



# **CellAdvisor JD740A Series**

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Firmware Upgrade Guide

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## Notice

Every effort was made to ensure that the information in this guide was accurate at the time of generation. However, information is subject to change without notice.

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## Copyright

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## Purpose and scope

The purpose of this guide is to provide you with instructions that describe how to check your installed firmware, download a latest firmware, and update your instrument with it.

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## Upgrading firmware

It is important that you maintain your CellAdvisor JD740A series (JD745A, JD746A, or JD748A) up to date with its latest firmware to achieve the instrument’s optimal performance. This section of this guide helps you do to so.

### Preparing for firmware upgrade

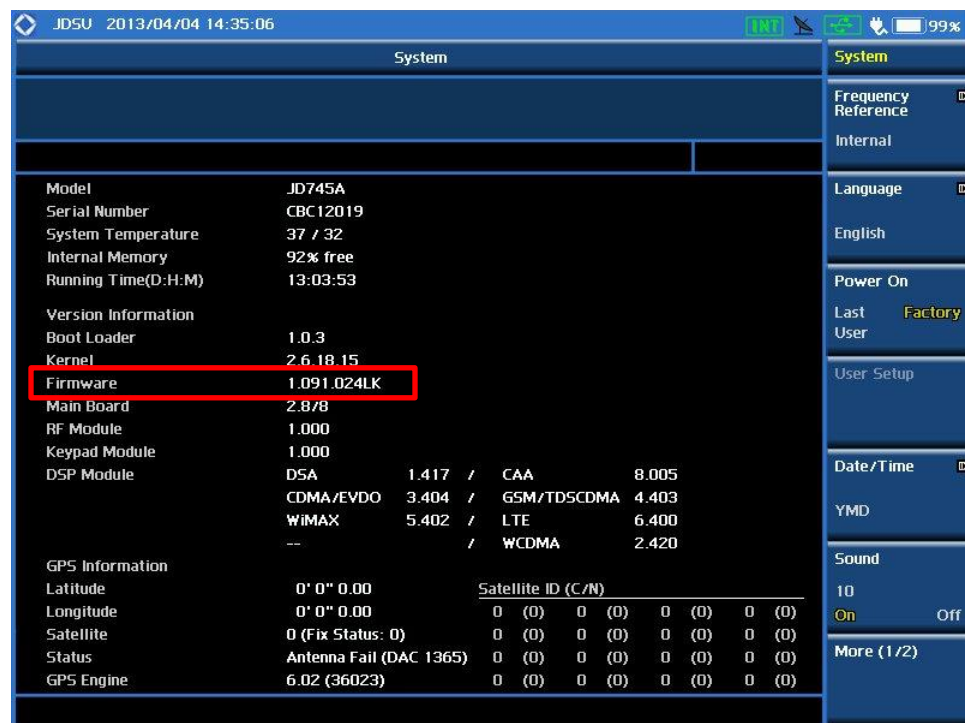
You need to check that your installed firmware is current and download a newer version if available.

#### To check your firmware version

Step 1. Turn on your JD740A series analyzer.

- Step 2. Press the **SYSTEM** hot key.  
The System window appears.
- Step 3. Get your current firmware version number from the System window.  
See Figure 1 for an example, which may differ from what your instrument displays.
- Step 4. On a computer with Internet access, visit [JDSU's Software Updates](#) website and find the latest firmware version available there for JD740A series analyzers.
- Step 5. Compare two version numbers of yours and the one on the website to see if your installed firmware is the latest one. If there is a newer version out there, it is time for you to update your firmware. For more information, go to "To download the latest firmware" on page 3.

**Figure 1**



## To download the latest firmware

- Step 1. Be ready with a USB flash drive or memory stick with free space of 150 Mbytes or more.
- Step 2. Plug in the USB flash drive to a USB port of the computer.
- Step 3. Click the latest firmware zip file on the website and save it to the root directory of the USB flash drive. You can also download it directly to your hard drive.
- Step 4. Unzip the downloaded file into the root directory. Ensure that there are two files extracted in the root directory of the USB flash drive: one firmware file (\*.gen) and one firmware release note (\*.pdf).

**NOTE:** You must have sufficient space (at least **150 Mbytes**) left in the flash drive in order to download the file successfully. Otherwise, you will encounter a warning message. It is recommended that you format the memory drive beforehand.

## Installing new firmware

It is highly recommended that your instrument be properly powered by an external power source for the entire course of the firmware upgrade to prevent any severe damage to your instrument caused by a power-off in the middle of the upgrade, which may require a repair in the factory.

### To install new firmware

- Step 1. Take the flash drive out from your computer, and then plug it into the USB Host port on the top side of your JD740A series analyzer as shown in Figure 2.
- Step 2. Power your instrument via the AC-DC adapter.
- Step 3. Press the **SYSTEM** hot key.
- Step 4. Select **More (1/2) > Upgrade**.  
The file list pane appears. See Figure 3 for an example.

Figure 2



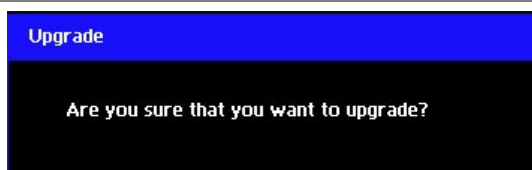
Figure 3

File Name	Size	Date
1095_052LK.gen	15674596	04/04/2013 18:28:04
1092_042LK.gen	15133141	04/04/2013 18:27:56
1091_024LK.gen	15430260	04/04/2013 18:27:50

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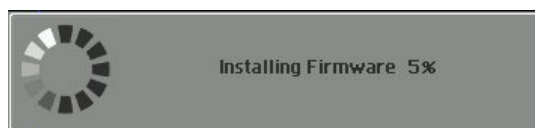
- Step 5. Highlight the new firmware file (.gen) that you have saved in the root directory of your USB flash drive using the up/down arrow keys. You can also use the rotary knob.
- Step 6. Press the **Select** soft key.  
The confirmation dialog box appears as shown in Figure 4.

