7-LNX-UP and 7-WIN-UP Removable SSD for 7 Series DPO Performance Oscilloscopes

Upgrade Kit Instructions

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071-3835-01 November 2026

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These are the original instructions in English.

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Service safety summary

The *Service safety summary* section contains additional information required to safely perform service on the product. Only qualified personnel should perform service procedures. Read this *Service safety summary* and the *General safety summary* before performing any service procedures.

To avoid electric shock

Do not touch exposed connections.

Do not service alone

Do not perform internal service or adjustments of this product unless another person capable of rendering first aid and resuscitation is present.

Disconnect power

To avoid electric shock, switch off the product power and disconnect the power cord from the mains power before removing any covers or panels, or opening the case for servicing.

Use care when servicing with power on

Dangerous voltages or currents may exist in this product. Disconnect power, remove battery (if applicable), and disconnect test leads before removing protective panels, soldering, or replacing components.

Verify safety after repair

Always recheck ground continuity and mains dielectric strength after performing a repair.

Kit description

This document supports installing an optional solid state disk drive (SSD) on Tektronix 7 Series DPO instruments. This kit is a collection of parts that, once installed, configure the instrument with a SSD with a closed embedded operating system (standard) or a Microsoft Windows 10 operating system (optional).

Supported products

This kit can be installed in the DPO714AX and DPO718AX Performance Oscilloscopes. You can remove a supported SSD from one instrument and install it on another.

Minimum tool and equipment list

No tools are required to install the SSD.

Kit parts

This kit contains the following parts. One SSD is provided for the OS you selected. Each OS type includes one SDD installed in a tray.

7UP-SSD-tray-front-view.png



Quantity	Part number	Description
1	7-LNX-UP	The SSD installed in bracket. The 7-LNX-UP SSD comes with a closed embedded OS installed.
1	7-WIN-UP	The SSD installed in bracket. The 7-WIN-UP SSD comes with Microsoft Windows 10 installed.
1	071-3835-XX	Upgrade Kit Installation Instructions (this document). Also available online at tek.com.

Data types on SSD compared to base instrument

The SSD holds user data (acquisition data, operating system). All data related to licenses, calibration, and SPC (Signal Path Compensation) are stored in NVM on the instrument backplane board. This enables you to have multiple SSDs for the same instrument.

NOTE: For sanitizing and declassification information and instructions, refer to the **7 Series DPO Performance Oscilloscope Declassification and Security Instructions** on tek.com.

Differentiating WIN and LNX SSDs

The WIN and LNX SDD labels differ as follows:

- The 7-LNX-UP SSD shows **Standard Embedded O/S SSD For 7 Series DPO** on the label beneath the barcode.
- The 7-WIN-UP SSD shows **Windows 10 SSD 7-WIN for 7 Series DPO** beneath the barcode.

If you have multiple SSDs, you can determine which you have by reading the labels.

7-UP-SSD-labels-side-by-side.png



Installation instructions

The installation section covers the following topics:

- Installing the SSD (on page 7)
- Powering on Windows for the first time (on page 8)
- Activating Windows (on page 8)
- Differences between Windows and base instrument user interfaces (on page 9)
- Updating the Windows TekScope application software (on page 9)
- Downloading and installing the latest instrument firmware (on page 10)
- Restoring a Windows SSD (on page 11)

Install the SSD

The optional SSD assembly installs in the rear of the instrument. To remove a previously installed SSD, reverse these steps. Contact your nearest Tektronix, Inc. Service Center or Tektronix Factory Service if you need any installation assistance.

Prerequisite: Wear an anti-static wrist strap connected to the instrument chassis while installing this drive.

WARNING: Personal injury can occur when lifting and moving the instrument. The instrument is heavy. Use a 2 person lift to move the instrument.

1. Remove all cables from the front and rear of the instrument, including the power cord.
2. Locate the removable SSD on the rear panel of the instrument.
3. Unscrew the two thumbscrews on either side of the SSD as shown and slide out the SSD tray.
4. Slide the new SSD tray into the slot and tighten the two thumbscrews to secure the tray in the instrument.



