

This document explains the firmware update procedure for the CA500/CA550 Multifunction Process Calibrator (hereafter referred to as the CA500 series).

When updating the firmware, be sure to follow this instruction manual.

Trademarks

- Microsoft, Windows 10, and Windows 11 are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- In this manual, the TM and ® symbols do not accompany their respective registered trademark or trademark names.
- Other company and product names are trademarks or registered trademarks of their respective holders.

Disclaimers

By downloading and installing this software, the customer agrees to all of the following disclaimers.

- Yokogawa bears no liability for any problems occurring as a result of downloading or installing this software.
- Yokogawa bears no responsibility for any damage caused directly or indirectly as a result of using this software.
- This software is provided free of charge, however no unlimited warranty against software defects exists, nor is any claim made that the product is free of all defects whatsoever. Also, Yokogawa is not always able to repair defects ("bugs") in, or respond to questions or inquiries about this software.
- Yokogawa reserves all rights to this software, including but not limited to all property rights, ownership rights, and intellectual property rights.

PC System Requirements

- Personal computer (PC)
A PC with a Core2 Duo 2 GHz or faster CPU and 1 GB or more of memory
- OS
Windows 10 or Windows 11

Downloading the Firmware Update Tool

From the Yokogawa webpage, download the CA500 Series Firmware Update Tool to a folder in your PC.

Webpage: <https://tmi.yokogawa.com/library/>

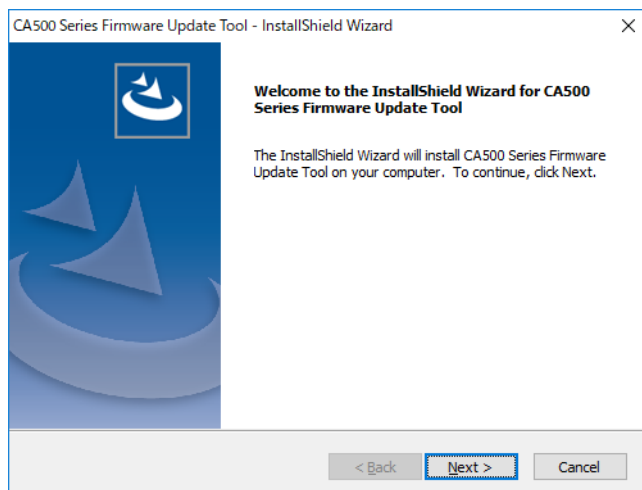
File name: CA500 Series Firmware Update Tool

Installing the Firmware Update Tool

This section explains the installation procedure of the CA500 Series Firmware Update Tool on Windows 10.

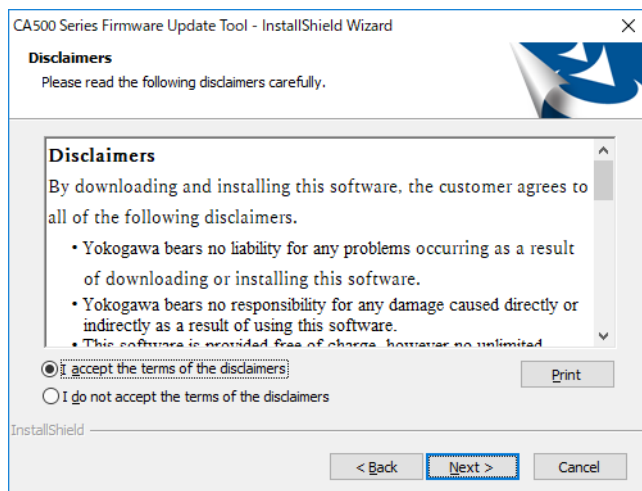
If the “User Account Control” window appears during the installation, click **Allow** or **Yes** to continue the installation.

1. Unzip the downloaded zip file on your PC's hard disk.
2. Run setup.exe in the unzipped files. An installation wizard starts.



3. Click **Next**.

Disclaimers are displayed.

