CUSTOMER FAQ

TRIMBLE R10 GNSS SYSTEM FREQUENTLY ASKED QUESTIONS

Trimble R10 GNSS System – General Questions (Updated: October 2013)

1. **What controllers is the Trimble R10 GNSS receiver compatible with?**

   The Trimble R10 is compatible across the line of Trimble Survey controllers that run Trimble Access™ software, including the TSC2®, TSC3, Trimble Tablet, and TCU.

2. **What field software is the Trimble R10 compatible with?**

   The Trimble R10 is compatible with the latest version Trimble Access field software 2012.20 and above.

3. **Which version of Trimble Business Center supports the Trimble R10 GNSS receiver?**

   Trimble Business Center v. 2.80 and above.

4. **What type of memory card does the Trimble R10 accept?**

   There is no removable memory card in the Trimble R10. The Trimble R10 comes with 4 GB internal memory. Additionally, data can also be logged onto the controller, which supports USB and SD cards.

5. **What are the two LEMO ports on the bottom of the unit for and why are they keyed differently?**

   One of the ports is a serial port and the other one is a USB port. The ports are keyed differently to prevent a user from connecting the wrong cables.

6. **What is the IP rating on the Trimble R10?**

   The Trimble R10 is rated IP67.

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7. **What is the battery life of the Trimble R10?**

   The operating times on internal battery varies depending on how you are using it:

   - 450 MHz receive only option . . . . . .5.5 hours
   - 450 MHz receive/transmit option (0.5 W) . . . . . 4.5 hours
   - 450 MHz receive/transmit option (2.0 W) . . . . . 3.7 hours
   - Cellular receive option . . . . . .5.0 hours

8. **How does the Wi-Fi work?**

   The Trimble R10 can be used as a hotspot for other WiFi enabled equipment, which is very useful when you want to access Internet on your tablet during a field job.

9. **Does the Trimble R10 support OmniSTAR?**

   Yes, the Trimble R10 supports OmniSTAR services, including OmniSTAR HP, XP, G2, and VBS. However, you need to purchase an OmniSTAR subscription in order to use OmniSTAR services.

10. **Is the R10 fully compatible with terrestrial corrections like CMR+, CMRx, RTCM, or from a correction from a non-GNSS base (4700/5700)?**

    Yes.

11. **How much does the Trimble R10 cost?**

    Please contact your local dealer for pricing. If you do not know who your local dealer is, please use the dealer locator tool: http://dealerlocator.trimble.com/

12. **When will the Trimble R10 be available for purchasing?**

    The Trimble R10 is shipping. Please contact your local dealer for more information.

Trimble HD-GNSS

13. **What is Trimble HD-GNSS?**

    Trimble HD-GNSS is a new, state-of-the-art GNSS data processing technology that is a core technical component of the Trimble R10 GNSS receiver and core component of the GNSS post-processing engine in Trimble Business Center office software. Trimble HD-GNSS processing is precision-based and surpasses the older fixed / float technique. Trimble HD-GNSS processing offers unsurpassed GNSS performance in the field.

14. **How does the multipath problem get solved in thick tree canopy compared to the R8 systems?**

    Multipath is always a factor; however, Trimble HD-GNSS technology integrated in the R10 provides several benefits over the Trimble R8 including positioning in thick canopy.

