PERFORMANCE SPECIFICATIONS

.B2b-PPP, Galileo E6-HAS

Satellite Signals Tracked Simultaneously ¹		
	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	
QZSS	L1, L2, L5, L6*	
NavlC	L5	
CDAC	14 12 15	

POSITIONING PERFORMANCE²

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

..5 mm + 0.5 ppm RMS Post Processing Kinematic (PPK / Stop & Go)

Horizontal	8mm+1ppm RMS
Vertical	15mm+1ppm RMS
Initialization time Typically 10 m	in 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	10cm(H), 20cm(V)

Real Time Kinematic (RTK)

Sing	le Ba	seline
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Horizontal	8mm+1ppm RMS
Vertical	. 15mm+1ppm RMS

Network RTK(VRS,FKP,MAC)

Horizontal	8mm+0.5ppm RIVIS
Vertical	15mm+0.5ppm RMS
Positioning rate	1 Hz, 5 Hz and 10 Hz
Initialization time	Typically 2-10s
Initialization reliability	Typically > 99.99%
Hi-Fix ³	
Horizontal	RTK + 10 mm/minute RMS

Vertical... Tilt Survey Performance⁴

Additional horizontal pole-tilt uncertainty typically less than 8 mm +0.7 mm / °tilt (0° ~ 60°)

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	100%, condensing

1.QZSS L6 can be provided by firmware upgrade.

2.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.

check with your local sales representative for more information.

..RTK + 20 mm/minute RMS

5.The battery operating time is related to the operating environment, operating temperature and battery life.

Descriptions and Specifications are subject to change without notice





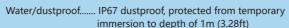
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MIL-STD-810G, 514.6 Shock and vibration.... . MIL-STD-810G, 509.4, 96h Anti-salt spray... Free fall.. . MIL-STD-810G, 516.6, designed to survive a 2m(6.56ft) natural fall onto concrete

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

Control Panel

Physical button	
Display	1.3" OLED Touch Screen
LED Lights	Satellite, Signal, Power

Batterv⁵

7.2 V, 6900 mAh lithium-ion rechargeable and removable battery. RTK rover(UHF/Cellular) for 24 hours.

Power indicator embedded. Quick charge within 3.5 hours.

Bluetooth 4.0/2.1+ EDR, 2.4 GHz. USB 3.0 port, OTG function. 1 SMA antenna connector. 1 DC power input(5-pin),1 SIM card slot.

Communication

Network Communication

Near Field Communication(NFC)

Full band support for cellular mobile network(LTE, WCDMA, EDGE, GPRS, GSM). 2.4GHz Wi-Fi, supports the standard protocol 802.11 b/g/n. Network RTK(in CORS) range is 20-50km.

Internal UHF Transceiver Radio

Frequency	403~473MHz
Transmitting power	1~5W Hi-Target Advanced Radio
Supports protocols: HI-TARGET, TRIMTALK4	50S, TRIMMARK III, SATEL-3AS, TRANSEOT, etc.
Working Range	Typically 3~5km, optimal 8~15km

External UHF Radio

Frequency	403~473MHz
Transmitting power	10W / 35W
Compatible with third party radio	
Wedler Breez	T -1 0 40 11 4E 20

SYSTEM CONFIGURATION

System

Data storage	Circulating 16GB Internal storage
	Record GNS and RINEX format simultaneously
Data Formats	,
Output rate	1Hz-20Hz
	GNS, Rinex Dual Format Static Data
Network model	VRS, FKP, MAC; supports NTRIP protocol
	RTCM2.X, RTCM3.X, CMR
Nacionalism subsects ACCI	NIMEA 0402

