Firmware Update Instructions
Keysight EL30000 Series

Prerequisite Information
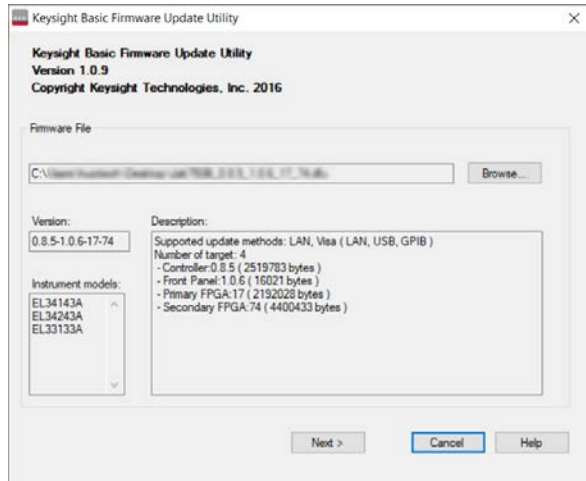
NOTE	For a Windows XP system, the Basic Firmware Update Utility requires Windows XP Service Pack 3 and above.

1. On the instrument, press **Utilities** > **Test / Setup** > **Help** > **About** to determine the firmware version currently installed.
2. Download the latest firmware version for your instrument from www.keysight.com/find/el30000. If there is a newer firmware version available, download it to your PC. Otherwise, no firmware update is necessary.
3. Install the *Keysight Basic Firmware Update Utility* on your PC.
4. Retrieve and record the I/O interface connectivity information from the instrument by navigating to **Utilities** > **I/O Config**.
5. Download and install the *Keysight IO Library Suite* from http://www.keysight.com/find/iosuite if it has not been installed on your PC.
6. For firmware recovery:
    a. Go to the C:\Program Files (x86)\Keysight\BasicFirmwareUpdate\Driver folder to install the USB driver. Choose the Win7 folder if you are running Windows 7 or choose the Win8 folder if you are running Windows 8.
    b. Go to the x64 folder and install the dpinst_amd64.exe file (for 64-bit PC) or go the x86 folder and install the dpinst_x86.exe file (for 32-bit PC).
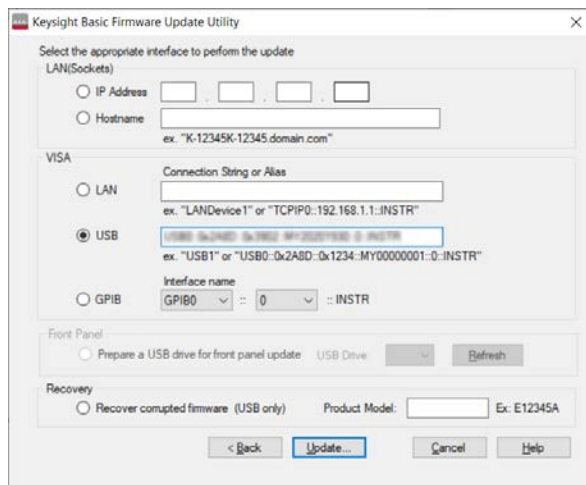
> **CAUTION** Do not turn off the instrument during the update.

1. Unzip the downloaded firmware file to obtain the dfu file:
   a. For EL33133A model: EL33xxxA_N_N_N_xx_N_N_N_xxxx_N_NN.dfu file
   b. For EL34143A and EL34243A models: EL34xxxA_N_N_N_xx_N_N_N_xxxx_N_NN.dfu file
2. Run the Keysight Basic Firmware Update Utility and click **Browse** to locate the .dfu file.
3. Select the firmware file and click **Open**.
4. Click **Next**.

5. Select the I/O interface (LAN, USB, or GPIB) that connects the instrument to your PC.
6. Enter the settings necessary for communication (IP address or hostname, USB ID, or GPIB address).

7. Click **Update...**. Verify the instrument firmware information and the version you are updating.
8. If the information is accurate, click **Begin Update** to start the firmware update.
9. Once the firmware update is complete, the instrument will automatically reboot.

> **NOTE** Click **Update another instrument** if you would like to update another instrument with the same firmware file.
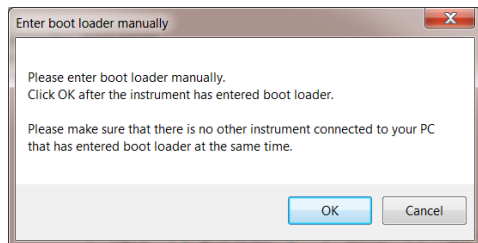
NOTE The **Recover corrupted firmware (USB only)** option should only be selected if the firmware of the instrument is corrupted. When this happens, your PC will no longer be able to communicate with the instrument through USB, LAN, or GPIB connection.

Make sure there is only one instrument connected to your PC when performing firmware recovery.

1. If the firmware update was interrupted midway or unsuccessful, click **Restart Firmware Update** to retry again.
2. If that fails, select the **Recover corrupted firmware (USB only)** option from the Keysight Basic Firmware Update Utility and enter the product model.
3. Click **Update...**, review the firmware information, and then click **Begin Update**.
4. You will be prompted to enter the instrument's boot loader manually.

5. Power off the instrument.
6. To enter the boot loader for your instrument, press **[Meter View]** and **[List Run/Stop]** on the instrument simultaneously while powering on the instrument.
7. Once the instrument has entered boot loader, click **OK** to start the firmware recovery.

KEYSIGHT
TECHNOLOGIES

www.keysight.com