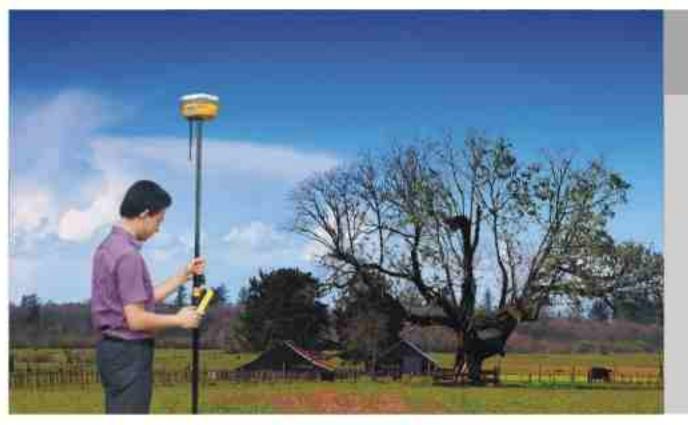
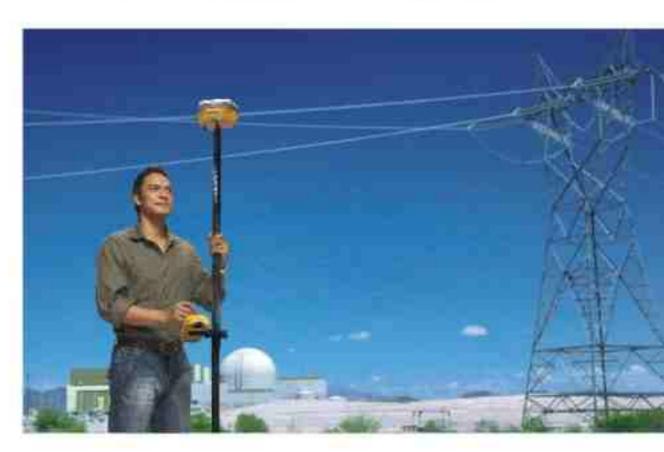
Application



Construction Lay Out

Abundant point and line lay out function, assistant by graph operation instruction, save your expenditure in practical construction.



Electricity and Transportation

Friendly function on power line route direction survey, distance survey and angle calculation; comprehensive survey functionality on road survey, center line, offset survey, profile and cross-section survey



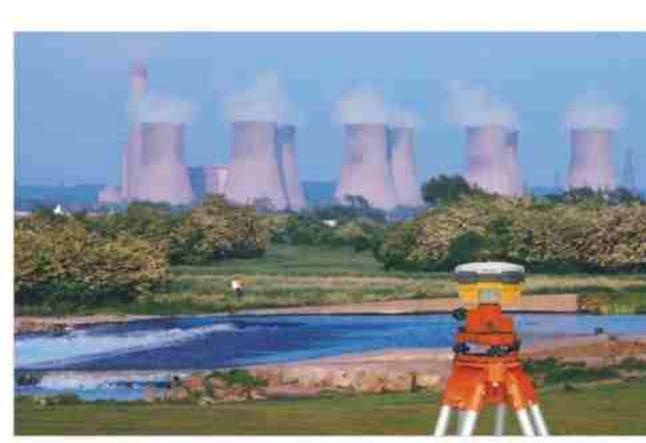
CORS Application

Seamlessly compatible wit CORS system, only one RTK rover can receive CORS difference signal and carry out data collection, construction lay out work



CORS Station Establishment

HD-CORS apply Hi-Target profound experience and mutual technology, stable on operation, long distance on data transmission, is your first choice for City continuous reference stations



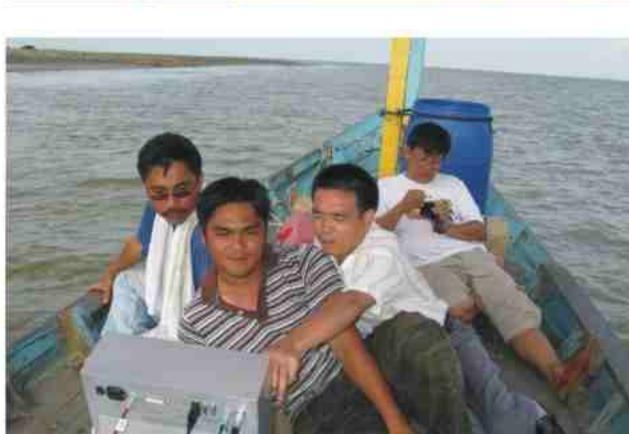
Control Survey

Only one investment you can get list of function, V30 dual frequency static survey accuracy can satisfy any requirements, config with mutual professional data solution software, you can easily accomplish various high precision control survey work.



Data Collection

Controller operation software designed for GIS application, convenient coding function, meets all your requirements in field data collection work



Marine Survey

Config with Hi-Target reputable marine survey software, marine graphical software, and echosounder, can easily apply geodetic survey underwater. Thoroughly change traditional marine survey work mode.



Construction Positioning (Marine)

Work with HI-Target marine construction positioning software, V30 System can assist you to fulfill special requirement of marine construction including: pilling, stone filling, installation and so on.

HI-TARGET SURVEYING INSTRUMENT CO., LTD.

