

PERFORMANCE SPECIFICATIONS

Satellite Signals Tracked Simultaneously

Channels.....	440
GPS.....	L1, L2C/L2P, L5
BeiDou.....	B1, B2, B3
GLONASS.....	L1C/L1P, L2C/L2P
Galileo.....	Reserved
SBAS.....	Reserved

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

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

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°C~+75°C
 Storage temperature..... -55°C~+85°C

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

V30 PLUS

GNSS RTK SYSTEM



AUTHORIZED DISTRIBUTION PARTNER

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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 info@hi-target.com.cn

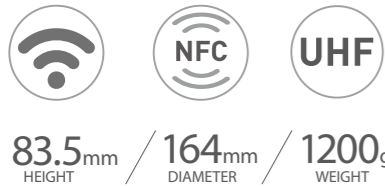
CE IP67



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.



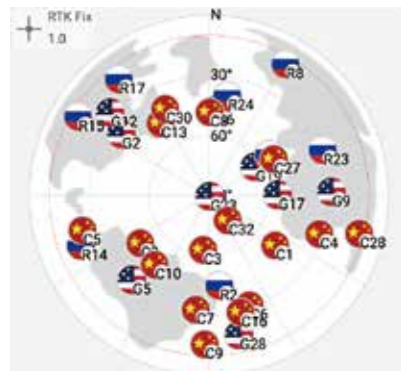
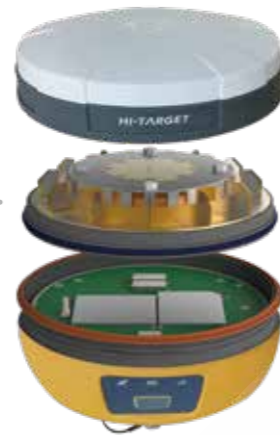
83.5mm HEIGHT / 164mm DIAMETER / 1200g WEIGHT

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.

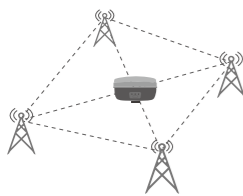


Multi-constellation GNSS engine

- 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 Processor: 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 C ~ +60 C (Operating); -30 C ~ +70 C (Storage) Free-fall: 1.2m Water/Dustproof: 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 WMST, 3rd party range finders, etc.