NOTE: After installing a Windows SSD, go to the Power on Windows for the first time (on page 8) and Activate Windows (on page 8) procedures. These procedures do not apply when installing the 7-LNX-UP option.

Powering on Windows for the first time

The instrument goes through a series of configuration boot-ups that require manual intervention when first powering up a new (never-installed) Windows drive in an instrument. Once the drive is configured, the instrument boots into Windows and starts the oscilloscope application each time thereafter.

1. Power on the instrument. The oscilloscope powers up to initialize some settings, then shuts down.
2. Power on the instrument again. The instrument powers up into the application startup screen, then displays a message at the bottom of the screen:

   Updating System Files... This will take a few minutes.

   The oscilloscope will shut down when the update is complete.

   After a few minutes, the instrument powers down.
3. Power on the instrument again. The instrument boots up into Windows and starts the oscilloscope application.

The instrument attempts to activate the Windows license as part of the initial power-on process (See Activating Windows (on page 8)).

Activating Windows

The Windows operating system shipped from Tektronix is in a "deferred activation" state. The first time you turn on an instrument with a newly installed Windows drive, the operating system may attempt to activate itself, depending on whether the instrument is connected to a network or not.

Assess activation behavior

The following information will help you determine if Windows activation is occuring and what action is required, if any.

- The instrument is connected to a network with access to the Microsoft website:
  - The Windows activation occurs silently in the background and does not display any messages. No other action is required.
  - See the Verify Windows Activation section below to check the activation status of the instrument.
- The instrument is connected to a network without access to the Microsoft website:
  - The instrument may attempt to activate and fail. You may see a screen message saying that Windows is not activated and the Windows user settings may be disabled.
  - See the Verify Windows Activation section below to check the activation status of the instrument.
  - You can activate Windows by either connecting the instrument to a network with access to Microsoft or by contacting Microsoft to obtain activation instructions:
    - Go to **https://support.microsoft.com/en-us** and select **Windows.**
    - Go to **https://support.microsoft.com/en-us/contactus/** and follow the instructions to select your preferred contact method.

    NOTE: Please contact Microsoft to resolve Windows activation issues.
- The instrument is not connected to any network:

  - The instrument stays in the "deferred activation" state. No error message appears. Windows, and the oscilloscope application, can operate indefinitely in the deferred activation state without error messages.
  - See the Verify Windows Activation section below to check the activation status of the instrument.
  - Once you connect the instrument to a network with access to Microsoft, Windows will activate automatically (no interaction required).
- Moving an activated Windows SSD from one instrument to another:
  - Windows should remain activated. To verify activation, see the Verify Windows Activation section below. If Windows lost activation when installed on the current instrument, follow the above instructions to reactivate.

Verify Windows activation

To check that Windows is activated:

1. Tap **Start** on the Windows task bar.
2. Scroll down and tap **Settings**.
3. Tap **Update & Security**.
4. Tap **Activation** (left side list) to display the activation status.

Windows update

Automatic Windows update is disabled by default.

Differences between Windows and base instrument user interfaces

The Windows-based oscilloscope application interface appearance and behavior is exactly the same as the base instrument, with these exceptions:

- You can change the size of the Windows-based oscilloscope application, or minimize it, just like any other Windows application.
- You can use the standard Windows network tools to mount and access network drives.
- You can use the standard Windows tools to create a login password to access the instrument, if required by your organization.
- You can use the Application menu to access installed applications.

Updating the Windows TekScope application software

The Windows TekScope application does not automatically update when newer versions are released. You will need to manually download and install the newer software. The oscilloscope application cannot be running when installing the software.

To update the Windows TekScope version of the oscilloscope application software:

Instrument is connected to a network:

1. Display the Windows desktop and open a browser.
2. Go to tek.com Software Downloads.
3. Enter your model number in the **Enter Product or Product Series Name:** field and click **Go**.
4. Click the **Software** tab (left side of table).
5. Click the link in the description that pertains to your instrument model or series, and select the software that applies for Windows instruments.

6. Check that the listed software is newer than your current installed software before downloading and installing.
7. Follow instructions to download the application file.
8. Click the install instructions link to open the installation instructions.

