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%

Tilt Survey
Electronic Bubble

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

V30 PLUS
GNSS RTK SYSTEM
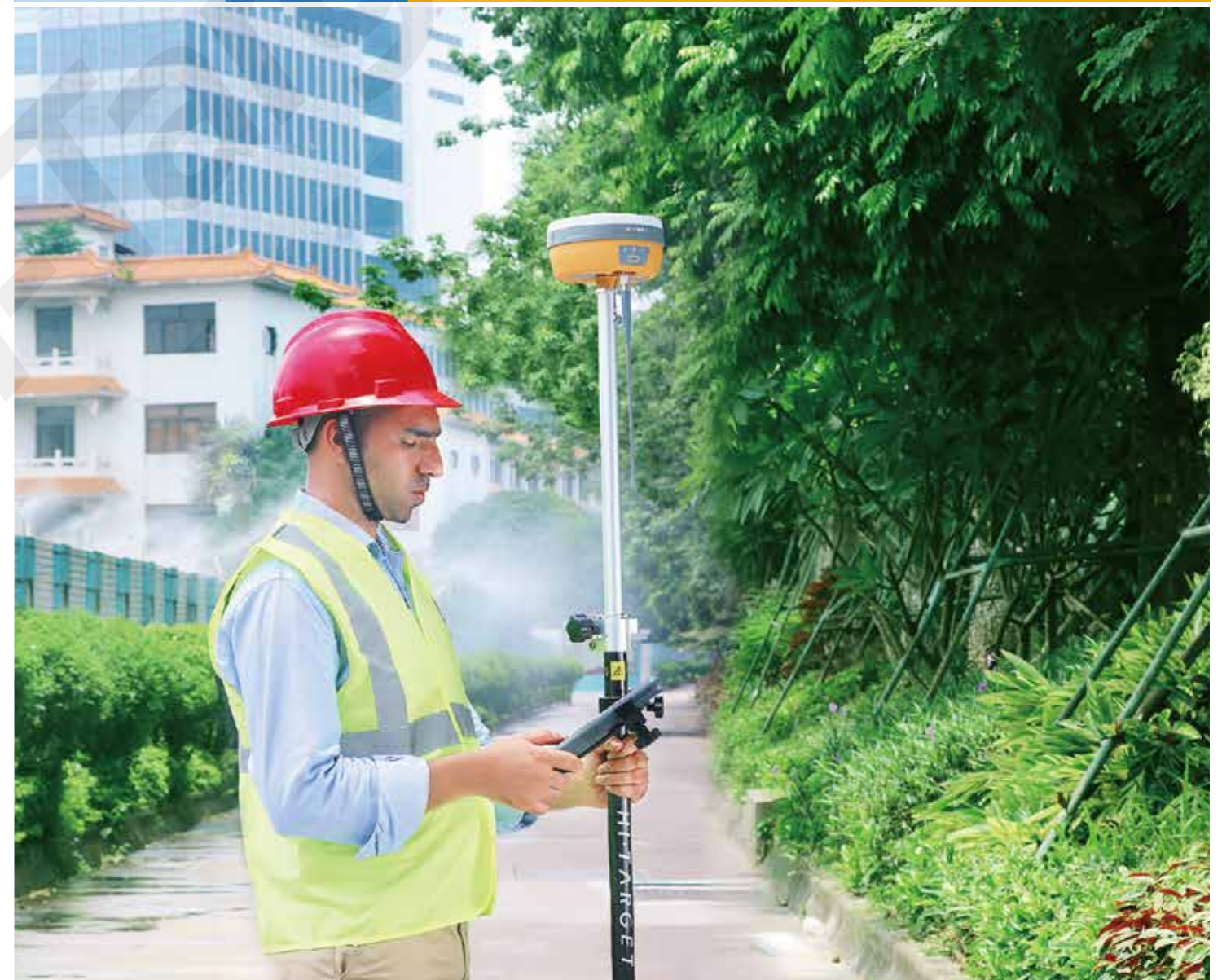
AUTHORIZED DISTRIBUTION PARTNER

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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.
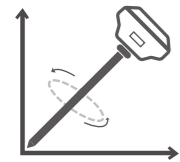
83.5mm HEIGHT / **164**mm DIAMETER / **1200**g WEIGHT
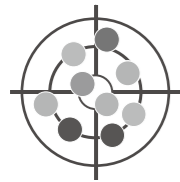
Multi-constellation GNSS engine

- 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.

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.
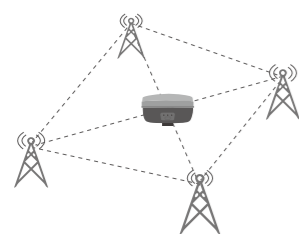
Data communication

- 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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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

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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..