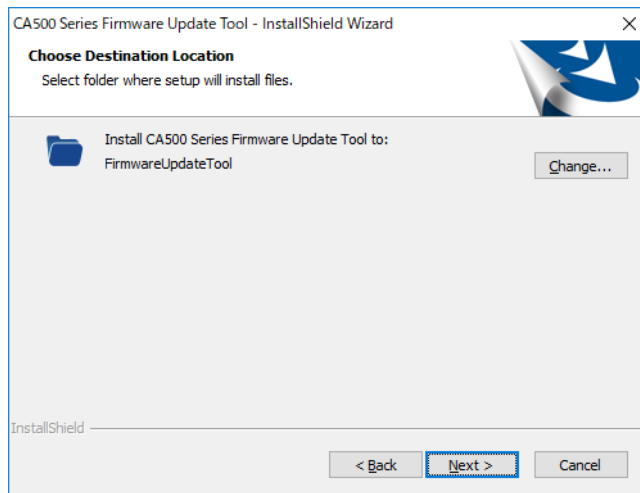


Note

If Microsoft .NET Framework 3.5 and 4.5 are not installed, their installation will start.

-
4. Read the disclaimers carefully. If you agree, click “I accept the terms of the disclaimers,” and then click **Next**.

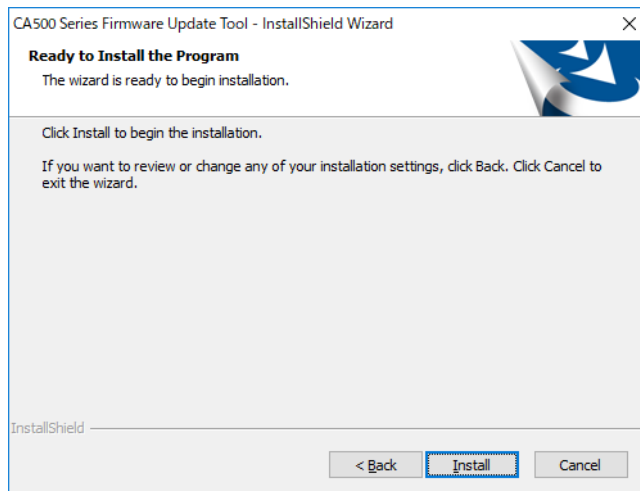
If you do not agree, click “I do not accept the terms of the disclaimers,” and click **Cancel** to cancel the installation. The firmware update tool will not be installed.



5. If you want to change the folder in which to install the firmware update tool, click **Change**, and specify the installation folder.

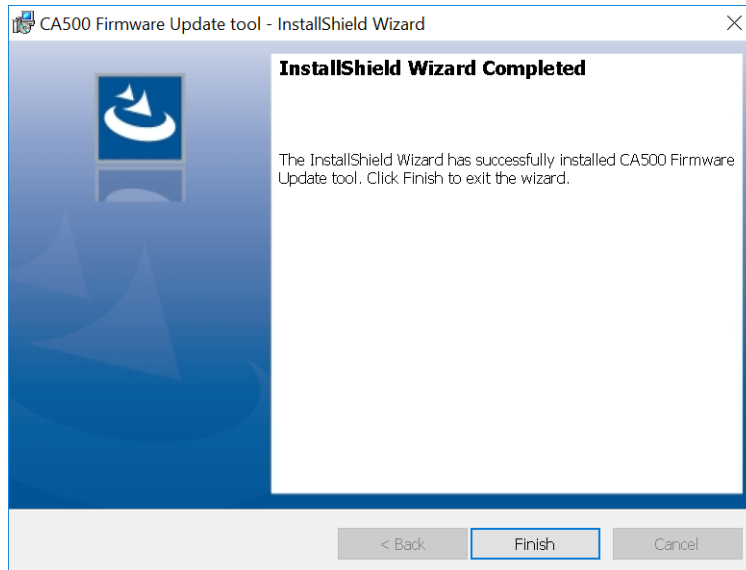
The default folder is where the firmware update tool was downloaded to.

Click **Next**.



6. Click **Install.** The installation begins.

If the installation is completed successfully, the following screen appears.



7. Click **Finish.**

The following folders and files are saved in the installation folder.

- Tool folder: Update firmware and update tool program
- FirmwareUpdateTool: FirmwareUpdateTool shortcut
- Manual_EN.pdf: English manual
- Manual_JA.pdf: Japanese manual

Updating the CA500 or CA550 Firmware

Installing the USB Driver

If you want to connect a CA500 or CA550 to a PC, download the USB driver from the Yokogawa webpage and install it. For the installation procedure, see the manual downloaded with the driver.

