PERFORMANCE SPECIFICATIONS

Satellite Signals Tracked Simultaneously[1]

Channels...800+
GPS.. L1/L2/L5/L2C
GLONASS.. L1/L2/L3
BDS B1/B2/B3/B1C/B2a
Galileo.. E1/E5 AltBOC/E5a/E5b/E6
SBAS L1/L5
QZSS L1/L2/L5/L6
NavIC (IRNSS) L5
Global correction service... Hi-RTP (optional)
Base and Rover .... Interchangeable

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
Electronic Bubble / tilt survey 2.0

Tilt Survey Performance
5cm accuracy in the inclination of 30°

Communication
Internal UHF Radio
Frequency.. 403-473MHz
Channels ....116 (16 adjustable)

Transmitting power.. 1W/2W/4W adjustable
Supports multiple protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, TRANSEOT, SATEL-3AS, etc.
Working range .... 3-5km typical, 5-8km optimal

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.Compliant, but subject to availability of IRNSS and Galileo commercial service definition. IRNSS L5 and Galileo E6 will be provided through future product 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.

Hi-Target Surveying Instrument Co., Ltd

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CE IP67

V30 PLUS
GNSS RTK SYSTEM

Hi-Target
*Surveying the World,Mapping the Future*

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.
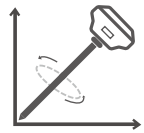
83.5_{mm} / 164_{mm} / 1200_g
HEIGHT / DIAMETER / WEIGHT
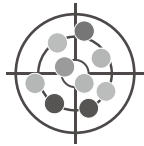
Multi-Constellation GNSS Engine

- 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.
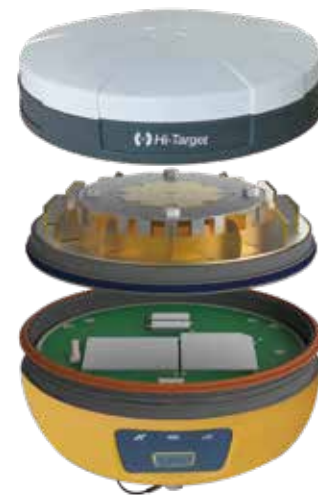
Smart application

- 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.
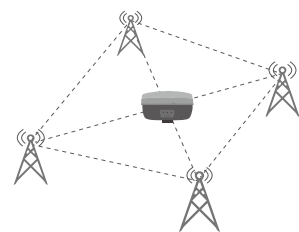
Data communication

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

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iHand55

Professional Field Controller

The iHand55 Handheld Controller is a professional field controller with a big vision.More features of the latest Hi-Survey Road 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 Road

Survey Data Collection Software

Hi-Survey Road 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..