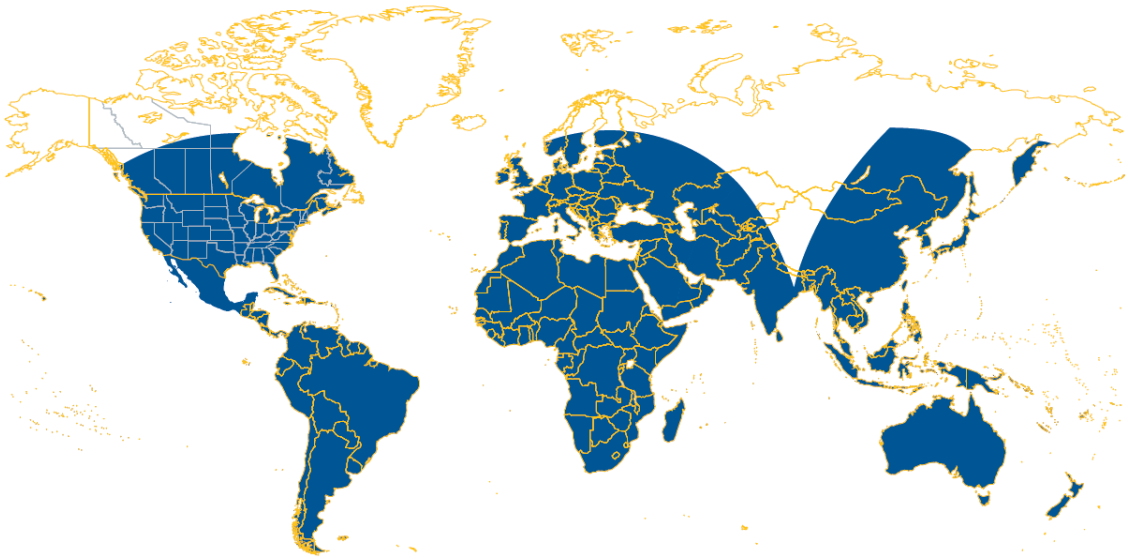
Trimble xFill

15. What is Trimble xFill?

Powered by Trimble RTX technology, Trimble xFill™ technology is a standard feature in the Trimble R10 that allows surveyors to continue working in the event the primary RTK or VRS correction stream is not available. Please refer to the whitepaper for a complete description of what Trimble xFill is and how it works.

16. What regions is Trimble xFill supported in?

As of October 2013, Trimble xFill coverage includes most of North America and all of Central America and South America as well most of Europe, Russia and the Commonwealth of Independent States (CIS), Africa, Asia and Australasia.



17. Is Trimble xFill a real-time solution?

Yes, Trimble xFill is a real-time solution.

18. Do I need to purchase a Trimble xFill subscription in order to use the Trimble xFill functionality?

No, Trimble xFill comes as a standard feature with all Trimble R10 purchases. A subscription is not required.

19. How is Trimble xFill activated?

Trimble xFill comes activated on all Trimble R10 GNSS receivers. Trimble xFill needs to be enabled in Trimble Access. When Trimble xFill is enabled, Trimble Access will automatically switch over to Trimble xFill in the event of a radio or cellular outage.

Trimble CenterPoint™ RTK™

20. What is Trimble CenterPoint RTX?

Trimble CenterPoint RTX is a high-accuracy, low convergence-time Precise Point Positioning (PPP) system that provides real-time centimeter positioning without the need for a RTK base station or VRS network.

21. Do I need to purchase a Trimble CenterPoint RTX subscription in order to use this functionality?

Yes.

22. Where can I purchase a Trimble CenterPoint RTX subscription?

Subscriptions can be purchased from Trimble Positioning Services. Details can be found here: http://www.trimble.com/positioning-services/contact-us.aspx

23. What subscription models are available for Trimble CenterPoint RTX?

Trimble CenterPoint RTX subscriptions are available for 3, 6, 9 and 12 months.

Trimble SurePoint

24. What is Trimble SurePoint?

Trimble SurePoint™ technology is a feature in the Trimble R10 GNSS receiver that uses integrated tilt sensors and an electronic bubble (eBubble) to offer the highest possible positioning accuracy. This technology also guards against collecting erroneous data by warning users against storing measurements when the survey pole is not plumb.

Tilt compensation extends the convenience of GNSS to points previously inaccessible with a standard surveying receiver, shortens the time on point and aids safety by letting surveyors concentrate on their surroundings.

Trimble 360

25. What is Trimble 360?

Trimble 360 is a powerful receiver technology that allows the system to track all present and future GNSS constellations and augmentation signals (GPS, GLONASS, Galileo and Compass; plus existing and planned augmentations to these GNSS constellations). This is all achieved using the Trimble HD-GNSS processing engine and the 440 GNSS channel receiver.