Address: 10th Floor, Chuangxin Building, Tian`an Technology Zone, No. 730 Yingbin Road, Panyu District, Guangzhou City, China

Post Code:511400 Telephone:+86-20-22883931 Fax:+86-20-22883900

Http:www.zhdgps.com

Distributor



Target On No.1 GNSS Brand In China

An Amalgamation, More A Sublimation!

From the first RTK HD-8800 to the first integrated RTK HD-5800 in China, then to the V8 representing the highest advance technology in domestic, Hi-Target insists on pursuing perfect to provide the best user-friendly and stable RTK product.

With common pursuit of high quality products, Hi-Target and the industry's recognized leading company Trimble – Pacific Crest made a strong cooperation. And based on independent multi-innovations on researching and developing for years, Hi-Target now have amalgamated the Trimble first-level technology (for main board) to launch a new generation V30 GNSS RTK.

Not only limited to simple imitation, but also more breakthroughs and innovations; not only an amalgamation of Chinese first-class research, development, and manufacture with world-class technology, but also a sublimation after amalgamation!

Representing the world-class RTK technology, V30 shows that Hi-Target has already been across from leading the domestic RTK field to leading the international RTK development trend!

V30 RTK System

After Hi-Target three-year research and development by R&D team, while amalgamating Trimble first-level technology, a new generation of GNSS RTK system V30 come into being.

The V30 launching is not only the technological innovation, but also an extensive innovation of the manufacturing technology, product quality and users' experiences.



10 Exclusive Innovation

- ♦International advanced Trimble BD970 motherboard, multi-satellite, multi-system kernel
- Built-in Transmit-Receive UHF, Exchangeable Base and Rover
- ◆1+X Multi-Module Communication Units
- ◆Configured with PCC radio, compatible to co–work with RTK receivers of Trimble, Leica, etc.
- Super long distance external radio radio optional
- Fully strongest waterproof, dustproof, broken-resistant
- With the intelligentialized self-diagnosis function.
- double battery capacity, with 4400mAh capacity for a single battery
- Config Multi-function RTK controller iHand1 series
- Voice navigation of RTK handheld software

The combination of the top GNSS industry's technologies, V30 gives you completely innovative user experience.

- 100 items improvement based on V8 mature technology are as follows:
- a) Ergonomic design button panel, three buttons are changed into two buttons, Membrane touch buttons into a contact button, the user operation steps reduced by 50%, failure rate decreased by 50%, waterproof capacity improved by 50%.
- b) Multi-direction antenna high mark line, convenient for the precise instrument height measurement
- c) All FPC wiring reliable circuit module design, reducing the failure rate significantly.
- d) High-performance μ Module power supply design, saving 10% power consumption and more environment-friendly.
- e) Adopting the nanophase materials shell from U.S. General Motors Corporation, shock-resistant and abrasion are significantly improved.

100 more innovations, stands for the Hi-Target pursuit of perfect products!

V30 GNSS RTK SYSTEM

Target On No.1 GNSS Brand In China



International advanced Trimble BD970 motherboard, multi-satellite, multi-system kernel

220 Channels, Support Multi-satellite GNSS System

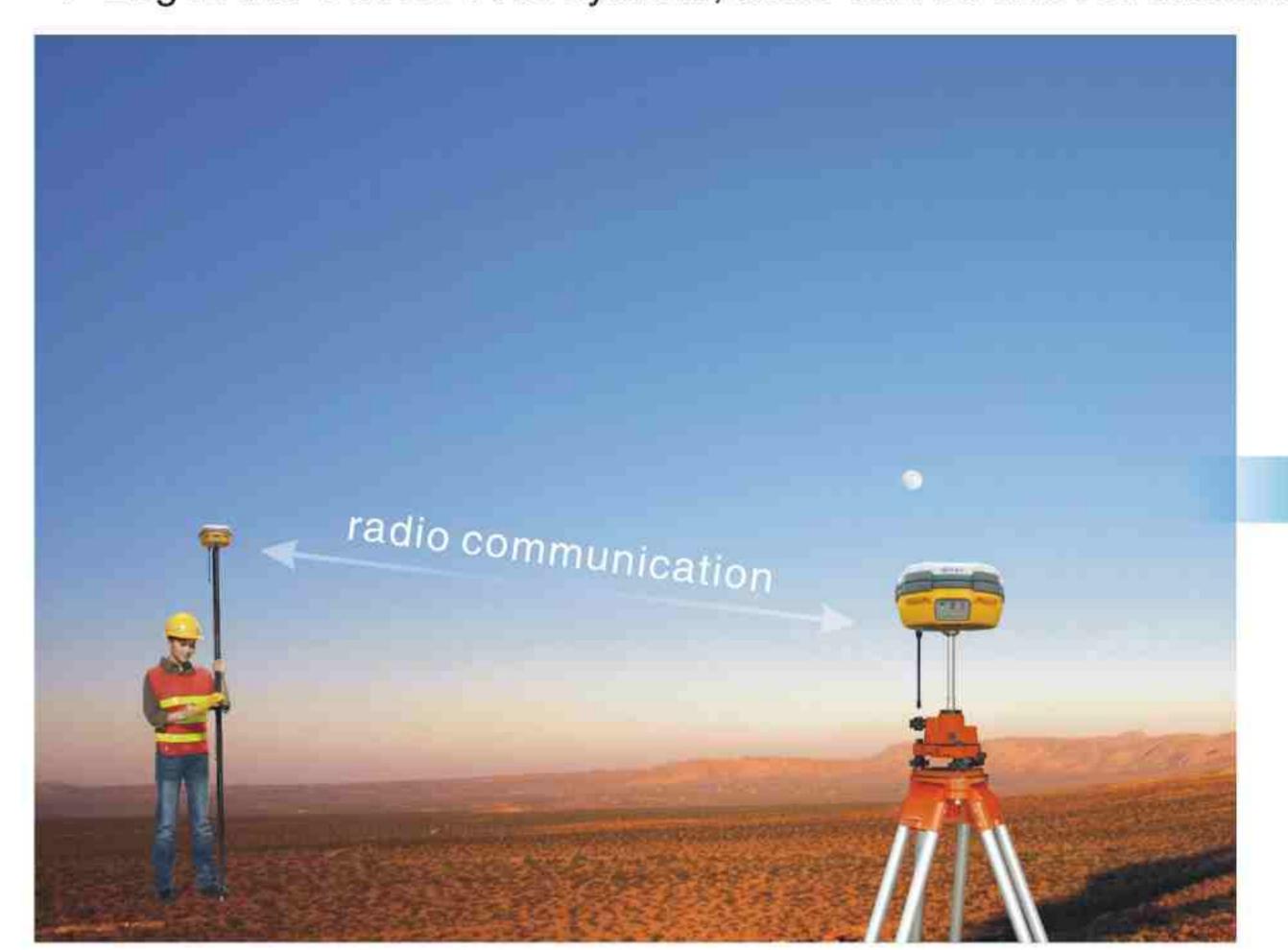
Trimble BD970 GNSS system module not only supports satellite signal like US GPS L2C, L5 and Russia GLONASS L1/L2, but also can track European Union Galileo satellite system GIOVE-A and the GIOVE-B experiment satellite, while is already prepared for the Chinese Compass system.

