U8903A Audio Analyzer Firmware Upgrade Process

Version 3

Date: 16 March 2012

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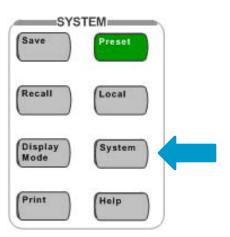
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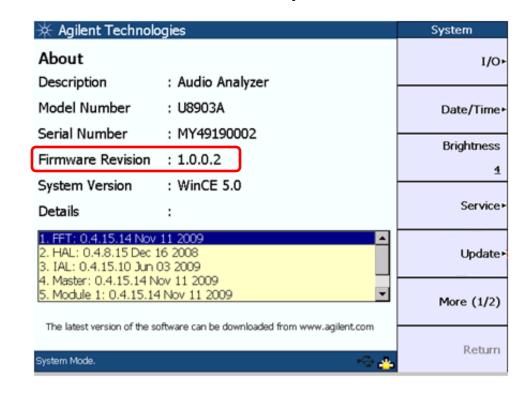
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A: Firmware Revision Verification

1. Press the System button from SYSTEM panel at the front

panel.





B: Obtaining the firmware

- 1. Obtain the Audio Analyzer firmware from the URL below: www.agilent.com/find/audioanalyzer_firmware
- 2. Save the file to your USB Flash memory device.



3. Insert the USB Flash memory device to the front panel USB port. Make sure the device is inserted all time during the upgrade process, unless is instructed otherwise.

Note:

For firmware revisions 2.2.8.0 and above, please proceed to <u>Section D.</u>

For other revisions, please start from <u>Section C.</u>

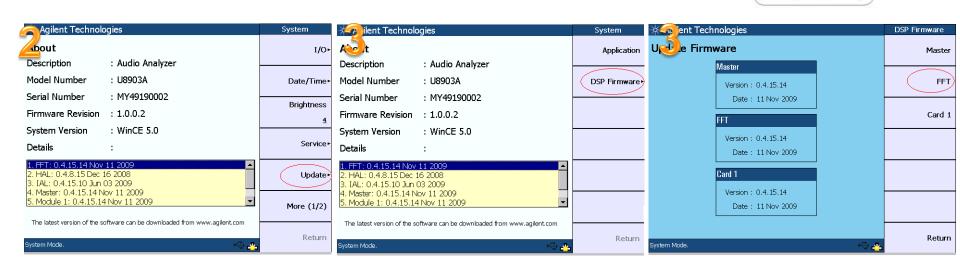
C: Firmware Update Procedure

(For Firmware Revision below 2.2.8.0)

C-1: Firmware Update Procedure (DSP)

1. Press the System button from SYSTEM panel at the front panel.

- 2. At the System mode page, select "Update".
- 3. Select "DSP Firmware" then select "FFT".



SYSTEM

Local

System

Help

Save

Recall

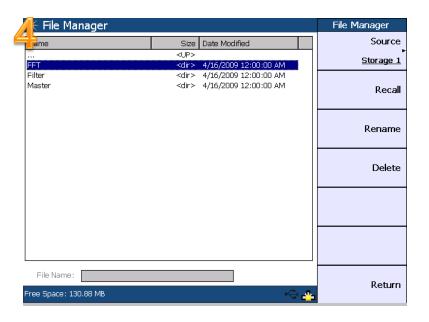
Display

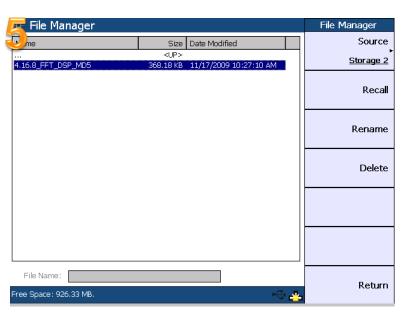
Mode

Print

C-1: Firmware Update Procedure (DSP) cont.

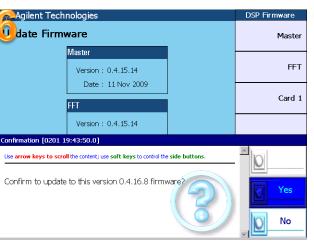
- 4. The File Manager will pops up to allow the user to search for the update files. Locate FFT folder and press Enter.
- 5. Select the X.XX.X_FFT_DSP_MD5 file and press Enter.

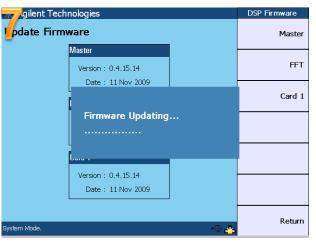


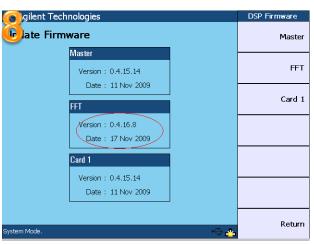


C-1: Firmware Update Procedure (DSP) cont.