Webpage: <https://www.yokogawa.com/jp-ymi/tm/F-SOFT/>

Driver name: USB driver (YKCDC), version 1.0.3.0 or later

Connecting a CA500 or CA550 to a PC

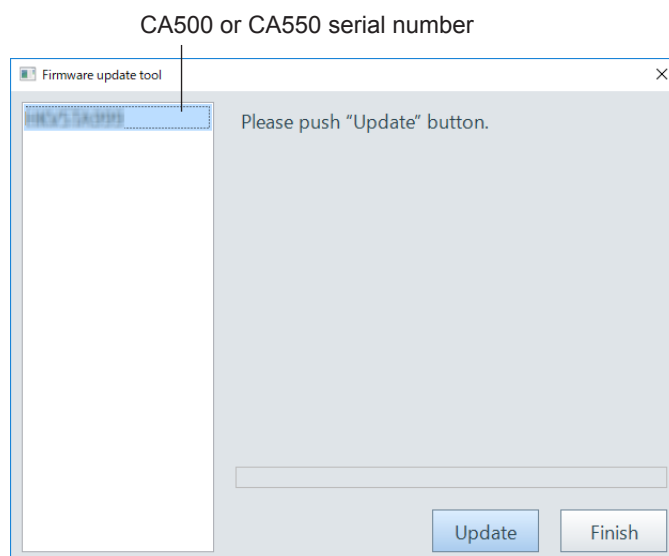
Connect the CA500 or CA550 to the PC in which the firmware update tool was installed via USB.

Turn on the CA500 or CA550.

If several CA500s or CA550s or both are connected to a single PC, only turn one of them on.

Operating the Firmware Update Tool

1. In the FirmwareUpdateTool folder, click the shortcut (FirmwareUpdateTool) to start the firmware update tool.
2. Check that the serial number of the CA500 or CA550 that is connected to the firmware update tool is displayed.



3. Click the serial number, and click **Update**.

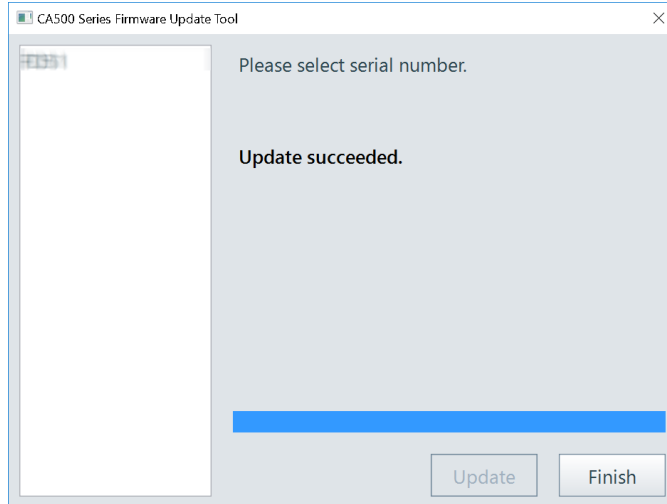
The firmware update will begin.

A progress bar shows the update progress. It takes approximately 5 minutes for the update to complete. Never remove the USB cable or turn off the CA500 or CA550 until the update is complete.

The CA500 or CA550 will restart several times during the update.

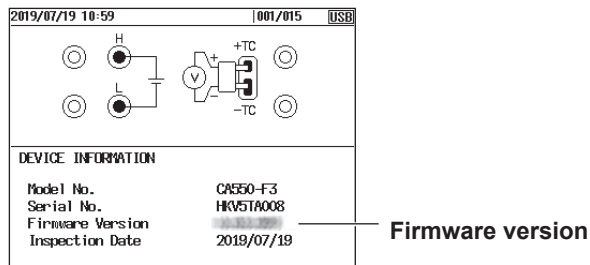
4. When the update finishes successfully, "Update succeeded" is displayed. Click **Finish** to finish the update.

If the update fails, an error message will appear. Click **Finish** to cancel the update. Check the items related to the error message, such as the connection method and procedure, and perform the update again.



Checking the Firmware Version

1. Press **INFO** on the CA500 or CA550.
2. The following product information screen appears. Check that Firmware Version is indicating the updated firmware version number.



Uninstalling the Firmware Update Tool

Delete the folder in which the firmware update tool was installed.