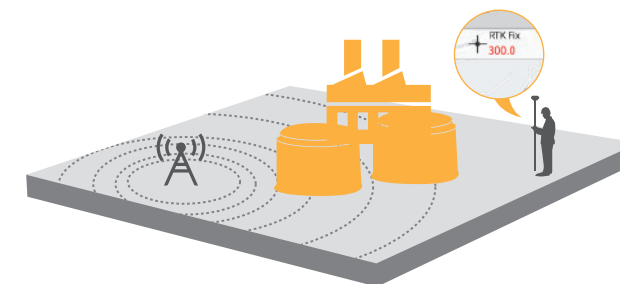
• Higher Accuracy and Precision

Equipped with the High-Performance Patch Antenna, enhances the low elevation angle tracking capabilities and keeps it maintaining a high gain for higher elevation satellites while tracking low-elevation satellites.



• More Stability

Hi-Target **Hi-Fix** enables continuous connectivity and quality results even if you lose the signal while using the RTK base station or VRS network under extreme circumstances.



Hi-Survey Road

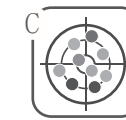
Survey Data Collection Software



Optimized tilt survey and able to complete the initialization by shaking the receiver for 2-5s and maintain a high-precision measurement status for a long time.



AR stakeout to guide directions with the intelligent voice and compass.



Users can view the number of the tracking satellites, PDOP, Elevation Mask, the current satellite constellations and other information in the sky plot interface.



Advanced CAD data management, supporting importing files of DXF, DWG format, and achieving data stakeout by the object snap functions of INT, TAN, PER, etc..

