EQUIPOS

PERFORMANCE SPECIFICATIONS

MEASUREMENTS
- 72 Channels
- Proven Novatel GNSS technology
- Multipath mitigating technology
- Auxiliary strobe signals, including a configurable output for time synchronization and mark inputs

Satellite signals tracked simultaneously
GPS L1, L2, L2C
GLONASS L1, L2

POSITIONING PERFORMANCE[1]

Static and Fast Static GNSS surveying
Horizontal ..... 2.5mm+0.5ppm RMS
Vertical ..... 5mm+0.5ppm RMS

Post Processing Kinematic (PPK / Stop & Go) GNSS surveying
Horizontal ..... 5cm+1ppm RMS
Vertical ..... 2.5cm+1ppm RMS
Initialization time ..... typically 10 minutes, for best while 5 minutes for rover
Initialization reliability ..... typically > 99.9%

Real-time Kinematic (RTK) surveying
Horizontal ..... 10mm+1ppm RMS
Vertical ..... 20mm+1ppm RMS
Initialization time ..... typically < 10 seconds
Initialization reliability ..... typically > 99.9%

Code Differential GNSS positioning
Horizontal ..... 25cm+1ppm RMS
Vertical ..... 50cm+1ppm RMS
SBAS ..... 0.50m Horizontal

HARDWARE

Physical
Dimensions (W x H) ..... 16.5cm x 10.5cm (6.50 in x 4.13 in)
Weight ..... 1.75kg (3.86lb) with internal battery, external radio, standard UHF antenna
Operating temperature ..... -45°C to +65°C (-49°F to +149°F)
Storage temperature ..... -55°C to +85°C (-67°F to +185°F)
Humidity ..... 100%, condensing
Water/dust proof ..... IP67 dust proof, protected from temporary immersion to depth of 1m (3.28ft)
Shock and Vibration ..... Designed to survive a 2m (6.56ft) natural fall onto concrete
Display ..... 128×64 resolution, 1.54 inch OLED screen

Electrical
Power 9V to 28V DC external power input
Power consumption 2.5W
Automatic switching between internal power and external power
Rechargeable, removable 7.4V, 5000mAh Lithium-Ion battery in internal battery compartment

Internal battery life
Static 13 - 15 hours
RTK Rover (UHF/GPRS) 10 - 12 hours
RTK Base 9 - 10 hours

I/O interface
1 x Bluetooth
1 x standard USB2.0 port
2 x RS232 serial port
2 x DC power input (8-pin & 5-pin)

COMMUNICATION AND DATA STORAGE

GPRS/GSM
Fully integrated, fully sealed internal GPRS/GSM
Network RTK (via CORS) range 30-50km

HI-TARGET internal UHF radio (standard)
Frequency ..... 460 MHz with 116 channels
Transmitting Power ..... 0.1W, 1W, 2W adjustable
Transmitting Speed ..... Up to 19.2Kbps
Working range ..... 3~5Km typical, 8~10km optimal

HI-TARGET External UHF radio (standard)
Frequency ..... 460 MHz with 116 channels
Transmitting Power ..... 5W, 10W, 20W, 30W adjustable
Transmitting Speed ..... Up to 19.2Kbps
Working Range ..... 8~10km typical, 15~20km optimal

Support other external communication device
For example, external GSM modem.

Data storage
64MB internal memory

Data formats
GPS positioning output, up to 50 Hz - (depends on installed option)
CMR: CMR+, CMR input and output
RTCM: RTCM 2.1, 2.3, 3.0, 3.1 input and output
RTCA: RTCA
Other Outputs: NMEA-0183, Novatel ASCII and Binary logs

Features and options are subject to alteration due to constant, unpredictable satellite geometry and atmospheric conditions. The user should always exercise due care in data handling in all operating environments and periodically check the results against known positioning points with the use of known results so that any anomaly attributed to positioning or the signal can be noted for the applicable application including subsequent times appropriate for batching length. Baselines longer than 30 km require precise ephemeris and observations up to 24 hours may be required to achieve the high precision specifications.

Descriptions and specifications are subject to change without notice.

