

Release Notes

GEOSPATIAL DIVISION
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TRIMBLE SURVEY GNSS FIRMWARE

Trimble Survey GNSS Firmware Version 5.33 (January 2018)

Requirements

This firmware version includes fixes and enhancements to the Survey Receiver Firmware.

Note: For best results, users should upgrade to Trimble Access 2017.10 or later when using Survey GNSS Receiver Firmware version 5.33.

Supported GNSS Receivers

The following tables identify the Survey GNSS receivers supported by this revision.

| Integrated | |
|--------------------|---------|
| Receiver | Support |
| Trimble R10/R10 LT | • |
| Trimble R8s/R8s LT | • |
| Trimble R8 Model 4 | • |
| Trimble R8 Model 3 | • |
| Trimble R8 Model 2 | - |
| Trimble R8 Model 1 | - |
| Trimble R6 Model 4 | • |
| Trimble R6 Model 3 | • |
| Trimble R6 Model 2 | - |
| Trimble R6 Model 1 | - |
| Trimble R4 Model 3 | • |
| Trimble R4 Model 2 | • |
| Trimble R4 Model 1 | - |
| Trimble R2 Model 1 | • |

| Modular | |
|--------------------------|---------|
| Receiver | Support |
| Trimble R9s | • |
| Trimble NetR9 Geospatial | • |
| Trimble R7 Model 2 | - |
| Trimble R7 Model 1 | - |
| Trimble R5 | - |
| Trimble 5700 Model 2 | - |
| Trimble 5700 Model 1 | - |

| Handheld | |
|---------------|---------|
| Receiver | Support |
| Trimble Geo7X | - |
| Trimble GeoXR | - |
| Trimble R3 | - |

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Firmware Warranty Dates

To upgrade your receiver's firmware, a current and valid receiver warranty is required. Your warranty must cover the time period beyond the first day of the month of the "Warranty Date".

Example: You purchase a Trimble R10 receiver on 1 June 2013 with the standard one-year firmware support warranty. Your warranty end date will be June 2014. Since the end date is beyond May 2014, you can upgrade your receiver to v5.00.

| Version | Release Date | Warranty Date |
|--|----------------|----------------|
| 5.33 | January 2018 | June 2017 |
| 5.32 | December 2017 | June 2017 |
| 5.30 | July 2017 | June 2017 |
| 5.22 | March 2017 | May 2015 |
| 5.20 | December 2016 | May 2015** |
| 5.15 | September 2016 | May 2015** |
| 5.14 | May 2016 | May 2015 |
| 5.11 | December 2015 | May 2015 |
| 5.10 | September 2015 | May 2015 |
| 5.03 | June 2015 | May 2014 |
| 5.01 | April 2015 | May 2014 |
| 5.00 | March 2015 | May 2014 |
| 4.93 | November 2014 | May 2014 |
| 4.91 | September 2014 | May 2014 |
| 4.90 | June 2014 | May 2014 |
| 4.84 | December 2013 | April 2013 |
| 4.81 | July 2013 | April 2013 |
| 4.80 | April 2013 | April 2013 |
| 4.71 | February 2013 | March 2013* |
| 4.70 | January 2013 | March 2013* |
| 4.64 | February 2013 | March 2013 |
| 4.63 | October 2012 | August 2012 |
| 4.61 | March 2012 | March 2012 |
| 4.44 | December 2011 | April 2011 |
| 4.43 | August 2011 | April 2011 |
| 4.19 | November 2010 | September 2009 |
| 4.12 | December 2009 | September 2009 |
| 4.11 | September 2009 | September 2009 |
| *Trimble R10 Warranty Date = August 2012 | | |
| **Trimble R9s and R10 Warranty Date = May 2014 | | |

Version 5.33 Release Notes

The release notes describe the added features and improvements made to Trimble Survey GNSS receiver firmware.

| Issue | Type | R10 | R9s | NetR9 | R8s | R8 ¹ | R7 ² | Geo7 | R6 ³ | R5 | R4 ⁴ | R2 |
|--|-------------|-----|-----|-------|-----|-----------------|-----------------|------|-----------------|----|-----------------|----|
| General WebUI enhancements | Enhancement | • | • | • | | | | | | | | • |
| GNSS signal tracking & processing enhancements | Enhancement | • | • | • | • | • | | | • | | • | • |
| RTX signal tracking & processing enhancements | Enhancement | | • | • | | | | | | | | |
| Improved post-processing accuracy for measurements collected in challenging environments | Enhancement | | | | | | | | | | | • |
| No GPS L1 observables written to RINEX 2.x files | Bug Fix | | | • | | | | | | | | |
| Approx. antenna position added to RINEX 3.x header | Enhancement | | | • | | | | | | | | |

1 R8 Model 4, R8 Model 3

2 R7 Model 2

3 R6 Model 4, R6 Model 3

4 R4 Model 3, R4 Model 2

Before you update the receiver, download and backup any data files that are on the receiver.

