PERFORMANCE SPECIFICATIONS

Satellite Signals Tracked Simultaneously[1]

Channels.....1408
GPS..... L1C(A)/L1C/L2P(Y)/L2C/L5
GLONASS..... L1/L2/L3
BDS B1I/B2I/B3I/B1C/B2a/B2b
Galileo..... E1/E5a/E5b/E6
SBAS L1/L2/L5
QZSS L1/L2/L5/L6
IRNSS L5

Positioning Performance
High-precision static GNSS Surveying

Horizontal ..... 2.5mm + 0.1ppm RMS
Vertical ..... 3.5mm + 0.4ppm RMS

Static and Fast Static

Horizontal.....2.5 mm + 0.5 ppm RMS
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 for base and 5 min for rover
Initialization reliability..... Typically > 99.9%

Code Differential GNSS Positioning

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

Network RTK

Horizontal..... 8mm+0.5ppm RMS
Vertical..... 15mm+0.5ppm RMS
Initialization time ..... Typically 2-10s
Initialization reliability..... Typically > 99.9%

Real Time Kinematic (RTK)

Horizontal..... 8mm+1ppm RMS
Vertical ..... 15mm+1ppm RMS

Hi-Fix[2]

Horizontal.....RTK + 10 mm/minute RMS
Vertical.....RTK + 20 mm/minute RMS

Tilt Survey Performance[3]

Additional horizontal pole-tilt uncertainty typically less than
8mm+0.7mm/°tilt (2.5cm accuracy in the inclination of 60°)

Communication

Internal UHF Radio

Frequency..... 403-473MHz
Channels .....116 (16 adjustable)
Working range..... 3-5km typical, 5-8km optimal
Transmitting power..... 1W/2W/4W adjustable
Supports multiple protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.

External UHF Radio

Frequency.....410-470MHz
Channels 8
Transmitting power.....5W/25W adjustable
Supports multiple protocols: TRIMTALK450S, TRIMMARK III, TRANSEOT

Network Communication

Bluetooth ..... 4.0/2.1+EDR, 2.4GHz
4G Network ..... TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM
Wi-Fi frequency 2.4GHz
Wi-Fi protocol 802.11b/g/n

Power Supply

Internal Battery

5000mAh lithium-ion rechargeable and removable battery
RTK Rover (UHF/Cellular) for 10 hours

External Power

6-28V DC external power input (5-pin port) with over-charge protection
Power consumption..... 4.2W

Physical

Dimensions(W×H)..... 164mm×83.5mm
Weight ..... ≤1.4kg (includes battery)
Data storage ..... 8G internal storage

I/O Interface

1 × Mini USB port
1 × TNC antenna connector
1 × DC power input (5-pin)
1 × SIM card slot

Control Panel

Physical button 1
LED lamp .....Satellite, Signal, Power

Environment

Water/Dustproof IP67
Shock and vibration..... Survive from 2m natural fall on to ground
Humidity.....100% condensing
Operation temperature .....-45℃~+75℃
Storage temperature .....-55℃~+85℃

Data Formats

Output rate 1-20Hz
Static data format.....GNS, Rinex
Network model.....VRS, supports NTRIP protocol
Message type ..... CMR, RTCM 2.x, RTCM 3.0, RTCM 3.2
Navigation outputs ASCII.....NMEA-0183

*Description and Specifications are subject to change without notice.
1. QZSS L6 can be provided by firmware upgrade.
2. Accuracies are dependent on GNSS satellite availability. Hi-Fix positioning ends after 5 minutes of radio downtime. Hi-Fix is not available in all regions, check with your local sales representative for more information.
3. Irregular operations such as rapid rotation and high-intensity vibration may affect the inertial navigation accuracy

AUTHORIZED DISTRIBUTION PARTNER

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Hi-Target
Surveying the World,Mapping the Future

V30 PLUS

GNSS RTK SYSTEM

V30 PLUS

GNSS RTK SYSTEM

With its built-in multi-constellation GNSS engine, smaller dimension, and industrial-grade compact design, V30Plus provides a flexible GNSS work solution. It also integrates with the WebUI, WIFI, Bluetooth and 4G module to make data management and transmission more convenient and faster. Accompanied by Hi-Target professional field surveying software and its up-to-10-hours working time, V30Plus meets users' needs of efficient and convenient surveying experience.

