User's Manual

CW500
Power Quality Analyzer
Firmware Update Procedure

This document explains the procedure to update the CW500 Power Quality Analyzer firmware. When updating the firmware, be sure to follow this instruction manual.

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- In this manual, the TM and ® symbols do not accompany their respective registered trademark or trademark names.
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CW500 Operation
When operating the CW500, be sure to follow the manual supplied with the CW500.

Checking the CW500 Version

The current firmware version is displayed in the lower right of the screen that appears when you start the CW500.
If the current version is older than the latest firmware version provided on the YOKOGAWA webpage, update the firmware quickly.

CW500 firmware version
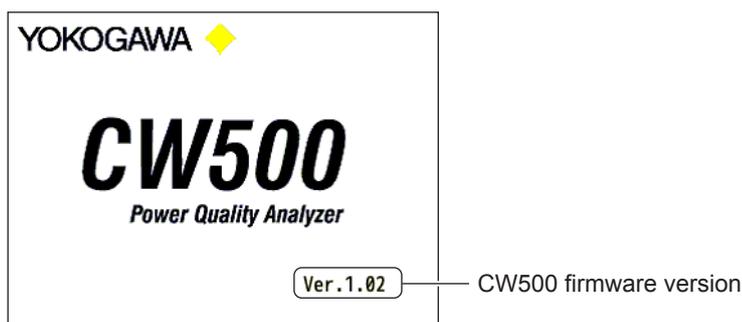
Saving Setup Data

When you update the firmware, the specified measurement conditions, saved data, and so on may be initialized to the factory default conditions. Back up the necessary data before updating the firmware. By loading the backup data into this instrument after updating, the settings can be returned to the same conditions that were in use before updating the firmware. For the backup procedure, see section 5.6, "Saved Data," in the User's manual.

Downloading the Latest Firmware

Preparing an SD Memory Card

To update the firmware, you will need an SD memory card that has been formatted on the CW500. Format an SD memory card by following the instructions in section 5.6, "Saved Data," in the user's manual so that there is no data in the SD memory card.

Downloading the Firmware

From the YOKOGAWA webpage, download the latest firmware (zip format) to a folder in your PC.

YOKOGAWA webpage URL: https://tmi.yokogawa.com/library/

File name: CW500_XXXX.zip (XXXX will vary depending on the firmware version.)

Unzip the downloaded file.

Check that the following six files are in the folder that is created.

- CW500XXXX.vup (XXXX will vary depending on the firmware version.)
- CW500.mot
- writer.mot
- writer.gui
- IM CW500-71EN.pdf (English manual)
- IM CW500-71JA.pdf (Japanese manual)

Copying Files

Copy the below four files to the root folder of the SD memory card.

Check that no other files are in the SD memory card.

- CW500XXXX.vup (XXXX will vary depending on the firmware version.)
- CW500.mot
- writer.mot
- writer.gui

Note
You may not be able to update the firmware if you copy the files to a folder other than the root folder.

Updating the Firmware

Inserting the SD Memory Card

1. Turn off the CW500 you want to update.

2. Insert the SD memory card containing the update files into the CW500 SD memory card slot. See the Getting Started Guide (IM CW500-02EN) supplied with the CW500.

Updating the Firmware

3. Turn on the CW500 to start it.

   The firmware update tool starts automatically.

4. The screen displays "Press [ENTER] for the update!"

   To update, press **ENTER** on the CW500.

   To cancel, turn off the CW500, and remove the SD memory card.

   Current firmware version
   (x.xx.xxx will vary depending on the version.)

   New firmware version
   (x.xx.xxx will vary depending on the version.)
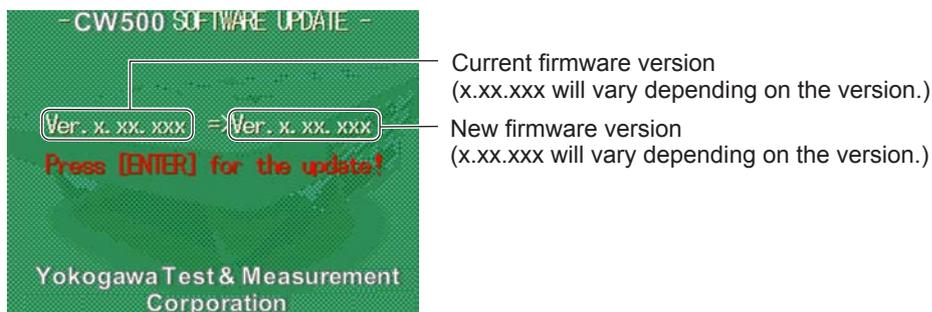
   Firmware updating begins.

   A progress bar shows the update progress. It takes several minutes for updating to complete. Never remove the CW500 power cable or turn off the power while updating is in progress. Doing so may damage the CW500, such as not being able to start.
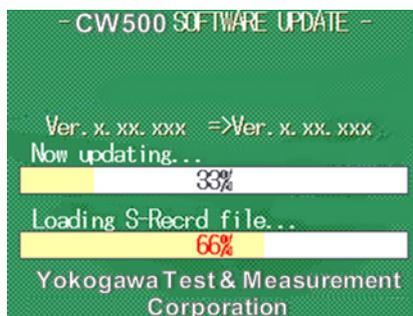
5. When the message "Press [ENTER] for EXIT" appears, press **ENTER** on the CW500.
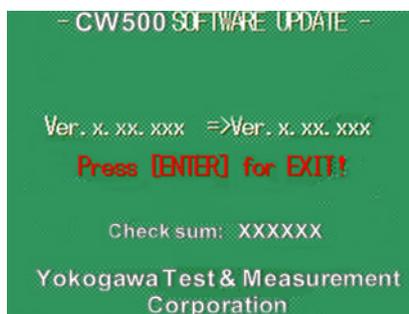
   Firmware updating will finish, and the CW500 will turn off automatically.

6. Remove the SD memory card from the CW500.

Checking the Firmware Version

7. Turn on the CW500. Check that the version displayed on the start screen is the updated version.

Loading Setup Data

8. If necessary, load the setup data that was saved before updating into the CW500.

Firmware Update Failure and Starting Over

The firmware may not have been updated properly in the following cases.
In such a case, start over from "Updating the Firmware."

- The latest version is not displayed when the CW500 is started after updating the firmware.
- The power was turned off (or the power cord was removed) while updating was in progress.
- The SD memory card was removed while updating was in progress.