PERFORMANCE SPECIFICATIONS

Satellite Signals Tracked Simultaneously

Channels..... 440
GPS..... L1, L2, L5
BeiDou..... B1, B2, B3
GLONASS..... L1, L2
Galileo..... E1, E5A, E5B
QZSS..... L1, L2, L5
SBAS..... L1

POSITIONING PERFORMANCE

High-precision static GNSS Surveying

Horizontal..... 2.5mm + 0.5ppm RMS
Vertical..... 5mm + 0.5ppm RMS

Real Time Kinematic (RTK)
Single Base

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

Network RTK

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

Communication

Network Communication

Bluetooth 4.0/2.1+EDR, 2.4GHz
4G cellular mobile network (TDD-LTE, FDD-LTE, WCDMA, EDGE, GPRS, GSM)
Wi-Fi frequency 2.4GHz, supports 802.11b/g/n protocol

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

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

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

Control Panel

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

Environment

Water/Dustproof IP67
Shock and vibration: Designed to survive a 2m natural fall onto concrete
Humidity.....100% condensing
Operation temperature .....-45℃~+75℃
Storage temperature .....-55℃~+85℃

External UHF Radio

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

Data Formats

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

AUTHORIZED DISTRIBUTION PARTNER

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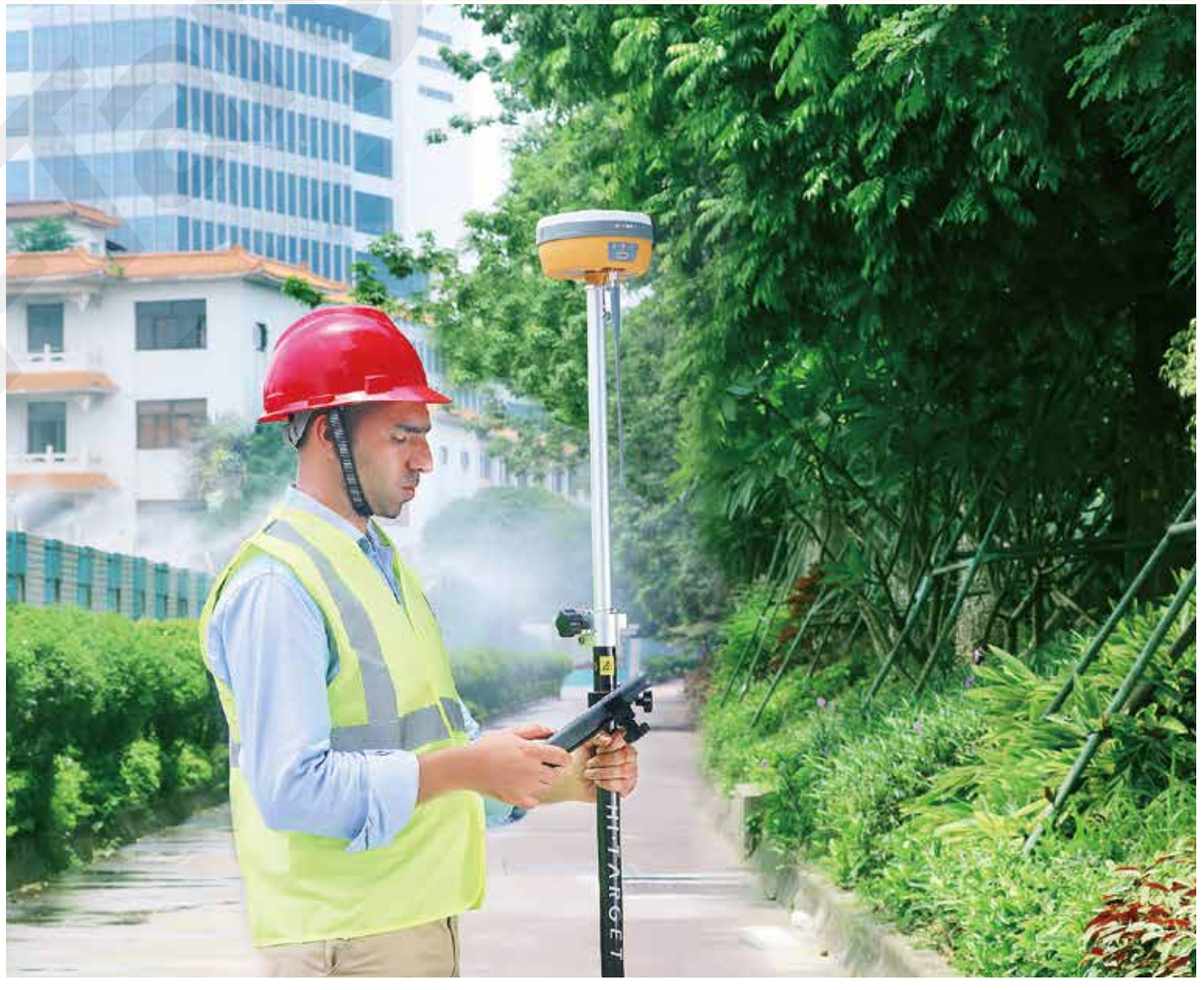
CE IP67

