

Trimble S6 and SPS700 Total Station Firmware Release Notes

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Introduction

These release notes contain information about the Trimble® S6/SPS700 firmware version R.3.0.

In a new instrument, Trimble S6/SPS700 firmware version R.3.0 is already installed from the factory.

Upgrading from a previous version

If you have Trimble S6/SPS700 firmware version R2.1.0 or earlier, you can upgrade to version R3.0 yourself.

To check the existing Trimble S6/SPS700 firmware version:

1. Remove the Trimble CU controller.
2. Turn on the instrument.
3. When the level bubble appears on the face 2 display, select *Set*.
4. To view the current Trimble S6/SPS700 firmware version, select *Setup / Firmware version*.

The installation file for firmware version R.3.0 is available on www.trimble.com for both the Trimble S series and the SPS700 Construction Total Stations.

To upgrade the Trimble S6/SPS700 instrument:

1. Connect the instrument to an office computer with the Hirose 6 pin-to-PC USB cable (P/N 73840001).
2. Ensure that the Trimble CU controller is removed and that you have a fully charged battery in the instrument.
3. Run the S_SPS_UpdateR3.0.41.exe file to begin the firmware upgrade.
4. Follow the instructions in the installation wizard to complete the upgrade.

Using Trimble S6/SPS700 firmware with other Trimble products

Trimble® S6/SPS700 firmware version R.3.0 is compatible with the following Survey Field Softwares:

- Trimble Survey Controller version 11.20 or later
- Trimble Survey Manager version 2.10 or later
- Trimble Survey Pro version 4.1.4 or later

And the following Construction Field Software:

- SCS900 version 1.30 or later

Please check release notes for these softwares for information about Operating System Requirements and support for the new functionalities in the instrument listed below.

New features/enhancements

- Reduced measurement time in AutoLock mode.
- Ability to check the target ID not only upon search but also with each measurement. Only for STD measurements.
- Ability to support GDM data output through footconnector.
- New automatic mode for tracklight. Tracklight will blink fast when locked to a target and slow when not locked.
- Ability to only use the slow part of the search procedure to reduce search time at long range.

- Internal Barometer enabled to automatically read atmospheric pressure.
- Possibility to select the servo motors to operate on one gear rather than the current 5-speed gear system.

Changes

- Added friction constant to the vertical axis to avoid vertical vibrations in some individual instruments.
- Collimation test procedures on the F2 display improved.
- Improved initial radio connection to the TSC2.