Mature Trimble Maxwell 6 Technology

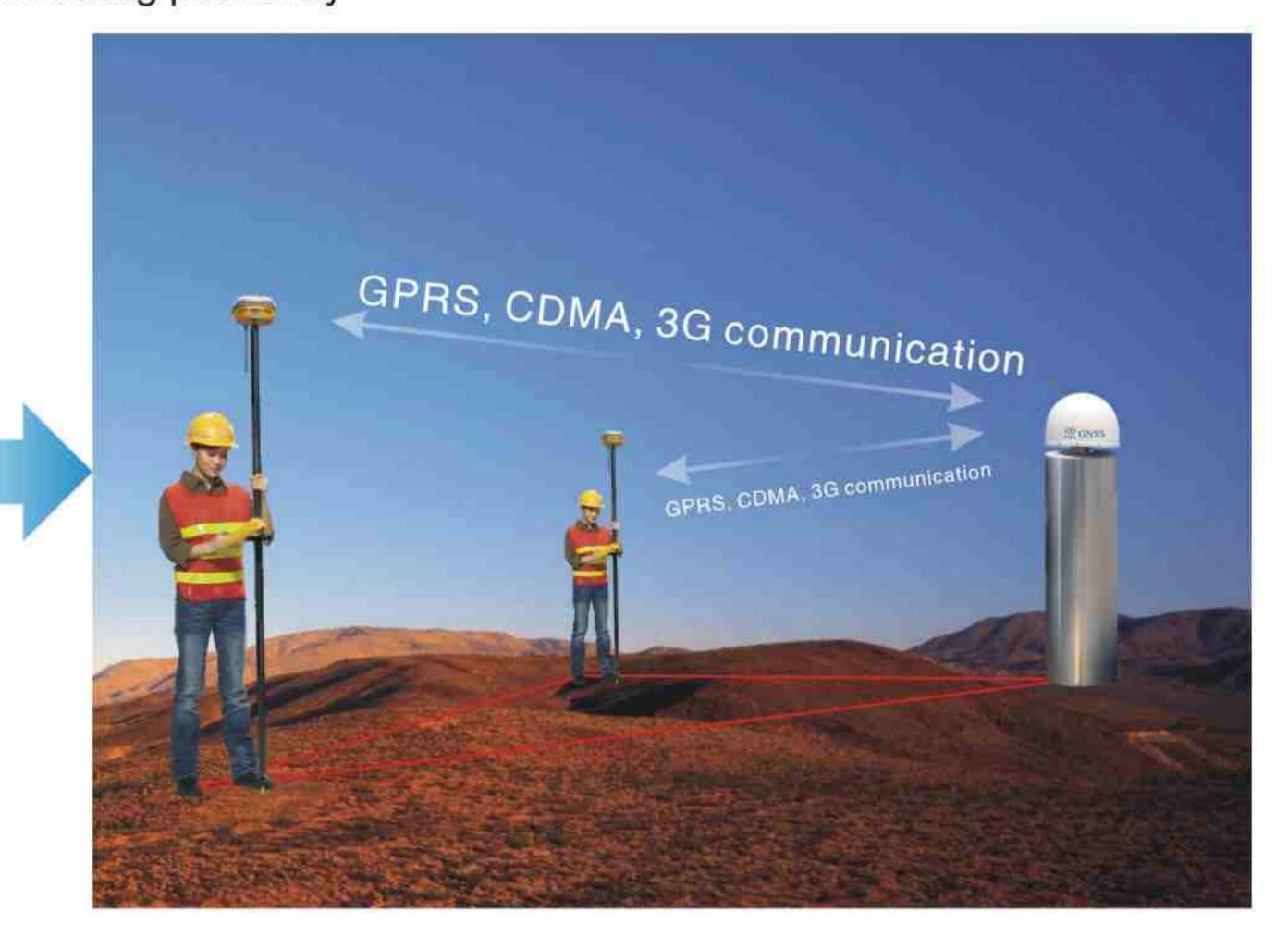
The newest Trimble high–accuracy high–performance location Maxwell 6 technology, brings you the best product experience: Reducing the aircraft–borne multipath effect, with mature low–elevation–tracking technology, improving RTK initialization, intrepid environment adaptiveness, advanced elevation enhancement resolving technology, make excellent performance in elevation survey by RTK......

