





#### 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



Built-in Radio



Full-Constellation Tracking



NFC



Web UI



Compatibility with third-party software

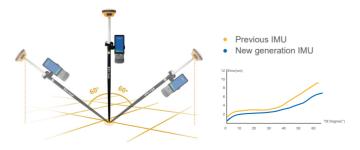
# More Portability

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.



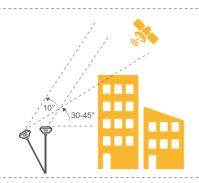
# Greater Flexibility

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



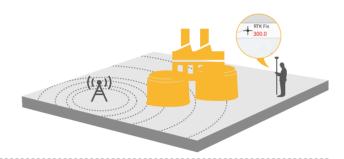
## Higher Accuracy and Precision

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.





**Survey Data Collection Software** 



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



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.



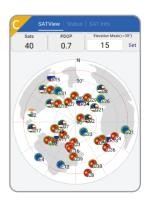
Users can view the number of the tracking satellites, PDOP, Elevation Mask, the current satellite constellations and other information in the sky plot interface.



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..









#### **TECHNICAL SPECIFICATIONS**

GNSS Feature	Specification	
ONOO I Caluic	Channels	1408
	GPS	L1C(A) / L1C / L2P(Y) / L2C / L5
		B1I / B2I / B3I / B1C / B2a / B2b
	BDS	
GNSS Signal <sup>®</sup>	GLONASS	L1/L2/L3
	Galileo	E1 / E5a / E5b / E6
	QZSS	L1/L2/L5/L6*
	NavIC	L5
	SBAS	L1 / L2 / L5
	PPP	B2b-PPP / Galileo E6-HAS
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
		Horizontal:8mm + 1ppm RMS   Vertical:15mm + 1ppm RMS
	Post Processing Kinematic	Initialization time: Typically 10 min for base and 5 min for rover
	(PPK / Stop & Go)	Initialization reliability:Typically>99.9%
	PPP	Horizontal:10cm   Vertical:20cm
		Horizontal:±0.25m+1ppm RMS   Vertical:±0.5m+1ppm RMS
	Code Differential GNSS Positioning	<b>SBAS</b> :0.5m(H), 0.85m(V)
	Real Time Kinematic (RTK)	Horizontal:8mm+1ppm RMS   Vertical:15mm+1ppm RMS
		Initialization time: Typically <10s   Initialization reliability: Typically > 99.9%
	Positioning rate	1 Hz, 5 Hz and 10 Hz
	Time to first Fix	Cold start: < 45 s   Hot start: < 30 s   Signal re-acquisition: < 2 s
	Hi-Fix <sup>®</sup>	Horizontal:RTK+10mm / minute RMS   Vertical:RTK+20mm / minute RMS
	Tilt Survey Performance®	Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (0° ~ 60°)
	Communication	
	Communication	Bluetooth:BT 5.2, 2.4GHz
	Communication	Bluetooth:BT 5.2, 2.4GHz Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n
Communication	Communication	
Communication		Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n
Communication	Communication  Internal UHF Radio	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable)
Communication		Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable
Communication	Internal UHF Radio	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable)  Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S,
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Physical	Internal UHF Radio Internal battery® External power	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm Data storage:8GB ROM internal storage
	Internal UHF Radio Internal battery®  External power  LED Lamp	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm
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Physical	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable)  Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours*  Charging:using standard smartphone chargers or external power banks.  Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm  Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68
Physical  Control Panel	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof Free fall	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68 Designed to survive a 2m natural fall onto concrete
Physical	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof Free fall Humidity	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable)  Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours*  Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm  Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68  Designed to survive a 2m natural fall onto concrete 100%, condensing
Physical  Control Panel	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof Free fall Humidity  Operation temperature	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68 Designed to survive a 2m natural fall onto concrete 100%, condensing -45°C to +75°C
Physical  Control Panel	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button Water / Dustproof Free fall Humidity Operation temperature Storage temperature	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable)  Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours*  Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm  Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68  Designed to survive a 2m natural fall onto concrete 100%, condensing
Physical  Control Panel	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof Free fall Humidity  Operation temperature Storage temperature  1 × USB port, Type C	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68 Designed to survive a 2m natural fall onto concrete 100%, condensing -45°C to +75°C
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Physical  Control Panel  Environment	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof Free fall Humidity  Operation temperature Storage temperature  1 × USB port, Type C	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68 Designed to survive a 2m natural fall onto concrete 100%, condensing -45°C to +75°C
Physical  Control Panel  Environment  I / O Interface	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button  Water / Dustproof Free fall Humidity Operation temperature Storage temperature 1 × USB port, Type C 1 × SMA antenna connector	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable)  Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours*  Charging:using standard smartphone chargers or external power banks.  Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm  Data storage:8GB ROM internal storage  Satellite, Signal, Power  1  IP68  Designed to survive a 2m natural fall onto concrete 100%, condensing -45°C to +75°C -55°C to +85°C
Physical  Control Panel  Environment	Internal UHF Radio  Internal battery®  External power  LED Lamp Physical button Water / Dustproof Free fall Humidity Operation temperature Storage temperature 1 × USB port, Type C 1 × SMA antenna connector Output rate	Wi-Fi:frequency 2.4GHz, Supports 802.11 b/g/n Frequency:410-470MHz   Channel:116 (16 scalable) Transmitting power:0.5W / 1W / 2W adjustable Supports multi-communication protocols:HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.  Internal 7.2V / 6900mAh lithium-ion rechargeable battery RTK Rover (UHF/Cellular): up to 24 hours* Charging:using standard smartphone chargers or external power banks. Weight:≤0.8kg (includes battery)   Dimensions (W×H):132mm×67mm Data storage:8GB ROM internal storage  Satellite, Signal, Power  1 IP68 Designed to survive a 2m natural fall onto concrete 100%, condensing -45°C to +75°C -55°C to +85°C
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ting environment, operating temperature and battery life.





AUTHORIZED DISTRIBUTION PARTNER

24S112

#### **Hi-Target Surveying Instrument Co. Ltd**

<sup>\*</sup>Description and Specifications are su 1.QZSS L6 can be provided by firmware upgrade.

<sup>2.</sup> 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

<sup>3.</sup>Accuracies are dependent on GNSS satellite availability. Hi-Fix Positioning ends after 5 minutes without differential data.Hi-Fix is not available in all regions, check with your local sales representative for more information.

4.Irregular operations such as rapid rotation and high-intensity vibration may affect the inertial navigation accuracy.