Trimble Installation Manager

Trimble Installation Manager is a free download and can be found here:

<http://www.trimble.com/installationmanager>

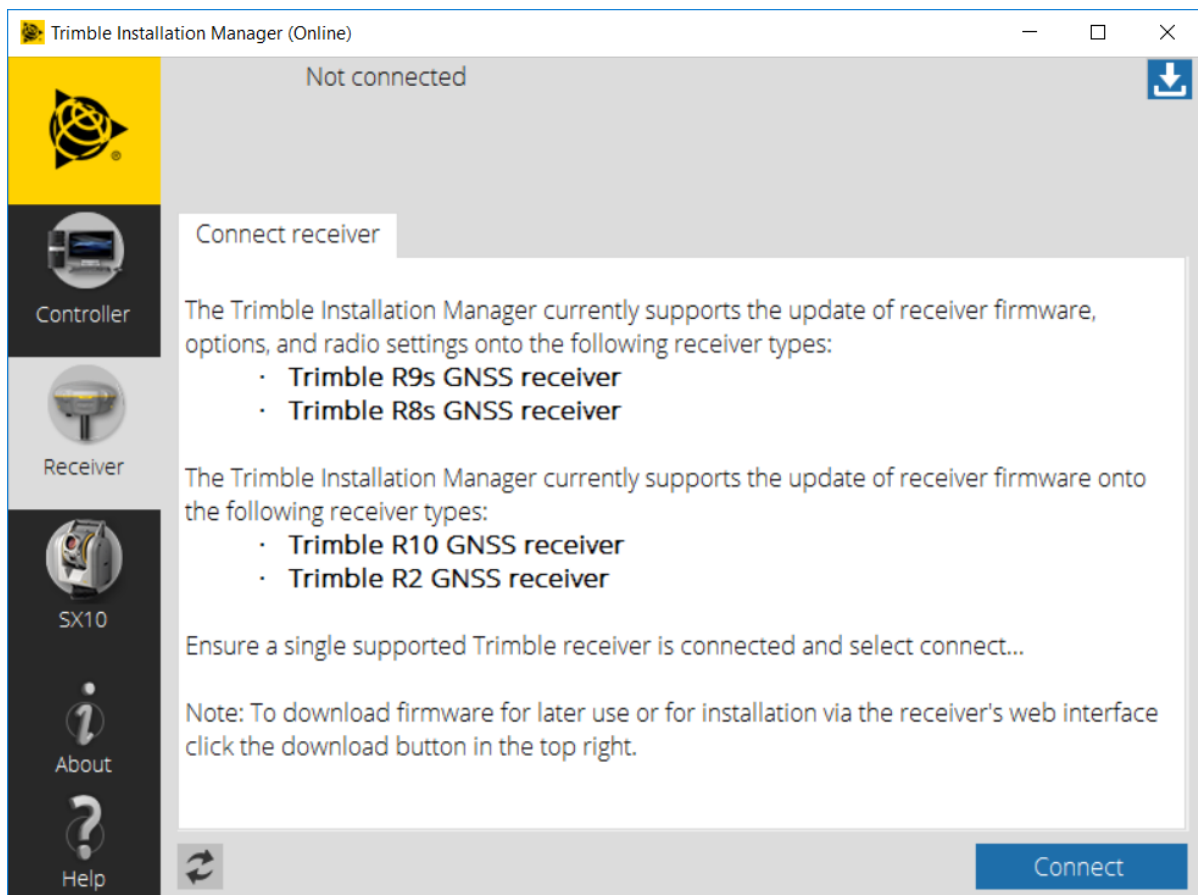
The primary Trimble Installation Manager features for GNSS receivers are:

- Warranty Activation
- Option Loading
- Radio Configuration
- Firmware Installation

The following GNSS receivers are currently supported:

- Trimble R2 (Firmware Installation)
- Trimble R8s (Warranty Activation, Option Loading, Radio Configuration, Firmware Installation)
- Trimble R9s (Warranty Activation, Option Loading, Radio Configuration, Firmware Installation)
- Trimble R10 (Firmware Installation)


After the installation process is complete, launch Trimble Installation Manager, connect the receiver with the appropriate data cable to your computer and click on **Connect**.

