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vRTK

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the New IMU GNSS RTK with Visual Positioning Technology

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vRTK

Pocket-sized RTK comes with brand new image positioning technology.

Equipped with dual cameras, vRTK is Hi-Target's first lightweight and innovative visual RTK receiver product, which not only enables non-contact image surveying, breaking through the objective constraints of previous work, but also improves the speed of stakeout with the function for Live View Stakeout. It greatly improves the work efficiency for engineering users.

KEY FEATURES



Upgraded IMU

Tilt Survey with

Auto Installation



AR Measurement

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Live View Stakeout







Full-Constellation Tracking





Image Positioning Technology

The new image survey function achieves non-contact measurement, which greatly enhances the available range of GNSS, realizing more efficient and safe operation. Based on Android's high-performance image processing technology, vRTK with 5MP camera for the rear view, can be used to obtain precise coordinates in real time, in the range of 2-15 meters, with an accuracy of 2-4 cm.

Brand-new Stakeout Experience

The 2MP camera beneath enables AR live-view stakeout with an accuracy of 2cm, saving time and effort in reaching the stakeout point.







Strong Signal and High-Quality Data

A new generation of GNSS engine supports the new frequency points B1C, B2a, and B2b RTK decoding of the Beidou-3 satellite. With the introduction of multi-frequency anti-jamming technology and multi-step adaptive filtering technology, it features strong signal, high-quality data, fast fixing, and high accuracy.

Abundant Industry Data Results

The different types of data results obtained from vRTK are compatible with third-party data processing software, meeting the needs of different industry applications. Moreover, vRTK is newly compatible with mainstream modeling software, making 3D modeling as simple as possible.

Groundbreaking GNSS System

Innovative integration of vision and surveying

The perfect partner for vRTK

Combined with the Hi-Survey Road software and the iHand55 large-screen handheld controller, vRTK achieves even better performance on measurement and field survey. The guaranteed compatibility allows users to apply the survey data from the vRTK to 3D modeling softwares or the Hi-Target Business Center for quick and easy data post processing.





SPECIFICATIONS

Channel

1408/800+(optional)

Image Stakeout Accuracy

2cm

Size

Ф130mm×79mm

Satellite Tracking

BDS/ GPS/ GLONASS/ GALILEO/ QZSS/ IRNSS/ SBAS

Hi-Fix

H: RTK+10mm / minute RMS V: RTK+20mm / minute RMS

*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.

Tilt Survey Accuracy

8mm+0.7mm/°tilt

Image Survey Accuracy 2cm ~ 4cm

Weight ≤0.97kg

Data Storage Built-in 8GB ROM



The iHand55 Handheld Controller is a professional field controller with a big vision. More features of the latest Hi-Survey Road Software contribute to achieving high intelligence. Keeping robust and reliable in fieldwork under any conditions, iHand55 is a perfect choice for your survey work.

Hardware Configuration	OS: Android 10 Processer: CPU: 8 core; 2.0 GHZ Storage: 2 GB RAM+16 GB ROM; T-Flash memory card, up to 128GB Display: 720*1280, 5.5", bright Outdoor Colorcapacitive touch screen (with touch pen, can be operated with gloves) Input Configuration:Physical full keyboard,number / letter separate, professional custom smart input method	
Communication	Cellular mobile: 4G, Dual SIM WiFi: IEEE 802.11 b/g/n, Wapi, AP Bluetooth: Built-in Bluetooth (2.1+4.0) NFC USB: USB, TypeC interface, OTG	
Physical	Weight: 480g(with battery) Size: 236 mm*85 mm*25 mm Operating temperature: -20 C ~ +60 C Storage temperature: -30 C ~ +70 C Free fail: 1.8 m Shock and vibration: MIL-STD-810H	
GNSS Features	GNSS: GNSS antenna, GPS, GLONASS, BDS, AGPS, 20 channels	
Power Supply	Battery: 7500 mAh internal Duration: 14 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



High accuracy and good reliability with various algorithms even in tough environments. Supporting tilt survey, guasi-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.









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