Built-in Transmit-Receive UHF, Exchangeable Base and Rover

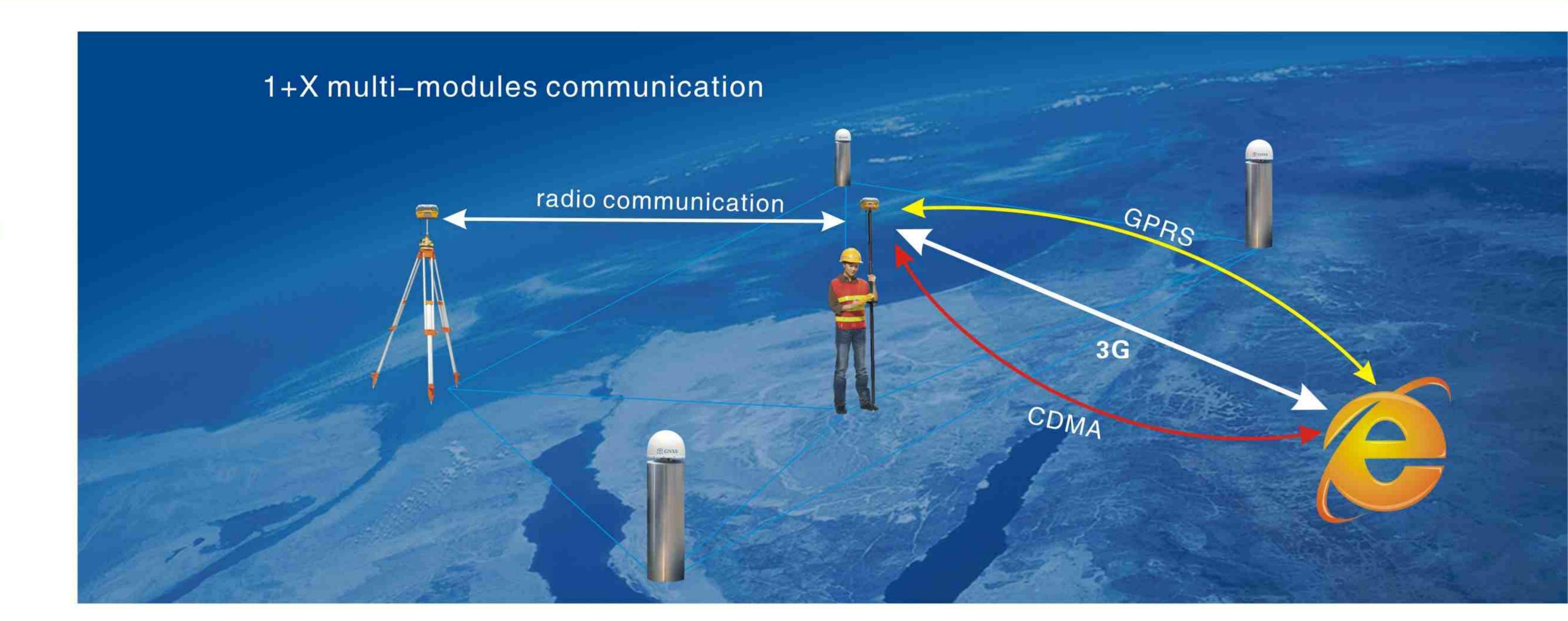
- ◆ V30 built-in power-adjustable low power consumption Transmit-Receive UHF module, enables efficient and convenient fieldwork in short range (10km), without external radio
- ♦When configured with PCC radio, V30 can co-work well with receivers of Trimble, Leica, etc. in radio mode seamlessly.
- ◆ With 2 pcs of built-in batteries (8800mAh in total), V30 enables 16 hours continuous fieldwork in built-in UHF mode, no need any external battery
- ♦ In any survey mode, base and rover is completely exchangeable, greatly improving the products user-efficiency.
- ◆ Log in the CORS/VRS system, base can be a rover instead of being put away



1+1 working style by built-in radio communication



while accessed to CORS/VRS, 1+1 becomes 2 rovers flexibly



1+X Multi-Module Communication Units

1+X Multi-Module optional communication modules: besides one standard built-in 4-band GPRS communication module, 3G communication module, transmit-receive radio module, PCC radio are all optional for your various local applications, which also makes maintenance and repair to be very convenient and optional as well.



Transmit-Receive Radio Module Compatible with V9 (standard configuration)

The radio made of highest quality radio in China can achieve long-range data transmission of over 8 KM as the best, while be compatible with V9 RTK base and rover receivers that customers are already using.

Furthermore, Radio frequency band is 440MHz ~ 450MHz or 455MHz ~ 465MHz, with 100 flexible switching channels; the power for this radio module is adjustable to be 0.1W, 1W, 2W, according to different applications.

