Compact, easy-to-use, network RTK

The V100 is a compact, lightweight and intelligent GNSS RTK Receiver. The built-in whole constellation BD970 OEM board, 4.0 standard dual-mode long-range Bluetooth and NFC module, data collection internet support and Hi-Target Cloud Service make this the most convenient and efficient receiver for the network age.

Multi-constellation Tracking

220 channels Supports GPS, GLONASS, GALILEO, BDS, SBAS NGS approved GNSS antenna

Convenient Connection

Bluetooth can be connected in seconds based on NFC technology 4.0 standard dual-mode long-range Bluetooth, compatible with 2.1 standard Bluetooth

Powerful Battery

Powered by high-capacity (6300mAh) Li-ion battery Supports power bank to charge, the battery can be used universally with iHand20 handheld battery

Wide Range of Application

V100 can be paired with varieties of handhelds and GIS data collectors, and provide an easy-to-use solution for survey and GIS professionals who need to collect highly accurate data in a variety of applications.



ⁱ Developed under a License of the European Union and the European Space Agency. ⁱⁱPrecision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions.

iiiGPS only and depends on SBAS system performance. FAA WAAS accuracy specifications are <5m 3DRMS.

Descriptions and Specifications are subject to change without notice.

HITARGET

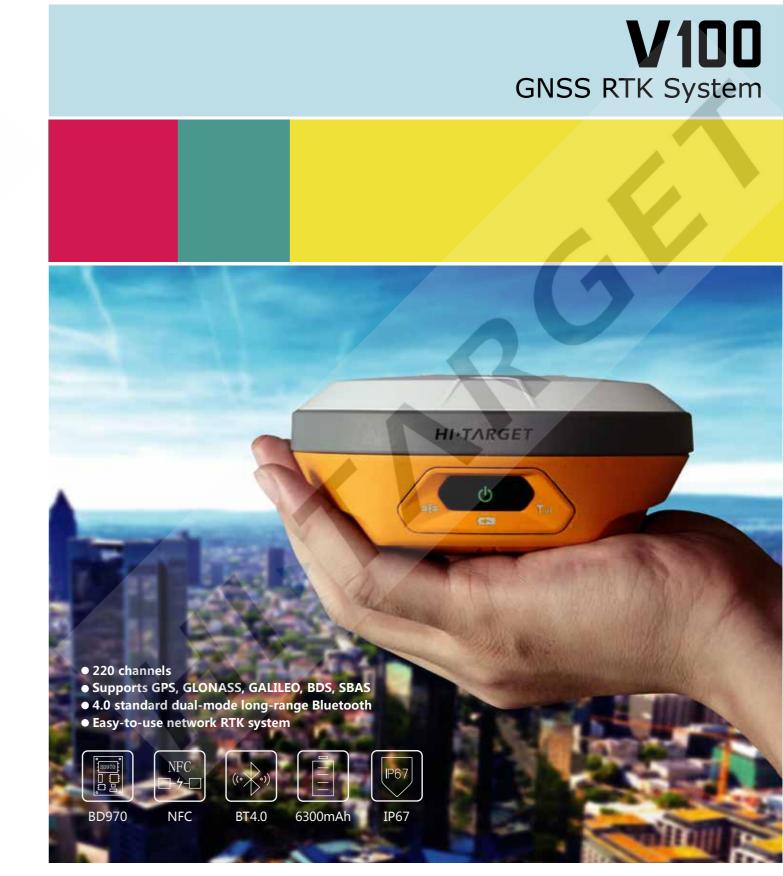
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100 PERFORMANCE SPECIFICATIO	NS
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Satellite Signals Tracke		
Channels	220	
GPS	Simultaneous L1C/A, L2C, L2E, L5	
GLONASS	Simultaneous L1C/A, L1P, L2C/A (GLONASS M only), L2P	
SBAS	Simultaneous L1 C/A, L5	
Galileo	Simultaneous L1 BOC, E5A, E5B, E5AltBOC ⁱ (Reserved)	
BDS	B1, B2	
QZSS	L1 C/A, L1 SAIF, L2C, L5	
Positioning Performan	ceii	
Real Time Kinematic(RTK) Surveying Network RTK		
Horizontal	8mm+1ppm RMS	
Vertical	15mm+1ppm RMS	
Initialization time	Typically 2-10s	
Initialization reliability	Typically > 99.9%	
Code Differential GNS		
Horizontal	25cm+1ppm RMS	
Vertical	50cm+1ppm RMS	
SBAS ⁱⁱⁱ	0.50m Horizontal, 0.85m Vertical	
High-Precision Static		
Horizontal	2.5 mm + 0.1 ppm RMS	
Vertical	3.5 mm + 0.4 ppm RMS	
Static and Fast Static		
Horizontal	2.5 mm + 0.5 ppm RMS	
Vertical	5 mm + 0.5 ppm RMS	
Hardware		
Physical		
Dimensions (W x H)	127.5mm×57mm (5.02inch x 2.24inch)	
Weight	700g (1.54lb) including internal battery	
Operating temperature	-40°C to +65°C (-40°F to +149°F)	
Storage temperature	-40°C to +75°C (-40°F to +167°F)	
Humidity	100%, condensing	
numary		
Water/dustproof	IP67 dustproof, protected from temporary immersion to depth of 2m(6.56ft)	
Shock and vibration	Designed to survive a 3m(9.84ft) natural fall onto concrete	
Electrical	Designed to survive a sm(s.o+re) natural fair onto concrete	
	3.2W	
Power consumption		
Battery	Rechargeable, removable 3.7V/6300mAh Lithium-ion battery, supports online charging	
Power input	4.5V-5.5V/ 2A DC (USB), 6V-28V/2A DC (5 pin port)	
Data storage	8GB internal storage	
Internal Battery Life		
	13 hours	
Static RTK rover	10 hours (Data collector internet)	
I/O Interface 1 x mini USB port	For data downloading, power supply and firmware wared	
•	For data downloading, power supply and firmware upgrading	
1 x 5-pin port	For NMEA output, DC power supply and external devices	
Communication		
Bluetooth	Dual-mode BT 4.0, compatible with BT 2.1, 2.4GHz	
NFC	An easy tap to establish BT connection	
Radio	Hi-Target/ Pacific Crest ADL Vantage pro external radio (optional)	
Data Formats		
Output rate	1Hz positioning output, up to 20Hz	
Message type	CMR: CMR, CMR+, sCMRx input and output RTCM: RTCM 2.1, 2.3, 3.0, 3.1, 3.2 input and output	
Navigation outputs ASCII	NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK, GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL,GRS, GBS	
Navigation outputs binary	GSOF	
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