

Trimble R2

GNSS RECEIVER

VERSATILITY IN THE FIELD. FLEXIBILITY FOR YOUR WORKFLOW.

Work the way you want with the Trimble® R2 GNSS receiver. Using trusted Trimble technology the R2 receiver gives you the freedom to configure a solution by simply selecting the accuracy and GNSS performance to suit your application. Capable of achieving submeter to centimeter level positioning accuracy the Trimble R2 is the answer to keep you working productively in a wide range of geospatial applications, no matter what your workflow requirements are.

Whether you are performing pole-based stakeouts, surveying on roads, in mines or on construction sites, locating buried assets such as pipes and cables, capturing GIS field assets, or carrying out precision survey measurements, the versatile Trimble R2 is purpose-built for surveyors and mapping and GIS professionals alike.

Simple to setup and easy-to-use, the Trimble R2 pairs with any Trimble handheld, Trimble Access™ controller, or consumer-grade smart device across a variety of operating systems and platforms, to deliver reliable, high quality real-time data every time.

A Simple, Rugged System for Everyday Needs

Built to withstand the rigors in the field, the rugged IP65-rated Trimble R2 receiver will work as hard as you do in tough outdoor conditions. Its one-button start up and compact, streamlined form factor makes it fast to set up and can be operated either mounted on a pole, on a backpack or on a vehicle. The field-swappable battery means all day productivity with no interruptions, keeping you focused on the job at hand.

Technology to Keep you Productive

The Trimble R2 is capable of tracking the full range of GNSS satellite constellations and augmentation systems, and comes with an integrated Trimble Maxwell™ 6 chip and 220 channels to provide you with reliable accuracy and positioning performance. Achieve higher accuracy in real-time with the flexibility to choose correction sources from traditional RTK, VRS networks, to Trimble RTX™ correction services delivered by both satellite and Internet/cellular.

Trimble has evolved its Floodlight™ satellite shadow reduction technology to ensure the R2 receiver is able to provide reliable, accurate data even in difficult GNSS environments. Equipped with this advanced GNSS technology, you can achieve remarkable improvements to position availability and accuracy when heavy overhead cover, such as tree canopy and buildings, obstruct satellite signals, making even tough GIS workflows easier.

A Complete Solution

Connect the Trimble R2 receiver to your preferred controller or mobile device via a wireless Bluetooth® connection and add proven Trimble field and office software workflows to complete the solution. Data can be collected with the customizable workflows of Trimble field software such as Trimble Access or Trimble TerraFlex™ software that allow your teams to easily collect and communicate information between the field and office in real-time. Collected data can then be processed with Trimble office software, including Trimble Business Center or TerraFlex, providing you with data rich, high-quality deliverables for your organization.

For a simple, configurable, field-to-office solution, the innovative and flexible Trimble R2 GNSS receiver enables you to work accurately and productively your way.

Key Features

+++++++++++++++++

++++++++++++++

- ➤ A professional solution for geospatial applications ranging from sub-meter to centimeter accuracies to support any GIS or survey-grade workflow
- Easily collect data by pairing with devices such as smartphones, tablets or Trimble handhelds using Trimble Survey and GIS software
- Fast to setup, easy to use, keeping you productive and focused at your task at hand
- Supports multiple satellite constellations and correction sources for accurate data at any location
- Trimble Maxwell 6 chip with 220 channels and leading GNSS technology maximizes data quality





Network RTK²

MECHANICAL

BATTERY AND POWER

Operation time on internal battery

Trimble R2 GNSS RECEIVER

++++++++++++++++

+++++++++++++++++++++

CONFIGURATION OPTION Type. Smart antenna Base operation Yes. Logging only. Rover operation Yes Rover position update rate 11 Hz, 2 Hz, 5 Hz Rover operation within a VRS Now™ network. Yes **MEASUREMENTS** · Advanced Trimble Maxwell 6 custom GNSS chip High-precision multiple correlator for L1/L2 pseudo-range measurements Unfiltered, unsmoothed pseudo-range measurements data for low noise, low multipath error, low-time domain correlation, and high-dynamic response Very low noise carrier phase measurements with <1 mm precision in a 1 Hz bandwidth Signal-to-noise ratios reported in dB-Hz Trimble EVEREST™ multipath signal rejection Proven Trimble low elevation tracking technology 220-channel GNSS 4-channel SBAS (WAAS/EGNOS/MSAS/GAGAN) POSITIONING PERFORMANCE SBAS (WAAS/EGNOS/MSAS/GAGAN) Positioning¹

