

Trimble NetR5 reference station

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Key features

Proven GNSS technology from Trimble

Automatic and secure file upload

External memory options for greater data storage

Designed to optimally support the Trimble GNSS infrastructure solution

Rugged, lightweight, and power efficient

The Trimble® NetR5™ Reference Station is a multi-channel, multi-frequency GNSS (Global Navigation Satellite System) receiver designed for use as a stand-alone reference station or as part of a GNSS infrastructure solution .

Trimble r-track technology for comprehensive GNSS support

Trimble® R-Track™ technology in the NetR5 receiver supports the modernized GPS L2C and L5 signals as well as GLONASS L1/L2 signals . This extensive GNSS support is capable of providing users with real field benefits .

With the world's GNSS in constant development, surveying businesses small and large can be confident in the results achieved using a Trimble solution . Trimble, already proven in GPS technology, will continue to lead the industry in GNSS support . And this will protect your investment in the Trimble NetR5 for many years to come .

Hardware and software designed with the user in mind

The Trimble NetR5 is ideal for many different purposes . In the field it's rugged and lightweight, and consumes very little power due to its purpose-built ASIC (Application Specific Integrated Circuit) platform . The NetR5 can operate up to 15 hours in tough conditions on a single charge . It is also easy for any user to configure via its simple front panel; a software interface is not required . The front panel also enables you to quickly check the receiver's status .

Collect, store, and transfer large amounts of data easily and conveniently via the NetR5 receiver's limitless expandable memory . The receiver supports USB devices such as memory sticks as well as external hard drives . The Trimble NetR5 also offers "FTP Push", which is a function that automatically and securely uploads data files, and which removes the need for manually copying receiver files for

significant time savings . The receiver can also function as an FTP server for those wanting to retrieve files manually . The receiver has an internal battery (~15 hours) which will act as backup in case of any external power failures .

The Trimble NetR5 works seamlessly with Trimble's infrastructure software Trimble® GPSBase™ and Trimble® GPSNet™ . Additionally, the software has security options to restrict access to only those who are permitted . The software is available in eight languages, allowing most users to control the receiver in their language of choice .

An important component of a Trimble GNSS infrastructure solution

Trimble® GNSS Infrastructure is the most established and widely used GNSS infrastructure solution available . Additionally, all components of Trimble GNSS infrastructure—including the Trimble NetR5 reference station—are designed to work together . This means the solution is scalable; that is, it will grow with you as your business needs change . And the solution is part of Trimble's Connected Survey Site model, where products, techniques, services, and relationships combine to take your business to unprecedented levels of achievement .

With numerous fully modeled Trimble® VRS™ networks all over the world and dedicated Trimble GNSS infrastructure engineers on hand to support your unique needs, Trimble GNSS infrastructure solutions are always a wise investment . Surveying professionals can rely on Trimble's experience and expertise in this field, and be confident that choosing a Trimble GNSS infrastructure solution is the right decision .



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performance specifications

- Trimble R-Track technology
- Advanced Trimble™ C/A code Survey GNSS Chip
- High precision multiple correlator for GNSS pseudorange measurements
- Unfiltered, unsmoothed pseudorange measurements
- low multipath error, low time domain correlation and high dynamic response
- Very low noise GNSS carrier phase measurements with 1 Hz bandwidth
- Signal-to-Noise ratios reported in dB-Hz
- Proven Trimble low elevation tracking technology
- 76 Channels:
 - GPS L1 C/A Code, L2C, L1/L2/L5 Full Cycle Carrier
 - GLONASS L1 C/A Code, L1 P Code, L2 P Code, L1/L2 Full Cycle Carrier
 - SBAS WAAS/EGNOS support

Data storage

Internal memory59 MB (1620 hours) of recording data at 15 sec epoch intervals

External memorySupport for USB memory stick and USB hard drives allowing several hundred GB to be stored for applications requiring more memory

code differential Gps positioning

Horizontal±0.25 m +

Vertical±0.50 m +

WAAS differential positioning accuracytypically <5 m

static and faststatic Gps surveying

Horizontal±5 mm +

Vertical±5 mm +

Kinematic surveying

(Available only when used as a rover integrity receiver in the GPSNet software)

Horizontal±10 mm +

Vertical±20 mm +

Initialization timetypically <10 seconds

Initialization reliabilitytypically >99.9%

electrical

- 10.5 V to 28 V DC input protection
- 9.5 V to 28 V DC input protection
- Integrated internal battery 7.4 V, 7800 mA-hr, Li-Ion
- Internal battery operates as a UPS in the event of power source outage
- Internal battery will charge from external power source when input voltage is >15 V
- Integrated charging circuitry

power consumption

Power4.8 W average

Size2.4 cm x 12 cm (9.4 in x 4.7 in) including connectors

Weight1.55 kg (3.42 lb) receiver with internal battery

regulatory compliance

FCC Part 15 (Class B Device), CE mark

RSS-210, RSS-Gen, RSS-310

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environment

- Operating temperature-40 °C to +65 °C
- Storage temperature-40 °C to +80 °C
- Humiditymeasurements MIL-STD 810F, Method 511.8
- Vibrationfor low frequency: 10 Hz to 1000 Hz
- ShockSurvival: 75g
- Waterproof to IP67 for submission to sand, dust and moisture

communication

- NTRIP server, client and caster functionality
- 1 LAN port:
 - All functions are performed through a single IP address simultaneously—including web GUI access, FTP file transfer, and raw data streaming
 - One serial port with RJ45 connector supports links
 - All functions are performed through a single IP address simultaneously—including web GUI access, FTP file transfer, and raw data streaming
 - One RS232C port
 - One satellite more serial ports can be remote
 - One RTCM correction transmission or a remote modem supporting all the same functions that are available through the 10BaseT/100BaseT port
 - Bluetooth
 - Multiple Bluetooth connections are supported to over PPP
 - 1 USB port:
 - Allows the connection of external USB memory sticks or hard drives for increased data storage
 - Security features:
 - User authentication for streams
 - 1 Configurable RMS ethernet ports for HTTP, and
 - WebGUI access can be password protected with variable security settings
 - Email client for alarming and notification of various receiver parameters

positioning and outputs

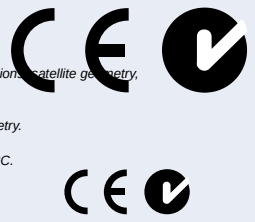
- 1 Hz, RMS
- 1 ppm Hz, RMS2
- RT-17/RT-27 outputs
- CMR, CMR+, BINEX and RTCM 2.1, 2.2, 2.3

control software

- HTML web browser on demo port Intern with Explorer 6.0 voltage
- antenna on 26 pin D sub connector with over
- Zephyr 15 Geodetic hours model of 2, and EDO Dorne 8
- in the event of power source outage

- The availability of the L5 signal is dependent on the U.S. government.
- Accuracy and reliability may be subject to anomalies such as multipath, obstruction, satellite geometry, and atmospheric conditions. Always follow recommended survey practices.
- Depends on WAAS/EGNOS system performance.
- May be affected by atmospheric conditions, signal multipath, and satellite geometry. Initialization reliability is continuously monitored to ensure highest quality.
- The receiver will operate normally to -40 °C, internal batteries are rated to -20 °C.
- Use of three serial ports requires use of an adaptor that is not included with the kit. Contact your local Trimble authorized distribution partner for more information.
- Bluetooth type approvals are country specific. Contact your local Trimble authorized distribution partner for more information.

Specifications subject to change without notice.



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