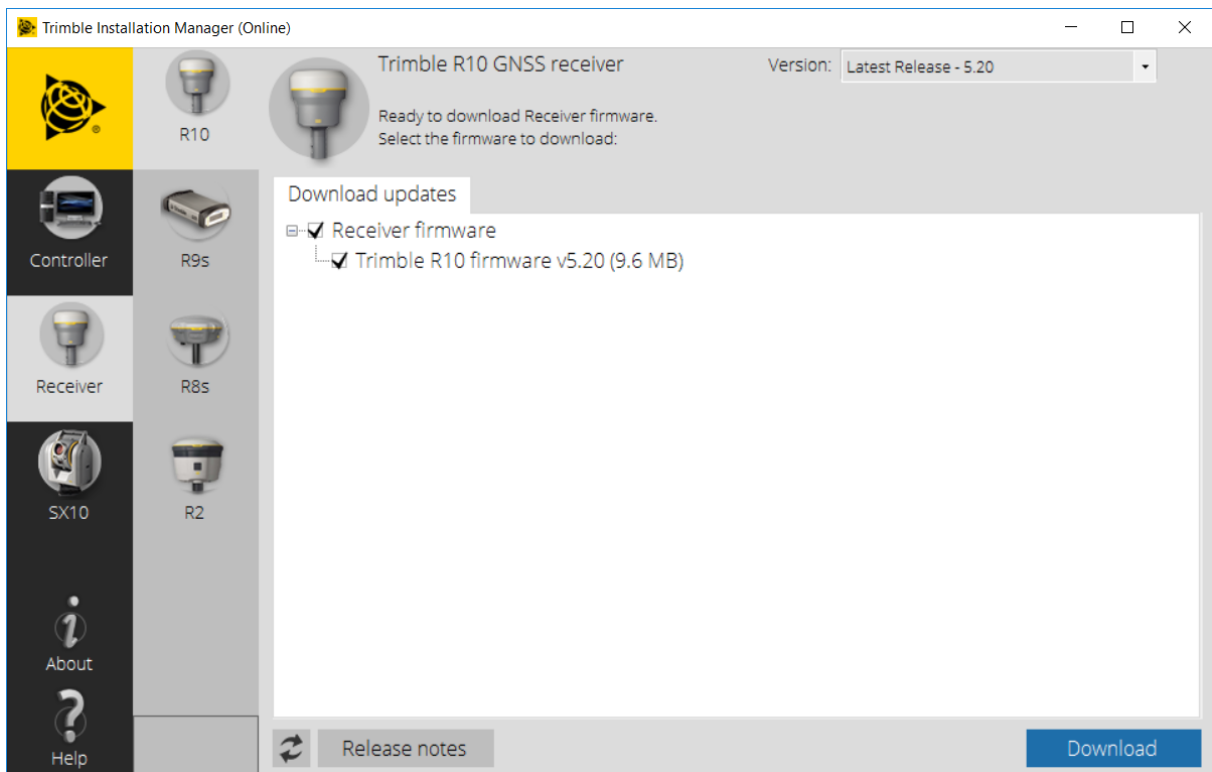


Trimble Installation Manager will display receiver-specific information. Select the firmware version you would like to install from the selection menu in the top right corner. Click on **Install** to start the installation process.

Download Trimble Survey GNSS Firmware to a Local Machine using Trimble Installation Manager

The latest version of Trimble Survey GNSS firmware for supported receivers can now be downloaded and saved to your local machine via Trimble Installation manager.

1. Launch Trimble Installation Manager – it is not necessary to have a receiver connected to your computer.
2. Click the Receiver tab.
3. Click the Download button in the upper right corner. 
4. Select the appropriate receiver model on the left.
5. Select the desired firmware version from the dropdown menu in the upper right – the latest release is selected by default.
6. Click Download.
7. Browse to the location where you would like to save the file and click OK – the firmware file will automatically be saved to a folder labeled with the receiver model and firmware version.



Download Information for Trimble Survey GNSS Firmware not using Trimble Installation Manager

The latest version of Trimble Survey GNSS Firmware can be downloaded from the Trimble website within the support page of each supported receiver.