Figure 4



- Step 7. Do one of the following:
  - Select **No** to cancel the process and exit without upgrading.
  - Select **Yes** to continue upgrading.  
The instrument starts to install the firmware and the progress indicator appears as shown in Figure 5.

**Figure 5**



Step 8. At the completion of the installation, the instrument reboots itself automatically.

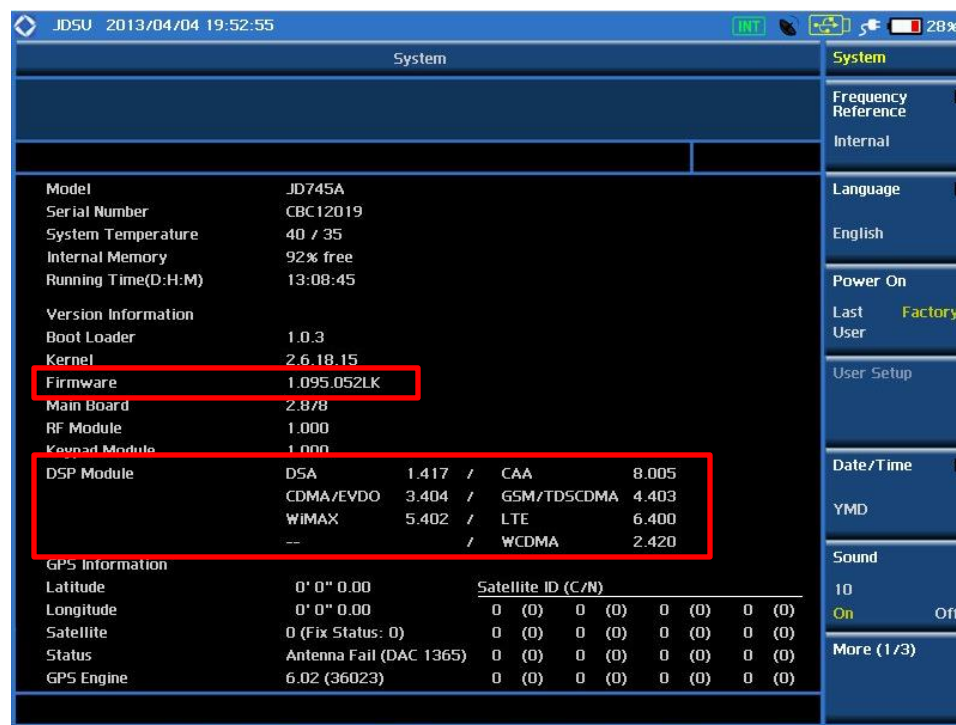
**WARNING:** Do **NOT** remove the USB flash drive from the instrument while installing the firmware. In most cases, the installation will be done within 30 minutes or so although it may take longer than that depending on the number of files to be reconfigured.

### To check newly installed versions

- Step 1. After your JD740A series analyzer restarted, press the **SYSTEM** hot key.
- Step 2. Check that the firmware version and DSP versions have been updated. See Figure 6 for an example, which may differ from what your instrument displays.

**NOTE:** Refer to the firmware release note to find out correct DSP version and compatible application software versions.

**Figure 6**



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## Technical assistance

If you need assistance or have questions related to firmware upgrade, call or e-mail JDSU's Technical Assistance Center (TAC) in your region. For the latest TAC information, go to [www.jdsu.com](http://www.jdsu.com) or contact your local sales office for assistance.

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## Frequently asked questions

### Q1: The CellAdvisor could not recognize my USB memory stick. What should I do?

The CellAdvisor supports all of the file format types with certain limitation in size as listed in the table below depending on the types. You need to select one of these to get it recognized by your instrument.

File Format Type	Maximum USB Size	Remarks
FAT	2 GB	Use the standard accessory provided by JDSU
FAT32	32 GB	Use the standard accessory provided by JDSU
NTFS	Not Available	

### Q2: The CellAdvisor cannot display a firmware file stored in my USB memory stick. What should I do?

The firmware file must be saved or copied in the root directory of the USB flash drive or memory stick. Otherwise, the CellAdvisor cannot recognize a firmware file correctly. You should double check if you have done so. If not, you need to move the file to the root directory of the memory stick.

### Q3: Do I have to format my USB flash drive, which I want to use for firmware upgrade?

No. You do not have to if your USB flash drive has at least 150 Mbytes space available, but we recommend that you format the USB memory stick beforehand. During firmware upgrade, the CellAdvisor uses the USB flash drive as its temporary storage for the source files requiring up to 150 Mbytes. In addition, if there is any error in the USB file system, it may cause a problem. Using a USB memory stick that is used only for firmware upgrade can reduce the possibility of having a problem during firmware upgrade.

### Q4: When do I need the emergency recovery process?

Your CellAdvisor may fail to restart after firmware upgrade due to an unexpected error in the newly installed firmware. It is when you need to try the emergency recovery process. To download source files for recovery, click the following link:

<http://www.jdsu.com/en-us/Test-and-Measurement/support/Software-Updates/Pages/sw-updates.aspx#B>