4-band GPRS Module (standard configuration)

GPRS wireless high-speed data transmission technology with wide coverage and strong anti-interference while without distance limitation, provide you with splendid data transmission protection even in complicated urban environments.

PCC Radio Module (optional) Compatible with Trimble/Leica RTK

Built-in PCC transmit-receive radio module, be compatible with other international RTK receivers like Timble, Leica, etc. With adjustable power as 0.1W, 0.5W, 1W while frequency band 430MHz ~ 470MHz, it has 32 flexible switching channels while the baud rate of each channel can be customized.

3G Wireless Module (optional)

3G communication module adapts a higher frequency and more advanced wireless access technology, with high—speed data downloading capability while data transmission is more stable, stronger anti–interference ability, meeting the high–capacity wireless data transmission well including photos, videos. Support WCDMA network, use internationally.

Target On No.1 GNSS Brand In China V30 GNSS RTK SYSTEM

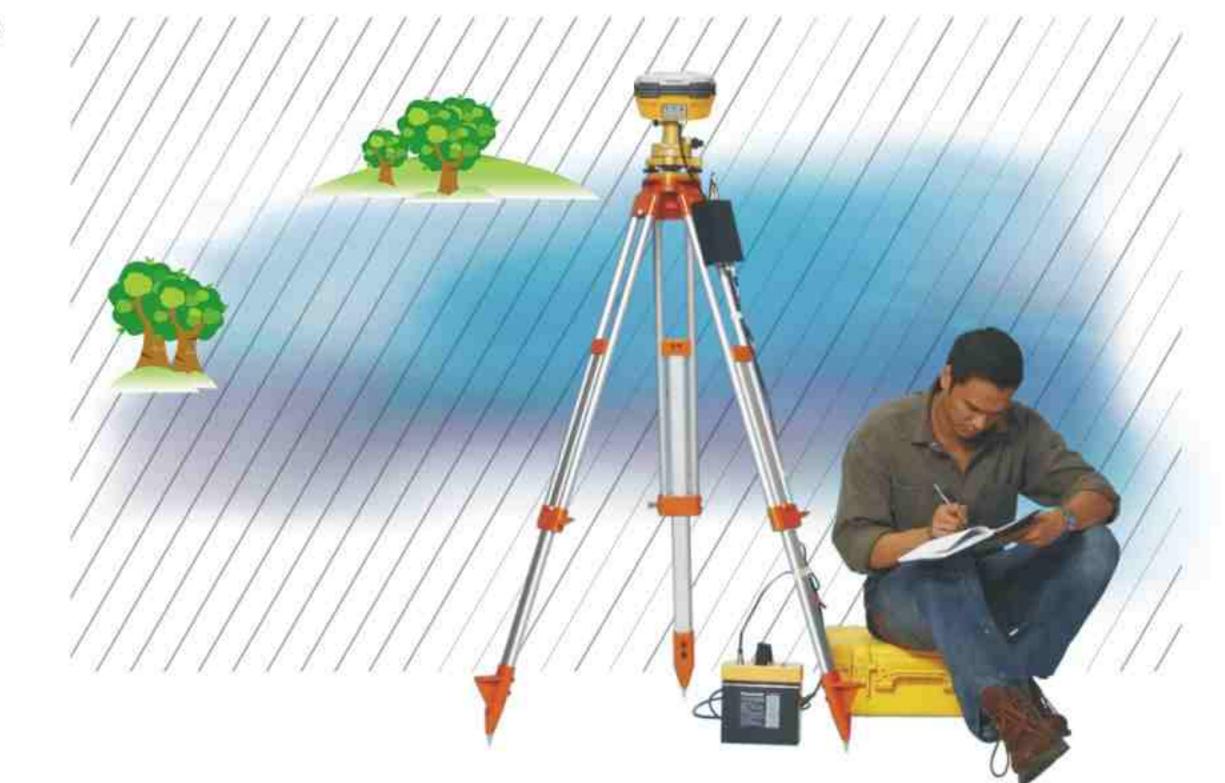
Super long distance external radio (optional)

High-performance External Radio, Compatible with V9 (standard configuration)

The external radio, made in China, is compatible with V9, fully optimized from the transmitting radio antenna to the receiving module antenna based on the mature and stable technology. It significantly improves the fieldwork performance while is compatible with the last generation V9 GNSS RTK system.

Performance Advantages

Flexible: external style, enable free installing and replacing Multi-channel: with 100 UHF channels, support custom proprietary channels. Optional power: adjustable in high and low power switch, more power saving Three anticharacteristics: dustproof, waterproof, shockproof. Long Distance: in the same power condition, it works with high stability in longer distance of data transmission comparing to other radios home and abroad