HI-TARGET

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FC CE IP67

HI-TARGET

H32

Dual-Frequency GNSS RTK System



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H32 GNSS RTK SYSTEM

Originated from HI-TARGET's sophisticated GNSS technology, the H32 is a very competitive GNSS RTK system on the current market with its rugged design and affordable price.

The H32's housing is made of General Electric Xenoy 5220U polymer resin to handle severe and harsh filed conditions. With its unique internal design, it can perfectly avoid or lessen obstruction and multipath effect to ensure superior positioning capability.

The H32's front control panel with super bright OLED display screen (Resolution 128x64) makes the work more intuitive. No matter it is in the dark or strong sunshine, the screen is comfortably readable to eyes.

KEY FEATURES

Multi Constellation Tracking
72 channels. The H32 is fully compatible with GNSS constellations to track GLONASS, GALILEO, SBAS as well as GPS.

All-in-one Transceiver UHF Radio
The transceiver UHF radio enables the H32's working mode to be switchable between base and rover in the same receiver. The H32 provides excellent performance in UHF RTK operation with its built-in transceiver UHF radio, which has adjustable transmitting power from 0.1 Watt to 2 Watts.

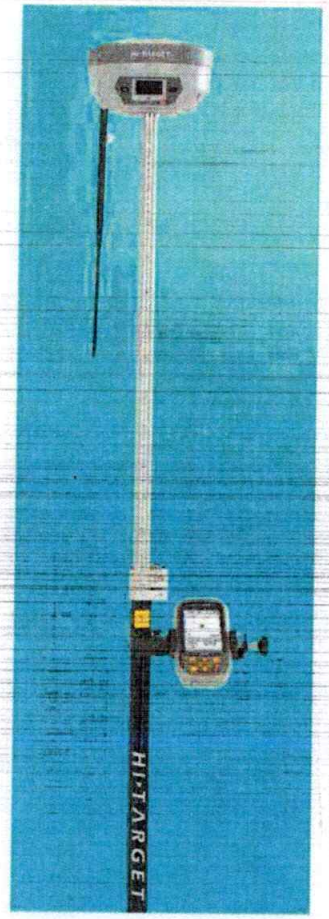
Seamlessly Operation in CORS System
With internal GPRS modem, the H32 works perfectly with corrections from CORS networks in any version of CMR, RTCM without needing to interpret the message but reading seamlessly.

Powerful Battery
Powered by 5000mAh Li-Ion battery.
Static working time 13 - 15 hours
RTK Rover (UHF/GPRS) working time 10 - 12 hours
RTK Base working time 8 - 10 hours

Rugged design,IP67
The special latching technology on flexible flat cables ensures trouble-free operation under impact or vibration. The H32 withstands 2 meters natural fall onto concrete.

Field Controller and Software
There are optional field controllers and software in the H32 package. The controllers with OS Microsoft Windows Mobile 6.5 are fully compatible with the third party software such as Carlson SurvCE, MicroSurvey FieldGenius, Digiterra Explorer, Esri ArcPad etc. besides standard field&GIS software made by HI-TARGET. HI-TARGET controller with WIFI, Bluetooth, and GPRS/3G is completely wireless to connect to any device, collect data and connect to server simultaneously and seamlessly.

Post-processing Software
HI-TARGET Geomatics Office (HGO) software provides total GNSS solution with a complete suite of programs to support HI-TARGET GNSS receivers. Standard Rinex data and HI-TARGET raw data can be processed flexibly and easily.



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Conclusiones

Realizado el levantamiento topográfico del terreno donde está ubicada de las graderías y zonas complementarias del estadio del municipio de la uvita, Boyacá arroja una superficie de área un área total del lote de 1.115 metros cuadrados
A partir de conocer este valor obtenido para la superficie, y al observar que no existe discrepancia significativa con la declarada en el catastro actual, y realizado es correcto, que en todo instante se ha seguido un proceso analítico de cálculo, obteniéndose resultados matemáticos, y que la exposición y redacción del Informe es clara y correcta, se presenta este Informe Topográfica ante el peticionario, a los fines que estime en consideración.

Recomendaciones

Una vez realizado el levantamiento topográfico del terreno se recomienda a la entidad realizar una buena estabilización del terreno con el fin de evitar deslizamientos en la zona de construcción de las graderías, ya que la diferencia de endientes es alta.

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