1. Go to www.trimble.com.
2. Click on the *Support & Training* link at the top of the page.
3. Select *Support A-Z* from the drop-down menu.
4. Find your receiver on the list of supported products.
Hint: Click on the associated first character of your receiver type. All survey receivers fall under "T" for "Trimble XX Receiver."
5. Click on the link for your receiver type.
6. Click on the *Downloads* link.
7. The latest firmware version should be located at the top of the page.
8. Click on the link to the latest version.
9. Your browser will begin downloading the latest Winflash utility installer that contains your firmware.
10. At this point you can save the Winflash installer to a local folder or click on *Run (Open)* to begin installing the utility.
Note: You may need to accept some security warnings based on your computer configuration.

Installing Winflash Utility

At this point you will continue from the last step above or if you have saved the downloaded Winflash utility, you must navigate to the folder that contains the file and click on *WFC-Rx-5x-vxxx.exe*. (xxx = latest firmware version).

1. The Winflash installer will start. Click on the *Next* button.
2. Read the License Agreement and click on *Yes* to accept the terms.
3. At this point the Winflash installer will try to detect any previous versions of Winflash on your system
 - i. If the Winflash installer detected a previous version of Winflash on your computer, it will display the current Winflash folder in use. Click on *Next*.
 - ii. If the Winflash installer does not detect a previous version of Winflash on your computer, it will ask you to accept the default folder for Winflash. If you do not want to use the default location then:
 - iii. Click on the *Browse...* button and navigate to the desired folder location you want to use.
 - iv. Click *Ok* to accept the new location.
 - v. Click on *Next* to continue.
 - vi. Select the Program Folder location for the program icon, and then click on *Next*.
4. Winflash installer will now install all required files to run the Winflash utility.
5. The Winflash installer will now ask if you want to register Winflash. You have three options:
 - a. **Register via the Internet** (web access required)
 - b. **Register by Fax or Mail**. Selecting this option will open a document. Complete the document and fax or mail to Trimble.
 - c. **Register Later**.
6. The Winflash installation is now complete.

Loading New Firmware

Use the Winflash utility to install the latest firmware on your Trimble GNSS receiver.

1. Click on the *Winflash* icon added to the Start menu on your computer.
2. Click on the *Device type* (receiver group) for your receiver type.
3. Click on the *PC serial port* drop down menu to select the serial port your receiver is connected to.
4. Click on the *Next* button.
5. From the *Operations* list box, click on the *Load GPS software* operation.
6. Click on the *Next* button.
7. Click on the *Available Software* for your receiver and the firmware you just downloaded. If you have installed firmware before, the firmware versions are still available in the listing.
8. Click on the *Next* button.
9. The next screen shows the current settings and actions to be taken by the Winflash utility.
10. Click on the *Finish* button.
11. Winflash will now load the latest firmware onto your receiver. This procedure can take several minutes. If the firmware loads correctly, then click on the *Exit* button.

Loading the USB Driver

This version of Winflash includes the USB driver necessary to connect the Trimble R10 with USB to your computer. Your PC will assign a COM port as your USB connection. This step is not necessary for Windows 10 users or for users who have previously installed the Trimble USB driver.

Once you have installed Winflash, the USB Driver installer is found in the Program Files\Common Files\Trimble\USB Driver¹ folder. Follow the steps below to install the USB Driver.

1. Using Windows Explorer (or equivalent), navigate to the *Program Files\Common Files\Trimble\USB Driver₁* folder on your computer.
2. Double click on the *Win7_USB_Installer.exe* file in the folder. A *Device Driver Installation Wizard* dialog box will open. **Note:** If you are running Windows 7 64-bit, you will see a second dialog box, which automatically loads the 64-bit USB driver.
3. Click on the *Next* button if the installation wizard to continue.
4. The USB Driver will install and present you will and dialog showing the USB drivers that were installed. Click the *Finish* button.
5. The USB Driver is now installed. **Note:** The Windows 7 64-bit USB driver will complete its installation.
6. Plug the USB cable into the USB port of the R10, and then plug the other end into your computer. Your computer will find the device and assign a COM Port for the USB connection. A message is displayed in the Taskbar indicating which COM port the USB is assigned to.

¹For Windows 7 users, the *USB Driver* folder is located in *Program Files (x86)\Common Files\Trimble\USB Driver*

For More Information

For more information, please contact your local Trimble Distribution Partner.