PERFORMANCE SPECIFICATIONS

Satellite Signals Tracked Simultaneously

Channels	336
GPS	L1C/A,L2E,L2C,L5
BeiDou	
GLONASS	L1C/A, L1P, L2C/A, L3 CDMA'
Galileo3	E1, E5A, E5B, E5AltBOC, E62
IRNSS	L5
SBAS	. L1C/A,L5(QZSS,WAAS,MSAS,GAGAN)
Plated sometime to the	THE PURP CONTRACTOR OF

POSITIONING PERFORMANCE

High-Precision Static

Vertical			
Static and Fast Static:			

Vertical. ...5 mm + 0.5 ppm RMS

Post Processing Kinematic (PPK /	Stop & Go)
Horizontal	8mm+1ppm RMS
Vertical	15mm+1ppm RMS
Initialization time Typically 10 min fo	or base and 5 min for rover

........... Typically > 99.9% Code Differential GNSS Positioning

Horizontal	25cm+1ppm RMS
Vertical	50cm+1ppm RMS
SBAS	.0.5m(H), 0.85m(V)

Real Time Kinematic (RTK)

Initialization reliability.....

ATTOCK AND A STOCK OF THE STOCK	
Horizontal	8mm+1ppm RMS
Vertical	15mm+1ppm RMS

Network RTK(VRS,FKP,MAC)

Horizontal	8mm+0.5ppm RMS
Vertical	15mm+0.5ppm RMS
Initialization time	Typically 2-10s
Initialization reliability	Typically > 99 99%

Tilt Survey Performance

2cm accuracy in the inclination of 30 degree

HARDWARE

Physical

Dimensions (W x H)	158mm x 98mm (6.22inch x 3.86inch)
Weight lighter than	1.3kg (2.65lb) within internal battery
Operation temperature	40°C~+75°C (-40°F~+167°F)
Storage temperature	50°C~+85°C (-58°F~+185°F)
Temperature control	Auto-adjust the working power to maintain the temperature
Humidity	
	dustproof, protected from temporary ersion to depth of 1m (3,28ft)

Shock and vibration	MIL-STD-810G, 514.6
Anti-salt spray	MIL-STD-810G, 509.4, 96h
Free fall	MIL-STD-810G, 516.6, designed to survive
	a 2m/6 56ft) natural fall onto concrete

Electrical

6V to 28V DC external power input(5-pin port), with over-discharge protection power consumption 4.4W Automatic switching between internal power and external power

hysical button	1
Display	
Touchscreen	Support glove mode and wet-finger mode

7.4V, 6800mAh lithium-ion rechargeable and removable battery. RTK rover(UHF/Cellular) for 10 hours.

Power indicator embedded.

Ouick charge within 3.5 hours.

Bluetooth 4.0/2.1+ EDR, 2.4 GHz. USB 2.0 port with OTG function. 1 SMA antenna connector. 1 DC power input(5-pin). 1 SIM card slot Near Field Communication(NFC)

Communication

Network Communication

Full band support for cellular mobile network(LTE, WCDMA, EDGE, GPRS, GSM). Wi-Fi frequency is 2.4G, supports the standard protocol 802.11 b/g/n. Network RTK(in CORS)

Internal LIME Transcoiver Padio

Frequency	
Transmitting power	1~4W Hi-Target Advanced Radio
Supports most of the radio protocols: H	I-TARGET, TRIMTALK450S, TRIMMARK III, SATEL-
3AS, TRANSECT, SOUTH, CHC	
Morking Pange	Tunically 3_5km ontimal 5_9km

External UHF Radio

Frequency	410~470MHz
Transmitting power	5W / 25W
Compatible with third party radio	
Working Range	Typically 8~10km, optimal 15~20km

SYSTEM CONFIGURATION

System

Data storage		Circulatin	g 16GB	Internal storage
	Record GNS a	and RINEX	format	simultaneously

Data Formats

1Hz positioning output, up to 50Hz. CMR, RTCM2.X, RTCM3.0, RTCM3.1, RTCM3.2. Navigation outputs ASCII: NMEA-0183 GSV, AVR, RMC, HDT, VGK, VHD, ROT, GGK, GGA, GSA, ZDA, VTG, GST, PJT, PJK, BPQ, GLL, GRS, GBS. Binary: Trimble GSOF, NMEA2000

1. The hardware of this product is designed for Beidou B3 compatibility (trial version) and its firmware will be enhanced to fully support such new signals as soon as the officially published signal interface control documentation (ICD) becomes available.

2. There is no public GLONASS L3 CDMA or Galileo E6 ICD. The current capability in the receivers is based on publicly available information. As such, Trimble cannot guarantee that these receivers will be fully compati

3. Developed under a License of the European Union and the European Space Agency

Descriptions and Specifications are subject to change without notice





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19J301

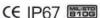
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iRTK 5 GNSS RTK SYSTEM

Benefiting from the next-generation GNSS engine, unlimited communication technology and innovative designs, iRTK5, the high quality scalable GNSS receiver, provides an industry-leading GNSS RTK surveying solution.



Hi-RTP[™] Global PPP Service

The correction source has been extended by Hi-RTP™ global correction service provided by Hi-Target. Enabling users to work without a base-station in rural or remote areas anywhere in the world.

- -Provide centimeter-level global precision
- -Harness all constellation signals from BDS, GLONASS, GPS, GALILEO
- -More than 220 reference stations
- -L band satellite radio/ internet broadcast



Unlimited Communication 360° Omni-directional Antenna and Multiprotocol Radio

The top-mounted radio antenna extends the radio working range and enables full omni-directional communication, making the transmitting and receiving distance more than 20% longer. Multi-protocol radio, support Hi-Target, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, SOUTH, CHC



Revolutionary Tilt Survey with Built-in IMU

Customer benefit from calibration free for tilt survey without centering. Once you reach the surveying points, immediately start the operation. Compared with bubble leveling, boost working efficiency by 20%.



Error less than 2 cm within 30° inclination



Resistance to the interference of magnetic disturbances, ensure high accuracy.

Innovative Design







Waterproof Touchscreen





Power Indicator



3rd Party Software



Web UI

Hi-Survey Software



Brand new UI, easier to understand and use



Professional programs in road application such as side slop settingout, DTM stakingout etc



Basemap from online maps, DXF and SHP data

iHand30

- Android 6.0
- Type C USB port
- 1.5GHz 64-bit CPU, 2G RAM, 16G Internal Storage
- WiFi & Cellular simultaneous working
- IP 67

Hardware Configuration	Communication Interface	Physical Features
OS: Android 6.0 Processer: MTK6737, 1.5GHz, 4 core RAM: 2G Storage: 16GB(up to 128GB external storage) Display: 3.7", 640 x 480, sunlight readable Camera: 8MP, tag available Sensors: G-sensor, E-compass, barometer light-field sensor, gyro	Ceilular mode: Dual SIM card, dual stand-by Ceilular network: 4G TDD-LTE, FDD-LTE, WCDMA, GPRS Wi-Fr: IEEE 802.11b/g/n, 2.4GHz/5GHz Bluetooth: V2.0/4.0 USB: Type-C, supports OTG NFC	Weight: 440g(within battery) Size: 208mm*83mm*24mm Operating temperature: -20°C~+60°C Storage temperature: -30°C~+70°C Free fall: 1.2m 1P67