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

Cloud Service















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. ii Precision and reliability may be subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions.

Descriptions and Specifications are subject to change without notice.

HI TARGET

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Satellite Signals Track	ed Simultaneously
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 Performa	
Real Time Kinematic(RTK) Surveying Network RTK
Horizontal	8mm+1ppm RMS
Vertical	15mm+1ppm RMS
Initialization time	Typically < 8 seconds
Initialization reliability	Typically > 99.9%
Code Differential GNS	SS Positioning
Horizontal	25cm+1ppm RMS
Vertical	50cm+1ppm RMS
SBASiii	0.50m Horizontal, 0.85m Vertical
Static and Fast Static	GNSS Surveying
Horizontal	2.5mm+1ppm RMS
Vertical	5mm+1ppm 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%, considering
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	
Power consumption	3.2W
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	
Static	13 hours
RTK rover	10 hours (Data collector internet)
I/O Interface	
1 x mini USB port	For data downloading, power supply and firmware upgrading
1 x 5-pin port	For NMEA output, DC power supply and external devices

HI TARGET







radio (optional)

Data Formats

Output rate

Message type

Navigation outputs ASCII

Navigation outputs binary GSOF



Hi-Target/ Pacific Crest ADL Vantage pro external

CMR: CMR, CMR+, sCMRx input and output RTCM: RTCM 2.1, 2.3, 3.0, 3.1, 3.2 input and output

NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK,

GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL,GRS, GBS

1Hz positioning output, up to 20Hz





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