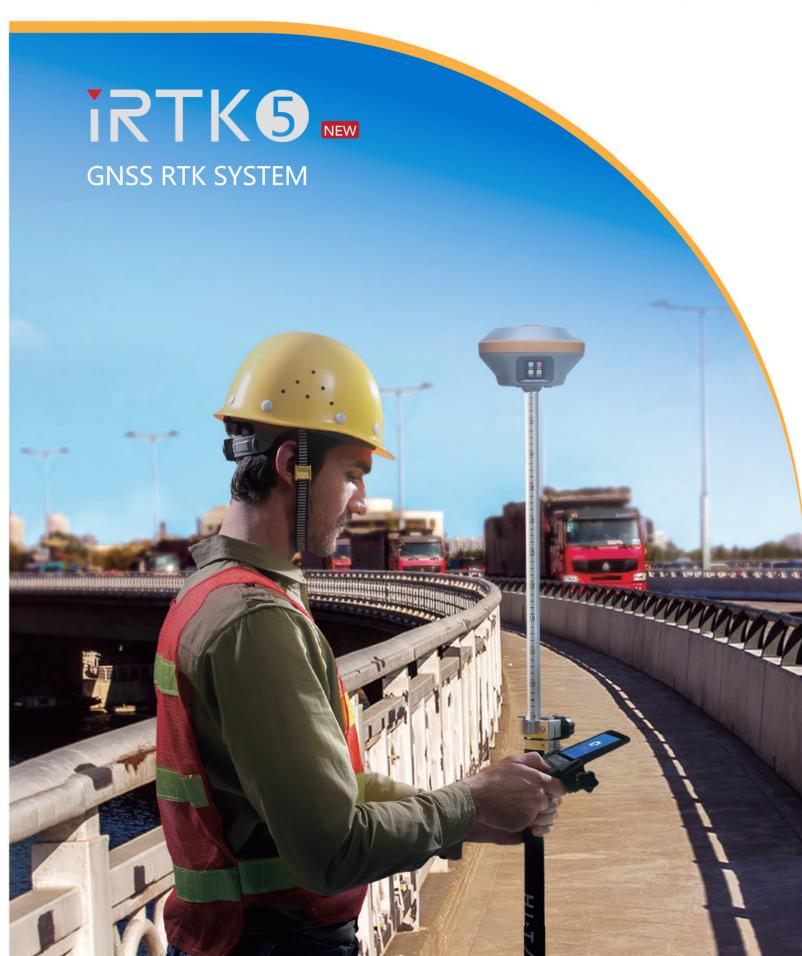
Navigation outputs ASCI...

3.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,

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







iRTK5 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 industryleading GNSS RTK surveying solution.





Next-Generation GNSS Engine

With the full-wave GNSS antenna and the next-generation GNSS engine, it supports full constellation by 1408 tracking channels, enhanced initialization speed and anti-noise performance.



Hi-Fix Technology

It can reduce downtime in the field with continuous RTK coverage during correction outages from an RTK base station or VRS network.



Unlimited Communication

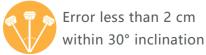
360° Omni-directional Antenna and Multi-protocol Radio

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



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%.





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

Innovative Design



Reddot design award









3rd Party Software





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

iHand55

- Android 11
- Type C USB port
- 3GB RAM+32GB ROM
- WiFi & Cellular simultaneous working
- IP68



Hardware Configuration

OS: Android 11 Processer: CPU: 8 core; 2.0 GHZ Storage: 3GB RAM+32GB ROM T-Flash memory card, up to 128GB Display: 720*1440, 5.5", 500 nit, bright Outdoor Color capacitive multi-touch screen

Input Configuration: Qwerty full keyboard, number / letter separate, professional custom smart input method

Communication Interface

Network modem: FDD-LTE B1/B3/B5/B7/B8/B20/B28/B2/B4/B12/B17 TDD-LTE B38/B39/B40/B41/B34 TDSCDMA B34/B39 WCDMA B1/B2/B5/B8/B4 GSM B2/B3/B5/B8 CDMA1x/CDMA2000 BC0 Cellular mobile:4G, Dual SIM WiFi:IEEE 802.11 a/b/g/n, Wapi, AP Bluetooth: Built-in Bluetooth (5.1+BLE)

USB:USB, TypeC interface, OTG

Physical Features Weight: 406g(within battery)

Size: 221 mm*78 mm*16.5 Operating temperature: -30°C ~ +60°C Storage temperature: -40°C ~ +80°C Free fall:1.2 m Shock and vibration: MIL-STD-810H