- 6. A Confirmation box will pops out. Select Yes by pressing the Enter button to begin upgrade process.
- 7. Then the updating process will start.
- Once completed, the FFT version will reflect the latest version number

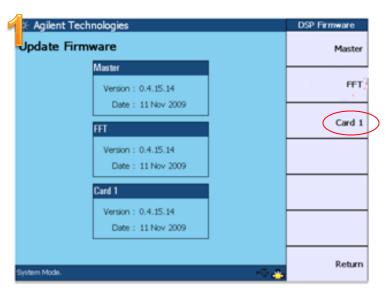


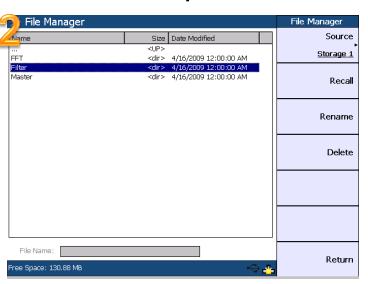




C-2: Firmware Update Procedure (Filter)

- 1. From the System mode page, select "Update" to reach the DSP Firmware page, select "Card 1".
- 2. The File Manager will pops up to allow the user to search for the update files. Locate Filter folder and press Enter.
- 3. Select the X.XX.X_Filter_DSP_MD5 file and press Enter.



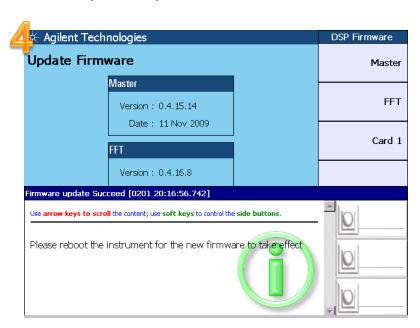


C-2: Firmware Update Procedure (Filter) cont.

4. Once update is completed, the system will prompt you to reboot.

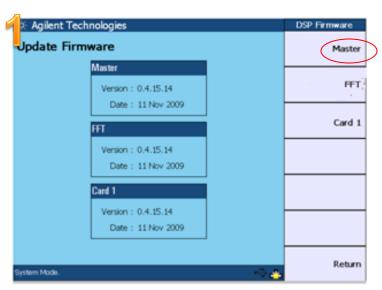
CAUTION

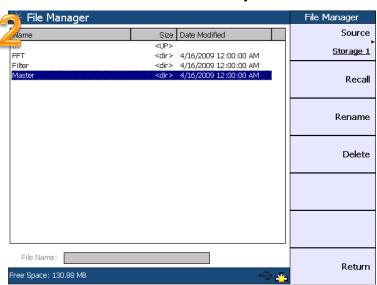
At this point, please remove the USB flash memory device before reboot.



C-3: Firmware Update Procedure (Master)

- 1. From the System mode page, select "Update" to reach the DSP Firmware page, select "Master".
- 2. The File Manager will pops up to allow the user to search for the update files. Locate Master folder and press Enter.
- 3. Select the Master_DSP_X.X.XX.X_MD5 file and press Enter.



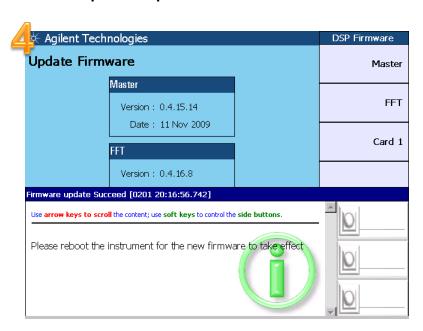


C-3: Firmware Update Procedure (Master) cont.

4. Once update is completed, the system will prompt you to reboot.

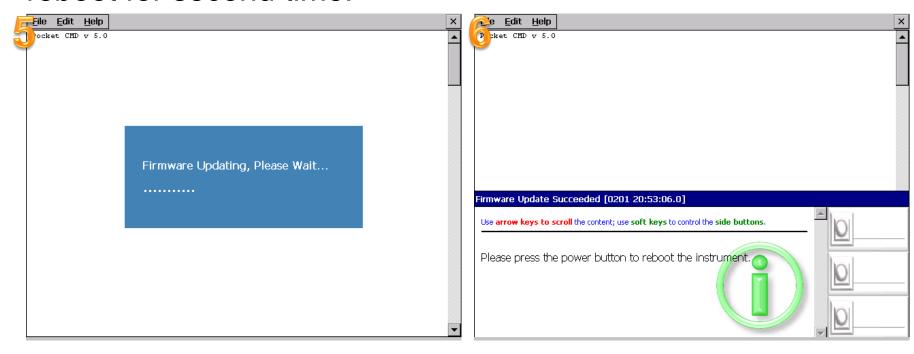
CAUTION

At this point, please remove the USB flash memory device before reboot.