83.5mm HEIGHT / 164mm DIAMETER / 1200g WEIGHT

Multi-Constellation GNSS Engine

- Tracking full-constellation satellites to achieve accurate and stable positioning accuracy.
- Provides reliable results in harsh environments with its unique GNSS positioning algorithm.

Tilt Survey and Electronic Bubble

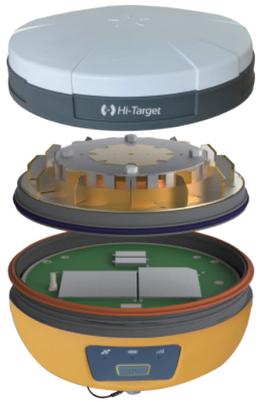
- The optimized tilt survey algorithm and procedure electronic bubble can achieve conner points measurement by shaking the receiver.

Hi-Fix Technology

- Reduce downtime in the field with continuous RTK coverage during correction outages from an RTK base station or VRS network.

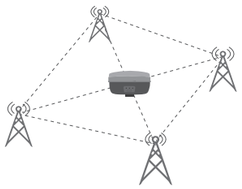
Full-frequency air antenna

- Stable and better noise resistance full-wave GNSS antenna.
- Supports a wide range of satellite tracking signals.
- Reduce the multipath effect influence.



Smart application

- Built-in Linux system and 8G storage.
- Intelligent management of the static data.
- Intelligent voice assistant to guide field operations.
- Standard Rinex data and Hi-Target raw data recorded simultaneously.



Data communication

- Compatible with other vendors' communication protocols.
- Long transmission distance, and good electromagnetic compatibility.
- Perfectly compatible with a variety of CORS systems.

iHand55

Professional Field Controller

The iHand55 Handheld Controller is a professional field controller with a big vision.More features of the latest Hi-Survey Software contribute to achieving high intelligence. Keeping robust and reliable in fieldwork under any conditions, iHand55 is a perfect choice for your survey work.

KEY FEATURES

- Ergonomically designed, lighter and easy to hold.
- Industrial-grade protection that can withstand tough environments.
- Convenient wireless data transmission via Bluetooth, Wi-Fi and 4G.
- Quick charge, with a large capacity lithium battery to ensure a whole day work.

Hardware Configuration	OS: Android 10 Processer: CPU: 8 core; 2.0 GHZ Storage: 2 GB RAM+16 GB ROM; T-Flash memory card, up to 128GB Display: 720*1280, 5.5", bright Outdoor Colorcapacitive touch screen (with touch pen, can be operated with gloves) Input Configuration: Physical full keyboard,number / letter separate, professional custom smart input method
Communication	Cellular mobile:4G, Dual SIM WiFi:IEEE 802.11 b/g/n, Wapi, AP Bluetooth:Built-in Bluetooth (2.1+4.0) NFC USB:USB, TypeC interface, OTG
Physical	Weight:480g(within battery) Size:236 mm*85 mm*25 mm Operating temperature:-20℃ ~ +60℃ Storage temperature:-30℃ ~ +70℃ Free fall:1.2 m Shock and vibration:MIL-STD-810H
GNSS Features	GNSS:GNSS antenna, GPS, GLONASS, BDS, AGPS, 20 channels
Power Supply	Battery: 7500 mAh internal Duration: 14 hours

Hi-Survey

Survey Data Collection Software

Hi-Survey is an Android software that is designed for all types of land survey and road engineering projects in the field. It is compatible with Hi-Target professional controllers, Android phones, tablets and other third-party Android devices. It is a sleek and easy-to-use software that supports the operating of big data with built-in tools. With customized industrial application solutions, more possibilities are created for users.

KEY FEATURES

High accuracy and good reliability with various algorithms even in tough environments.

Supporting tilt survey, quasi-dynamic technology, electronic bubble, detail survey, time mode static survey, etc..

Integrated professional measurement functions for engineering application.

Providing road functions, DTM surface operations, Cross-projects points selection, DXF and DWG format, Google map, OGC map service of WMS, WMTS, and third-party rangefinders, etc..

Strong interaction function to empower every surveyor.

▶AR stakeout, QR code scanning, COGO, FTP transmission, multi-format support, etc..