Hi-Target
Surveying the World,Mapping the Future

V30 PLUS

GNSS RTK SYSTEM



NFC UHF

83.5mm HEIGHT / 164mm DIAMETER / 1200g WEIGHT

V30 PLUS

GNSS RTK SYSTEM

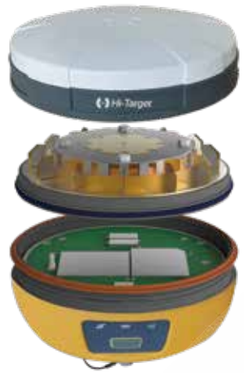
With its built-in multi-constellation GNSS engine, smaller dimension, and industrial-grade compact design, V30Plus provides a flexible GNSS work solution. It also integrates with the WebUI, WIFI, Bluetooth and 4G module to make data management and transmission more convenient and faster. Accompanied 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.

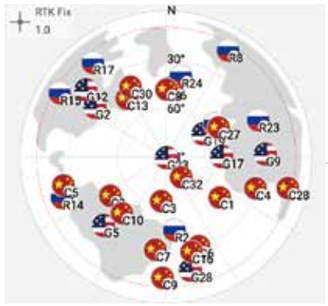
Smart application

- 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.

Full-frequency air antenna

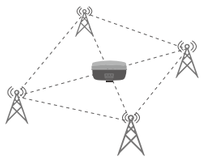
- Stable and better noise resistance full-wave GNSS antenna.
- Supports a wide range of satellite tracking signals.
- Reduce the multipath effect influence.





Multi-constellation GNSS engine

- 440 tracking channels, extendable to 600.
- Auto-selection satellite constellations.
- Provides reliable results in harsh environments with its unique GNSS positioning algorithm.



Data communication

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

WebUI

- Intelligent query device information.
- Intelligent management of the device status automatically.

iHand30

Professional Field Controller

The iHand30 is a rugged field controller that is designed for data collection and GNSS device control. Based on the Android operating system, it is compatible with Hi-Target professional software and third-party Android software. Combining the physical keyboard with a touchscreen, it can boost efficient fieldwork and provide reliable solutions for users.

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.

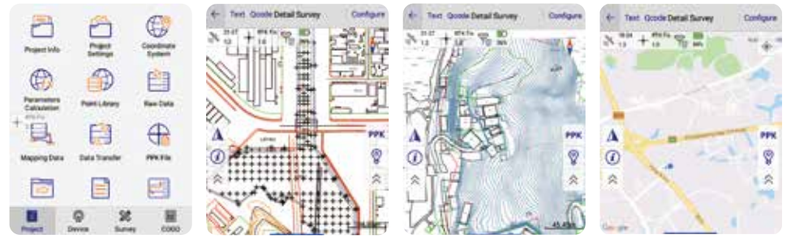
Hardware Configuration	OS: Android 6.0 Processer: 1.5GHz, 4 core Storage: RAM 2G, ROM 16GB (up to 32GB extension Micro-SD) Display: 3.7'', 640 x 480, sunlight readable Camera: 8MP, tag available Sensors: G-sensor, E-compass, barometer, light-field sensor, gyro
Communication	Cellular mode: Dual SIM card, dual stand-by Cellular network: 4G TDD-LTE, FDD-LTE, WCDMA, GPRS Wi-Fi: IEEE 802.11b/g/n, 2.4GHz/5GHz Bluetooth: V2.0/4.0 USB: Type-C, supports OTG NFC
Physical	Weight: 440g(within battery) Size: 208mm*83mm*24mm Temperature: -20℃ ~ +60℃(Operating); -30℃~ +70℃(Storage) Free-fall: 1.2m Water/Dustpoof: IP67
GNSS Features	GNSS: GPS, GLONASS, AGPS, 20 channels Update rate: 1Hz
Power Supply	Battery: Removable 3.7V lithium battery, 5200mAh Duration: 15 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



Various algorithms to achieve high accuracy in corresponding measuring circumstances with a better reliability.

- Quasi-dynamic technology, detail survey, time mode static survey.

Express interacting functions to greatly improve the work efficiency.

- Cross-projects points selection, QR code scanning, multi-format support, etc.

Integrated professional measurement functions for engineering application.

- Road functions, DTM surface operations, Google map, WMS and WMTS, 3rd party rangefinders, etc.

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