

Release Notes

TRIMBLE GEOSPATIAL

17 November 2023

TRIMBLE SURVEY GNSS FIRMWARE

Trimble Survey GNSS Firmware version 5.63/6.23 (November 2023)

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

Note: For best results, users should upgrade to Trimble® Access™ field software version 2023.10 (2017.24 for legacy controllers) or later when using Survey GNSS Receiver Firmware version 5.63/6.23.

Supported GNSS receivers

The following table identifies the Survey GNSS receivers supported by this revision. 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."

Receiver Model	Firmware Version	Warranty Date
Trimble R780	6.23	December 2022
Trimble R750 / R750MON		
Trimble R12i		
Trimble R12		
Trimble R10 Model 2		

Receiver Model	Firmware Version	Warranty Date
Trimble R10 / R10 LT	5.63	December 2022
Trimble R9s		
Trimble NetR9 Geospatial		
Trimble R8s / R8s LT		
Trimble R8 Model 4, 3		
Trimble R6 Model 4, 3		
Trimble R4 Model 3, 2		
Trimble R2		

New Features and Changes

Description	Type	Supported Receiver Models
Unable to resolve IP address when using LTE	Bug Fix	Trimble R750
Fixed issues with changes not being saved when adding new users to the receiver's WebUI	Bug Fix	Trimble R12i Trimble R12 Trimble R780 Trimble R580 Trimble R750 Trimble R10-2
Addressed issues with Autobase randomly changing radio settings when enabled	Bug Fix	Trimble R780
Improved the Trimble R2 Bluetooth connection to Android devices using Trimble TerraFlex® field software	Enhancement	R2
Ukraine language support added to WebUI	Enhancement	All Receivers
Corrected problems with xFill®/RTX™ not shutting off when disabled	Enhancement	All Receivers
Trimble IonoGuard™ technology enabled by default on the receiver	Enhancement	Trimble R12i Trimble R12 Trimble R780 Trimble R580 Trimble R750 Trimble R10-2

Note: Before updating, download and backup any data files that are on the receiver.

Trimble IonoGuard (Ionospheric Mitigation)

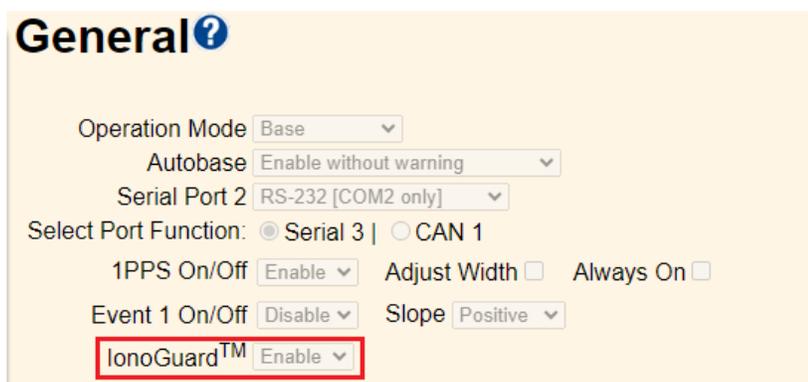
Starting in Firmware 5.61/6.21, Trimble Survey GNSS firmware includes Trimble IonoGuard technology for ionospheric disturbance mitigation. There are two modes for IonoGuard: *Base Mode* and *Fallback Mode*.

Base Mode:

Ionospheric disturbance detection runs at the base, and the disturbance information is sent to the rover via RTCM/CMRx messages.

Fallback Mode:

Ionospheric disturbance detection at the rover runs when the data is received from the base does not include IonoGuard messages.



The image shows a screenshot of the 'General' settings menu. The 'IonoGuard™' option is highlighted with a red box and is set to 'Enable'. Other visible settings include:

- Operation Mode: Base
- Autobase: Enable without warning
- Serial Port 2: RS-232 [COM2 only]
- Select Port Function: Serial 3 (selected) | CAN 1
- 1PPS On/Off: Enable
- Adjust Width:
- Always On:
- Event 1 On/Off: Disable
- Slope: Positive

Note: The impact of the solar flares/ionospheric interference depends on your device and geographic location.

Trimble Installation Manager

Trimble Installation Manager is a free download and can be found here: install.trimble.com

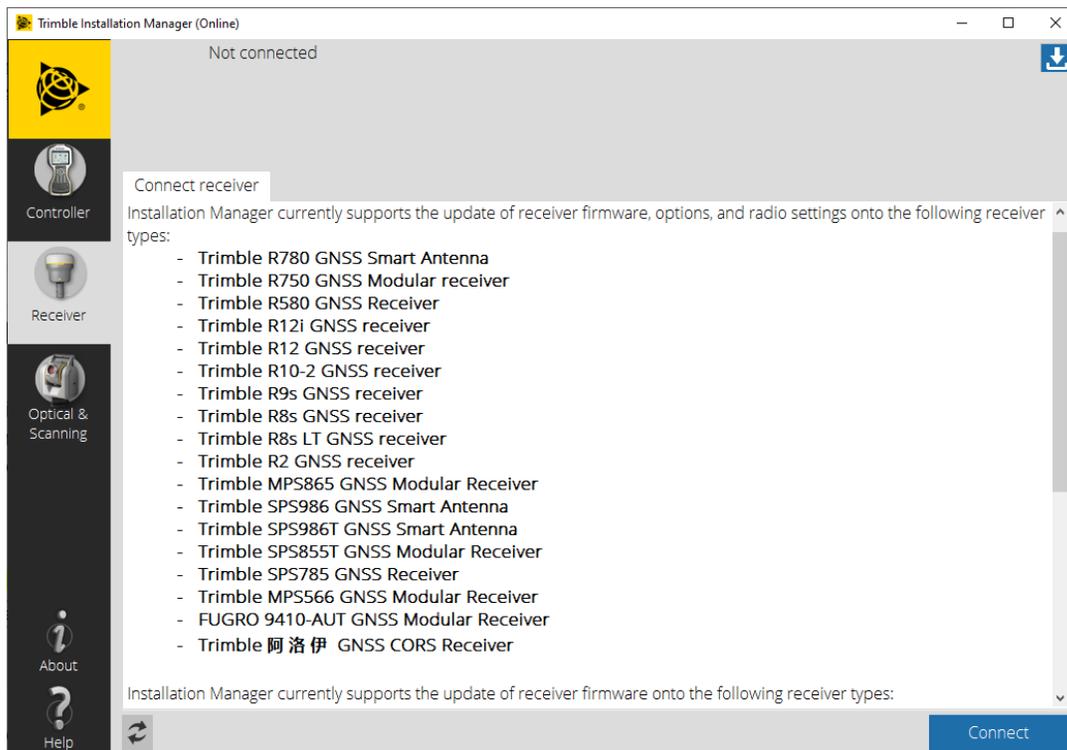
The primary Trimble Installation Manager functions for GNSS receivers are:

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

The following GNSS receivers are currently supported:

Receiver Model	Supported Functions
Trimble R2	Warranty Activation
Trimble R8s	Option Loading
Trimble R9s	Radio Configuration
Trimble R750 / R750MON	Firmware Installation
Trimble R10-2	
Trimble R12	
Trimble R12i	
Trimble R780	
Trimble R580	
Trimble R10	Firmware Installation

After installing, 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.

For legacy Trimble Survey GNSS receivers not supported by Trimble Installation Manager, the latest version of firmware can be downloaded (Winflash installer or *.timg file) from the [Support & Downloads for Discontinued Products](#) page on the Trimble Geospatial website.

For more information

For more information, contact your local Trimble Distribution Partner.