



V30 PLUS

GNSS RTK SYSTEM

With its built-in multi-constellation GNSS engine, smaller dimension, and industrial-grade compact design, V30 Plus provides a flexible GNSS working 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-18-hourworking time, V30 Plus meets users' needs of efficient and convenient surveying experience.





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 corner points measurement by shaking the receiver.



Hi-Fix Technology

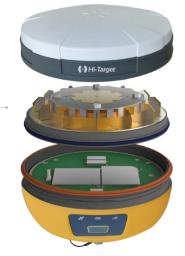
 Reduce downtime in the field with continuous RTK coverage during correction outages from an RTK base station or VRS network.

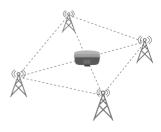
Full-frequency air antenna

- Stable full-wave GNSS antenna with excellent noise resistance.
- 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



5.5" sunlight readable display capacitive touch screen for fingers or stylus.



QWERTYfull keyboard designed, convenient for different measurement application scenarios.



Android 11 operating system equipped to maintain the productivity of numerous survey projects and data.

Hardware Configuration	OS: Android 11 Processer: CPU: 8 core; 2.0 GHZ Storage: 3GB RAM+32GB ROMT-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	Cellular mobile: 4G, Dual SIM WiF: IEEE 802.11 a/b/g/n, Wapi, AP Bluetooth: Built-in Bluetooth (5.1+BLE) NFC USB: USB, TypeC interface, OTG
Physical	Weight: 406g(within battery) Size: 221 mm*78 mm*16.5 mm Operating temperature: -30 C ~+60 C Storage temperature: -40 C ~+80 C Free fall:1.2 m Shock and vibration: MIL-STD-810H
GNSS Features	GNSS: GNSS antenna, GPS, GLONASS, BDS, AGPS, 20 channels
PowerSupply	Battery: 9200 mAh internal Duration: 15 hours

Hi-Survey

Survey Data Collection Software

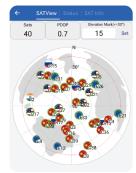
Hi-Survey is an Android software that is designed for all types of land survey and road engineering projects in the field. It is compatible with Hi-Target professional controllers, Android phones, tablets and other third-party Android devices. It is a sleek and easy-to-use software that supports the 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

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..

PERFORMANCE SPECIFICATIONS Satellite Signals Tracked Simultaneously¹ Supports multiple protocols: HI-TARGET, TRIMTALK450S, TRIMMARK III, GPS.....L1C/A, L1C, L2P(Y), L2C, L5 TRANSEOT, SATEL-3AS, etc. External UHF Radio GLONASS......L1, L2, L3 QZSS......L1, L2, L5, L6* Supports multiple protocols: TRIMTALK450S, TRIMMARK III, TRANSEOT NavlC......L5 SBAS......L1, L2, L5 **Network Communication** Positioning Performance² High-precision static GNSS Surveying 4G Network TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM Horizontal 2.5mm + 0.1ppm RMS Static and Fast Static Power Supply Internal Battery⁵ Internal 7.2V / 5100mAh lithium-ion rechargeable and removable battery Post Processing Kinematic (PPK / Stop & Go) RTK Rover (UHF/Cellular) for 18 hours **External Power** 6-28V DC external power input (5-pin port) with over-charge protection Power consumption......4.2W Code Differential GNSS Positioning Vertical 50cm+1ppm RMS Weight≤1.4kg (includes battery) Real Time Kinematic (RTK) I/O Interface 1 × Mini USB port 1 × TNC antenna connector 1 × DC power input (5-pin) 1 × SIM card slot Control Panel Time to first Fix Physical button1 Cold start.....<45 s Hot start.....< 30 s LED lampSatellite, Signal, Power Signal re-acquisition....<2 s Environment Hi-Fix³ Water/DustproofIP67 Horizontal.....RTK + 10 mm/minute RMS Free fall...... Survive from 2m natural fall on to ground VerticalRTK + 20 mm/minute RMS Operation temperature-45°C~+75°C Tilt Survey Performance4 Additional horizontal pole-tilt uncertainty typically less than Storage temperature-55°C~+85°C

Data Formats

Static data format.......GNS. Rinex

Network model......VRS, FKP, MAC, Support NTRIP protocol

Navigation outputs ASCII.....NMEA-0183

Communication

8mm+0.7mm/°tilt (0° ~ 60°)

Internal UHF Radio

Channels116 (16 adjustable)

*Description and Specifications are subject to change without notice.

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.

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,

check with your local sales representative for more information.

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

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





AUTHORIZED DISTRIBUTION PARTNER

240124

Hi-Target Surveying Instrument Co., Ltd

ADD: Building 13, Tian'An Technology Zone HQ Center, No. 555, North of Panyu RD, Panyu District, 511400 Guangzhou, China. www.hi-target.com.cn +86-20-28688296 sales@hi-target.com.cn