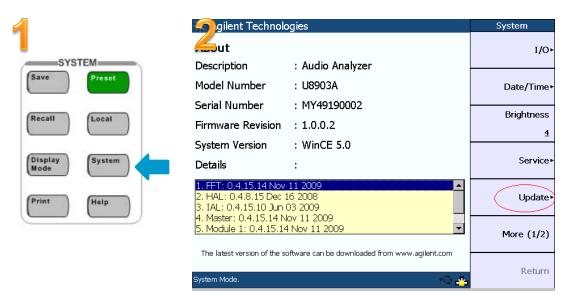
C-3: Firmware Update Procedure (Master) cont.

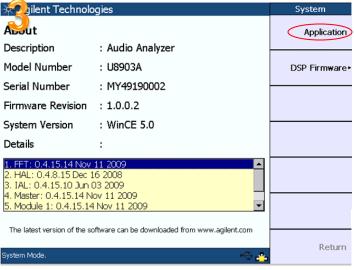
- 5. Once the equipment is switch ON, the equipment will continue to update the Firmware.
- Once finished, a message box will pops up to request for reboot for second time.



C-4: Firmware Update Procedure (GUI)

- Press the System button from SYSTEM panel at the front panel.
- 2. At the System mode page, select "Update".
- 3. Select "Application".





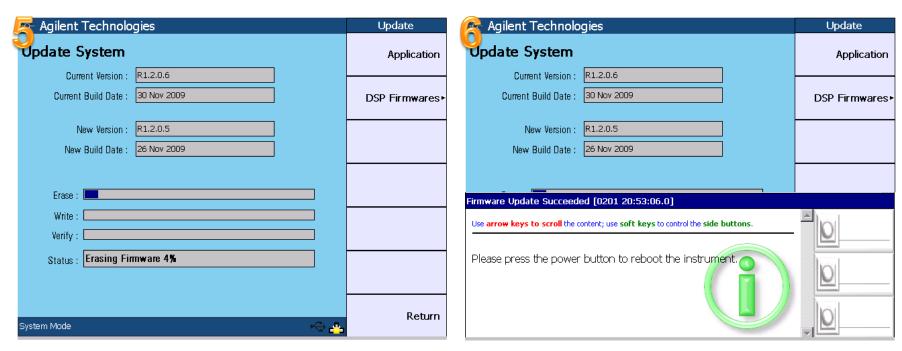
C-4: Firmware Update Procedure (GUI) cont.

4. A confirmation message pops up. Select "Yes". Then press Enter button.

4	Agilent Technolo	ogies	Update
	Update System		Application
	Current Version :	R1.2.0.6	
	Current Build Date :	30 Nov 2009	DSP Firmware
	New Version :	R1.2.0.5	
	New Build Date :	26 Nov 2009	
	Confirmation [0201 20:58	:05.242]	
		content; use soft keys to control the side buttons.	
	NK_R1.2.0.5 is found. firmw <i>a</i> re?	Yes	
		0	No No

C-4: Firmware Update Procedure (GUI) cont.

- 5. After select "Yes", the equipment will begin updating the GUI.
- Once completed, a message will pops up and request for reboot.



You have successfully upgrade the new firmware!



D: Firmware Update Procedure

(For Firmware Revision 2.2.8.0 and above)

D: Firmware Update Procedure Cont. Firmware Revision 2.2.8.0 and above

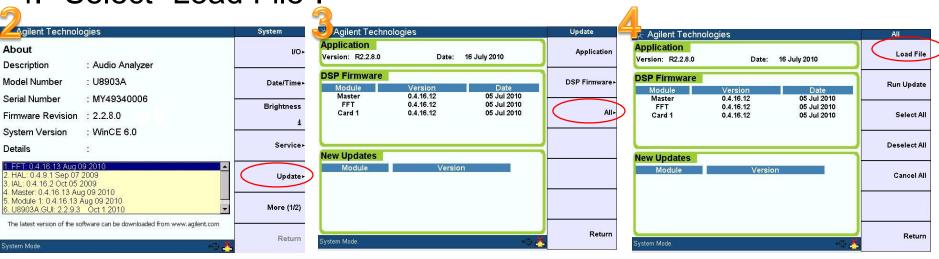
1. Press the System button from SYSTEM panel at the front Preset

panel.