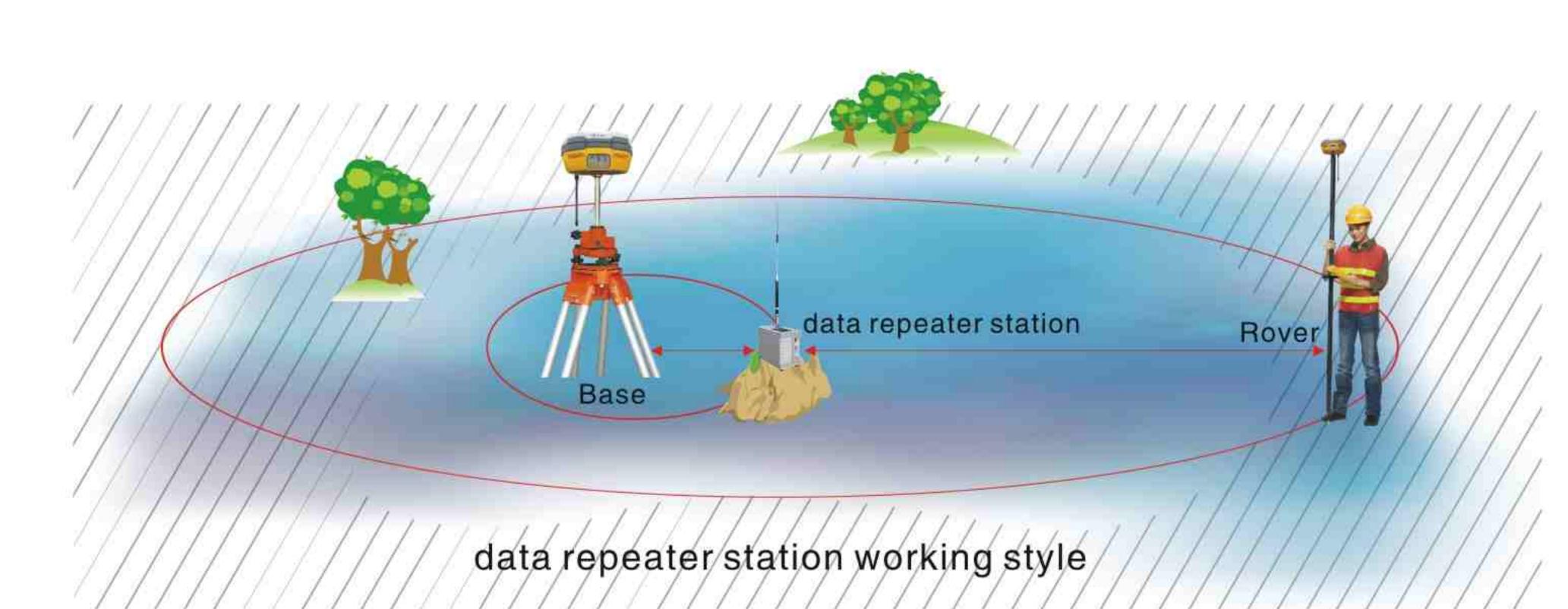


External PCC Radio, Compatible with Receivers of Trimble/Leica (optional)

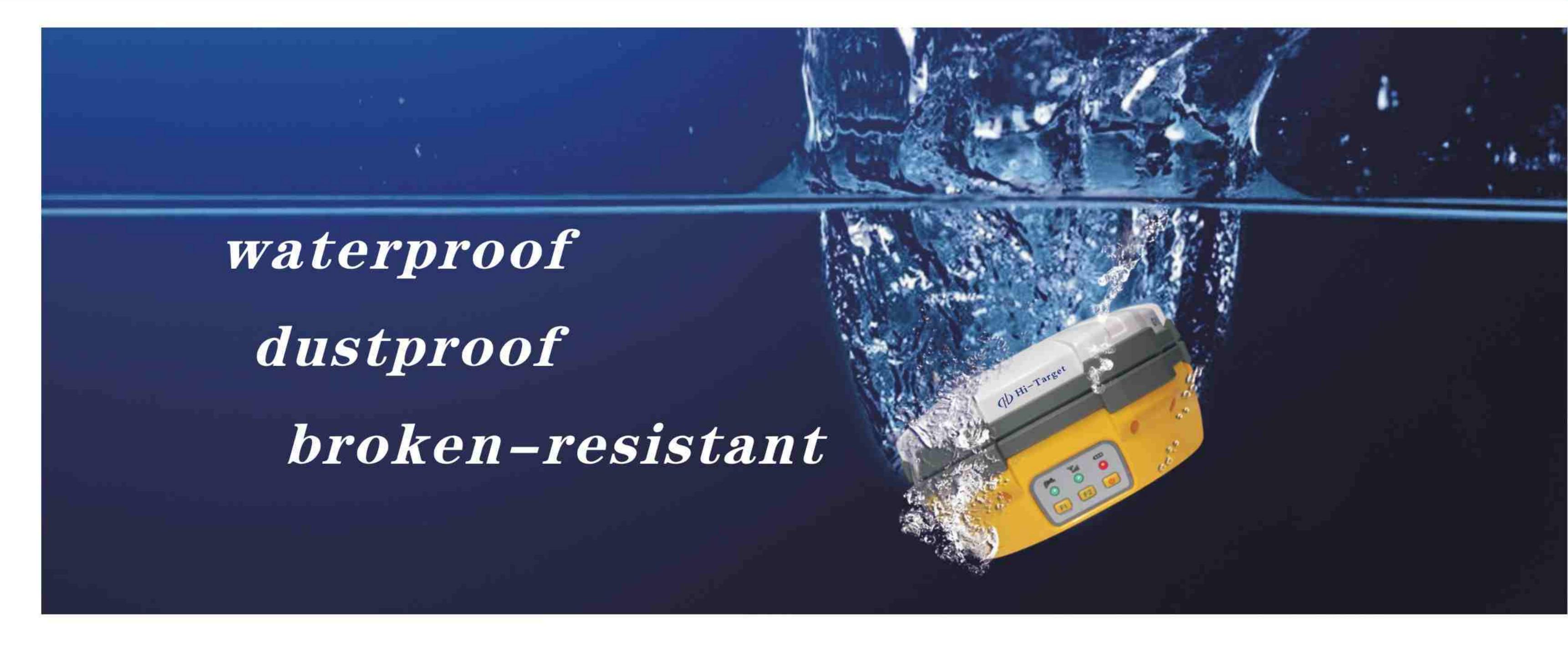
V30 can be configured with PCC external radio, so as to co-work well with Trimble/Leica receivers in radio mode.