 Trimble RTX Positioning

 CenterPoint® RTX
 4 cm RMS

 Horizontal accuracy
 9 cm RMS

 FieldPoint RTX™
 10 cm Horizontal RMS

 RangePoint® RTX
 30 cm Horizontal RMS

 ViewPoint RTX™
 50 cm Horizontal RMS

User interface. LED indicators for receiver status On/Off key for one-button startup Dimensions. 14.0 cm (5.5 in) diameter x 11.4 cm (4.5 in) height Weight . 1.08 kg (2.38 lb) receiver only

ENVIRONMENTAL Temperature

 Temperature
 -20 °C to +55 °C (-4 °F to +131 °F)

 Operating
 -20 °C to +75 °C (-40 °F to +131 °F)

 Storage
 -40 °C to +75 °C (-40 °F to +167 °F)

 Humidity
 100% condensing

 Waterproof
 IP65

 Pole drop
 Designed to survive a 2 m (6.6 ft) drop onto all
 faces and corners onto concrete (25C) Non-operating ... To 75 g, 6 ms, saw-tooth
Operating ... To 40 g, 10 ms, saw-tooth
100 shock events at 2 Hz rate

INTERNAL ANTENNA

COMMUNICATIONS

USB ... 1 USB 2.0 (Type B) device
Wi-Fi ... Simultaneous client and access point (AP) modes
Bluetooth wireless technology. Fully-integrated, fully-sealed
2.4 GHz Bluetooth module⁵
Network protocols. HTTP (web browser GUI); NTP Server, TCP/IP or UDP;
NTRIP v1 and v2, Client mode; mDNS/uPnP service discovery;

CERTIFICATIONS

IEC 60950-1 (Electrical Safety); FCC OET Bulletin 65 (RF Exposure Safety); FCC Part 15.105 (Class B), Part 15.247, Part 90; Bluetooth SIG; IC ES-003 (Class B); Radio Equipment Directive 2014/53/EU, RoHS, WEEE; Australia & New Zealand RCM; Japan Radio and Telecom MIC

"Made for iPhone" and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPhone or iPad respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPhone or iPad may affect wireless performance.

iPad, iPhone and Retina are trademarks of Apple Inc., registered in the U.S. and other countries. iPad mini is a trademark

- Depends on SBAS system performance.

 Accuracy and reliability may be subject to anomalies such as multipath, obstructions, satellite geometry, interference and atmospheric conditions. Always follow recommended practices.

 CenterPoint RTX accuracy is typically achieved within 5 minutes in select regions, and within 30 minutes worldwide. FieldPoint RTX accuracy is typically achieved within 5 minutes in select regions, and within 15 minutes worldwide. RangePoint RTX and ViewPoint RTX accuracy is typically achieved within 5 minutes worldwide.
- worldwide.

 Receiver accuracy and convergence time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees and buildings.

 Bluetooth type approvals are country-specific. For more information, contact your local Trimble office
- The actual available capacity of the internal memory is less than the specified capacity because the firmware occupies part of the memory. The available capacity may change when you upgrade receiver firmware

Specifications subject to change without notice.







NORTH AMERICA

Trimble Inc. 10368 Westmoor Dr Westminster CO 80021 USA

FUROPE

Trimble Germany GmbH Am Prime Parc 11 65479 Raunheim **GERMANY**

ASIA-PACIFIC

Trimble Navigation Singapore Pty Limited 80 Marine Parade Road #22-06, Parkway Parade Singapore 449269 SINGAPORE

Contact your local Trimble Authorised Distribution Partner for more information

© 2015–2017, Trimble Inc. All rights reserved. Trimble, the Globe & Triangle logo, CenterPoint, and RangePoint are trademarks of Trimble Inc., registered in the United States and in other countries. Access, CMR+, EVEREST, FieldPoint RTX, Floodlight, Maxwell, RTX, TerraFlex, ViewPoint RTX, and VRS Now are trademarks of Trimble Inc. The Bluetooth word mark and logor owned by the Bluetooth SIG, Inc. and any use of such marks by Trimble Inc. is under license. All other trademarks are the property of their respective owners. PN 022516-200H (05/17)

at 18 V, in rover modé