2. At the System mode page, select "Update".

3. Select "All".

4. Select "Load File"



Recall

Display

Mode

Print

Local

System

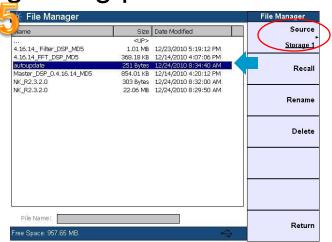
Help

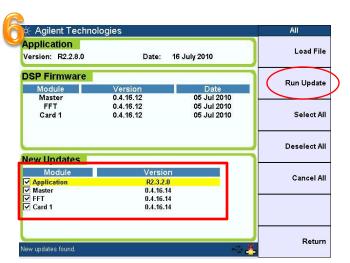
D: Firmware Update Procedure Cont. Firmware Revision 2.2.8.0 and above

5. The File Manager will pops up to allow the user to search for the update files. Locate the autoupdate file and press Enter. Make sure that the "Source" is indicating the correct path to the USB Flash memory device.

6. All the new update files will be listed under the "New Updates" section. Select "Run Update" to start the

upgrading process.





D: Firmware Update Procedure Cont. Firmware Revision 2.2.8.0 and above

- 7. A confirmation message pops up. Select "Yes". Then press Enter button.
- 8. After select "Yes", the equipment will begin updating the firmware.
- 9. Once completed, a message will pops up and request for reboot and the unit will continue to update the master DSP firmware. Reboot the unit again once prompted.

You have successfully upgraded to the new firmware!

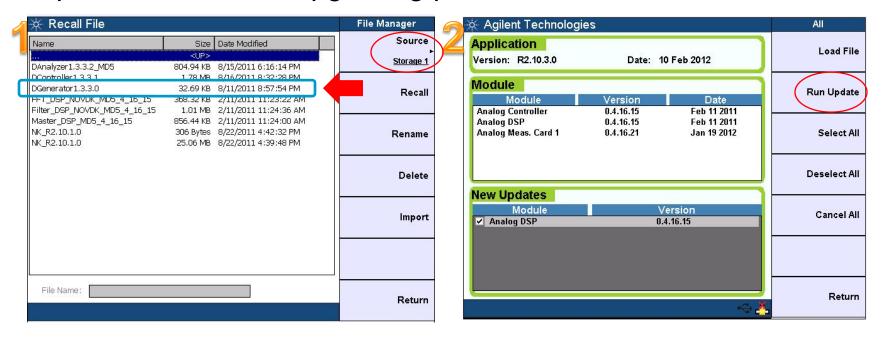
D: Firmware Update Procedure Cont. Firmware Revision 2.10.1.0 ONLY

- The autoupdate file is not available under firmware revision 2.10.1.0.
- 2. The following files needs to individually installed in order to complete the firmware upgrade.
 - a) FFT_DSP_NOVDK_MD5_4_16_15.ldr
 - b) Filter_DSP_NOVDK_MD5_4_16_15.ldr
 - c) Master_DSP_MD5_4_16_15.ldr
 - d) NK_R2.10.1.0.jel
 - e) DAnalyzer1.3.3.2_MD5.ldr
 - f) DController1.3.3.1.bin
 - g) DGenerator1.3.3.0.bin



D: Firmware Update Procedure Cont. Firmware Revision 2.10.1.0 ONLY

3. Select the required firmware file individually and then click "Run Update" to start the upgrading process.



4. Repeat step 3. until all the files listed in step 2. fully updated.

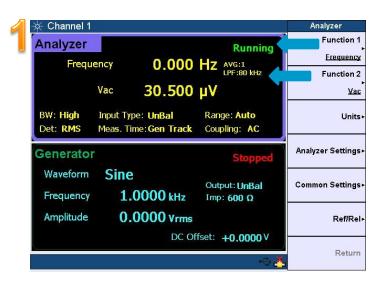
You have successfully upgraded to the new firmware!

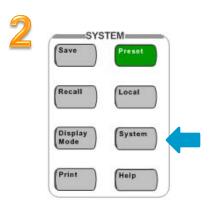


E: HP 8903B Emulator Mode Verification

The latest firmware 2.3.2.0 has the HP 8903B code emulator pre-installed and turned on. To verify this, follow the below steps:

- When the HP 8903B emulator is turned on, the Analyzer is in running mode by default with the Low Pass Filter of 80 KHz selected.
- 2. To further verify this, press the System button from SYSTEM panel at the front panel.





E: HP 8903B Emulator Mode Verification cont.

- 3. At the System mode page, select "More (1/2)".
- 4. Select "HP8903B Config".
- 5. Make sure that the screen is showing "On" under "Mode"