- o input power: DC 9~30 V
- © transmit-receive radio, adjustable power as 100mW, 500mW, 1W, 2W, 4W; or another type which can be 35W as the largest power.
- frequency band 430MHz ~ 470MHz, with 32 flexible switching channels while the baud rate of each channel can be customized
- With top 19.2Kbps wireless transmission speed.

- support the below protocol, convenient for uses to work compatibly with their own products
- o Transparent EOT Timeout
- o Transparent EOC Character
- o Packet Switched
- o TRIMTALK 450S
- o TRIMMARK II/IIe
- o TRIMTALK 3
- o TT450S
- o SATEL









The highest performance in waterproof, dustproof and anti-drop in the field

With super IP67 three proof industry design, makes it work properly after soaking in two meters water and nature fall from 3 meters

- adopting flexible Nano material from U.S. General for shell production
- strengthening the internal frame design
- double capsule waterproof design
- with extra width and thickness water-proof and anti-drop design



Intelligent error self-diagnosis function

With a unique broadcasting system you can have a pretty idea of whether all the parts firmware or software can work properly through the shortcut key operation, no matter it's for routing check before start or in the working process.



Dual battery capacity, single block capacity 4400mAh

With default configuration in two 4400mAh batteries, total volume as high as 8800mAh.

Single-block battery capacity increased 120% compare with traditional batteries

- 12 hours for RTK rover operating;
- 15 hours for Static operating;
- 8 hours for 2W built-in radio emission.

Pioneer dual GPRS communications function (optional)

Built-in GPRS receiver can be seamlessly compatible with local CORS, with new iHand10G in network loading as well as loading on CORS coordinate conversion server function, thus it can collect the data together with completing coordinate conversion at one time, realizing not only for parallel processing of CORS data service and coordinate transformation services encryption but also for real-time monitoring, organization scheduling, uploading data results and download tasks * Dual GPRS design makes traditional dual Bluetooth design become a encumbrance.

Target On No.1 GNSS Brand In China V30 GNSS RTK SYSTEM



Multi-function RTK new controller in iHand10 series - lightweight fully waterproof and anti-drop design

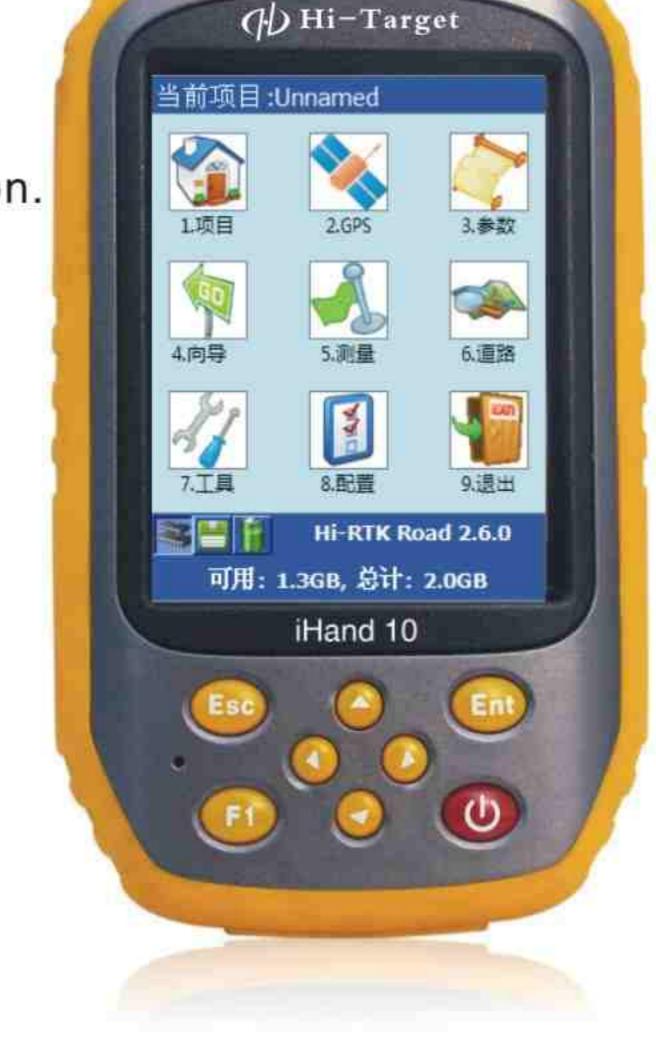
High-performance New Controller iHand10 (default configuration)

iHand10 merged international design, according to human engineering characteristics, combined with field measurement work habit, re-interpretation of the RTK controller definition. iHand10 with top of three anti-design standard, the reinforce structure can withstand 1.5m drop to hard earth, IP67 waterproof and dustproof performance, make it more suitable for complex environments.

iHand10 ultra-lightweight tray design, operate friendly with a strength approval. Meanwhile, a configured high-capacity lithium battery can meet your operational requirements during a whole working day.



iHand 10G fully introduces GIS data collection technology based on iHand 10, achieving the perfect combination of RTK technology and GIS data collection technology, so that the application of RTK is no longer confined in traditional surveying field!