Instrument is not connected to a network:

Follow the above instructions on a network-connected PC,

1. Open a browser on a network-connected PC or laptop.
2. Do steps 2 through 7 above.
3. Download the installation file to a USB memory device and insert the USB memory device in any USB Host port on the instrument.
4. Open the USB drive location.
5. Double-tap on the installation file to update the application software; follow any on-screen instructions.

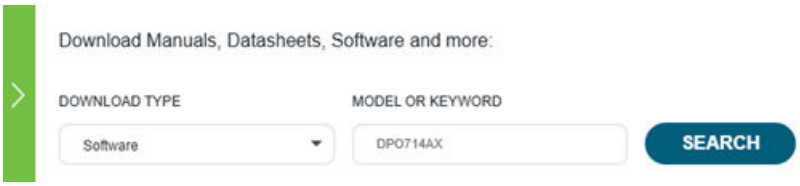
Download and install the latest instrument firmware

Installing the latest firmware helps ensure that your instrument has the latest features and is taking the most accurate measurements.

Prerequisite: Save any important on-instrument files (waveforms, screen captures, setups, and so on) to a USB drive or network. The installation process does not remove user-created files, but it is a good idea to back up important files before an update.

Determine the current version of firmware installed on the instrument (see **Help > About**).

1. Download the instrument firmware and install onto a USB drive:
   a. Open a Web browser on a PC and go to tek.com .
   b. Expand the Download tab on the right side of the homepage.
   c. **7-UP-FW-download-screen.png**



   d. Select Software as the Download Type, enter the instrument model, and click **Search**.
   e. If the listed available firmware version (Windows or non-Windows) is newer than what is on your instrument, select and download that file to your PC.
   f. Follow the installation instructions that are on the website or that came with the downloaded firmware to create the firmware install file.
   g. Copy the firmware install file to a USB flash drive.
2. To install firmware on embedded OS instruments:
   a. Turn on the instrument and wait for the instrument to fully boot up.
   b. Insert the USB flash drive into the instrument USB Host port.
   c. The instrument detects the updated firmware and opens a dialog box. Follow the on-screen instructions to install the firmware.

NOTE: Do not turn off the instrument or remove the USB flash drive until the instrument finishes installing the firmware. The instrument displays a message when it is OK to turn off. Remove the USB drive before turning on the instrument.

3. To install firmware on instruments with the Windows option:
   a. Close the TekScope program before updating the firmware.
   b. Insert the USB flash drive into the instrument USB Host port.
   c. Open the Windows desktop File Explorer and browse to and select the install file.
   d. Run the firmware update file from the USB drive, or copy the firmware update file to the desktop and run the file from there.
   e. Follow any on-screen instructions to install the firmware.
   f. When the firmware install is finished, remove the USB drive and restart the instrument.

   NOTE: Do not turn off the instrument or remove the USB flash drive until the instrument finishes installing the firmware. The instrument displays a message when it is okay to turn off. Remove the USB drive before turning on the instrument.

4. To confirm that the firmware was updated:
   a. Tap **Help > About** in the Menu bar.
   b. Check that the firmware version number listed on the screen is the same version that you downloaded.

Restoring a Windows SSD

When you need to recover your Windows system image backup use the following process to restore your Windows drive.

- Attach a keyboard to the instrument.
- Ensure no USB drives are plugged into the instrument.

The goal of this procedure is to use the AOMEI OneKey Recovery to restore the latest version of your Windows drive.

1. Power off the instrument completely.
2. Power the instrument on.
3. From the **Choose an operating system** menu, select the **Enter into AOMEI OneKey Recovery** option. This menu is only displayed for 5 seconds.
4. Select the **Yes** button when the **Do you need to restore your system** prompt appears.
5. Select the **Start Restore** button to confirm which drive partitions will be overwritten.

   AOMEI Restore begins.
6. When the restore completes select the **Finish** button.
7. Select the **X** is the upper right corner to close the AOMEI application.

   The instrument powers off and automatically restarts.
8. Verify that the instrument restored successfully.