High-end system configuration

- Windows CE5.0 or Windows Mobile 6.1 operating system
- 533MHz ARM920T high-speed processor
- 512M large-capacity memory
- 3.5 inch NEC professional outdoor color touch screen

2 million pixel high-definition camera function

- Realize real-time RTK camera measurement of Virtual field, points can be recorded, a visual record of the environment measurement
- GPS coordinates and imaging can be automatically match the label attribute information

Bluetooth wireless communication

by bluetooth wireless to cooperate with range finder, to achieve deflection distance surveying

High sensitive microphone recording

 achieve automatically match mark between GPS coordinates and real-time voice attribute information

Waterproof, dustproof, anti-drop capability

- 1.5m drop to hard earth
- IP67 waterproof, dustproof

Professional GPS function (optional)

- Built-in high sensitive GPS antenna interference
- Accuracy: single point positioning: 5 m SBAS: 1 ~ 2m

GPRS communication (optional)

- wireless data transmission
- access to CORS, can complete coordinate transformation while collecting data.

The first voice navigation RTK controller software

Hi-RTK is the latest development new multi-function controller software, the first voice navigation function in the operating makes it more convenient in field measurement operations.

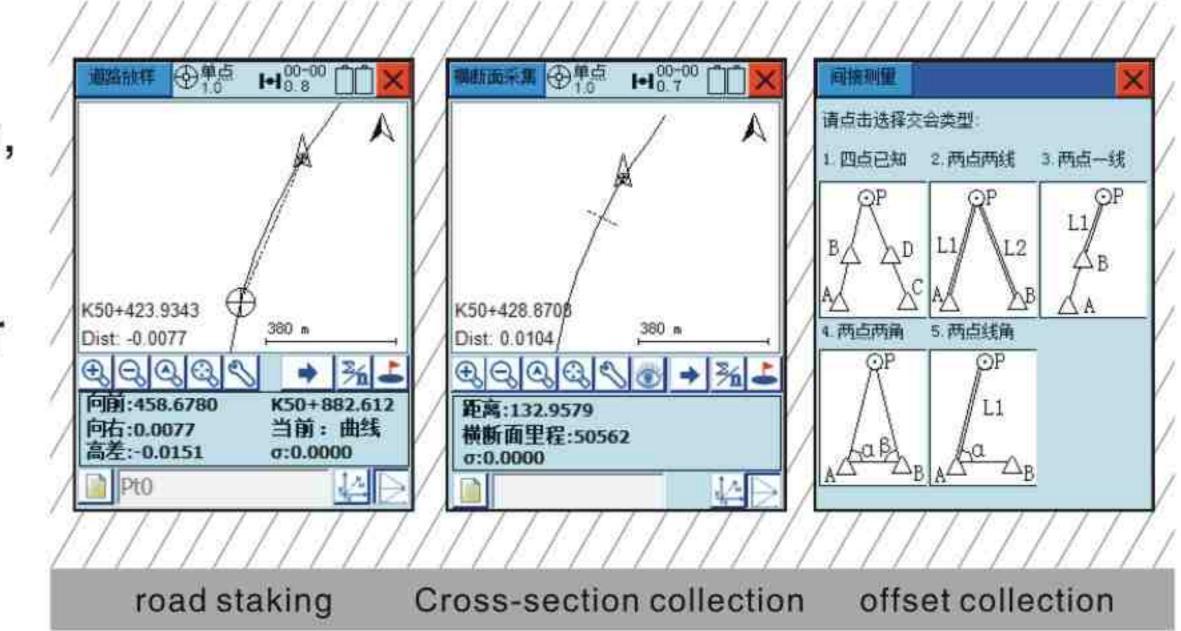
Software adopts intuitive graphical operation and user-friendly dialogue model, by which what can be seen is what can get, achieving a very human-machine communication.

According to characteristics of different industries, the software is designed with pertinent applications, rich configuration parameters, projection transform and supports multiple languages, all of which makes it to be a very personalized, professional and globalize controller software.

- Multi-platform support: software can run in Windows Mobile, Windows CE controller system, and the Windows XP operating system to facilitate teaching, presentation and communication
- oconvenient, intuitive and beautiful graphical interface, enabling users to be familiar with the functions within 5 minutes.
- more secure data analysis module to ensure correct and good results
- ⊚ rich consummation accessory tools, azimuth, angle, perimeter, area….making it easy to calculate
- © global parameters, projection conversion, supporting for west longitude, latitude and global coordinates definition to realize having the world details only with an instrument in the hand.
- o multiple color scheme choices, personalized software interface

Hi-RTK

Hi-RTK Road is special for road engineering surveying industry, design with line explore, line stakeout function, at the same time, using the latest element model of the unified carve algorithm to solve the traditional controller software error defects thus improved the line accuracy.



Hi-RTK Road supports line level section, longitudinal,

cross-sectional, three-dimensional stake out, visual cross-sectional collection; flat section to support common legal line and line element (Building Block) alignment, free to define arbitrary form lines.

It is developed with almost the international popular coordinate systems, each of which contains the unit as ellipsoid, projection, convert, etc. Wherever you are, you can find yur local coordinate system in Hi–RTK sofwtare for your application, or you can conveniently customize yours for your special local requirement.