AJA FS4 Release Notes - v3.1

Firmware for FS4

Introduction

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FS4 v3.1 firmware is a feature and maintenance release adding a Motion Adaptive Deinterlacing control and several other improvements. This firmware update is highly recommended for all FS4 users.

Be sure to consult the Installation and Operation Guide (user manual) for detailed information about features and configuration guidelines. The most current documentation can always be found on FS4's Support Page.

New Features in v3.1

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- New Motion Adaptive Deinterlacer control called "Deinterlacer".
    a. Some interlaced video with fast motion can exhibit video artifacts.
    b. Reducing the amount of motion adaptation can result in better video.
    c. The Motion Adaptive Deinterlacer can now be set to Max, Min, or Off and is "Max" by default.
    d. "Max" has been the default setting for the FS-HDR in all previous releases.
- New Channel to Channel HFR Sync control, called "Ch to Ch HFR Sync".
    a. First introduced in v2.0, it was set as the default and was not user configurable.
    b. In certain situations, this feature caused the frame sync to not lock to the input signal.
    c. The feature can now be turned On or Off and is "Off" by default.

Fixes, Changes and Improvements in v3.1

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- Fixes issue when delaying video more than 15 frames in 4K/UHD Single Channel Mode.
- Fixes issue where embedded audio ch 1-8 output timing was 1 sample different from ch 9-16.
- Fixes issue when embedded audio delay changed on SDI 1 does not match on SDI 5.

Updating FS4 Firmware

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Although the FS4 comes from the factory pre-installed with the latest firmware as of the time of manufacture, it may be necessary to re-flash the factory firmware or update to new firmware that has been posted on our AJA website. The following topics in these notes describe the steps required to upgrade the firmware in your AJA FS4.

Download the Latest Firmware:
- Current and past releases of FS4 firmware are available on AJA's website.
  - To get the firmware, point your browser to: https://www.aja.com/en/products/fs4#support.
- Once you see the update page, FS4 firmware files can be selected for downloading to your Mac or PC for upgrading your local machine.

Unpacking the Firmware

The firmware update files are "ZIP" files, which you can open with a number of standard and third party uncompressor applications. The firmware image that you'll install on the FS4 is a file with a name like FS4_ver_1.0.0.0.bin or similar. Depending on your Mac or Windows operating system settings, the ".bin" extension may not be visible to you in a file directory.

Uploading and Installing the Firmware to the FS4:

Uploading and installing the firmware update only requires a Mac or Windows computer that can "see" the FS4 via its Ethernet connection. Follow this procedure to install the firmware:

1. Point your browser at the FS4's upgrade page by clicking on the "Firmware" menu link at the bottom of the navigation box on the left-hand side of any FS4 web page. The FS4 web pages are discussed in the FS4 User Manual.
2. Click the "Browse..." button to select the file you previously downloaded.
3. After you have selected a valid FS4 image file, click the "OK" button in the "Upload Firmware" prompt. The file you select will upload to the FS4 and be tested for validity. Incomplete, corrupted, or non-FS4 firmware files are rejected.
4. Click "Commit Uploaded Firmware" on the FS4 Update Firmware web page after the upload is finished.
5. Wait for the procedure to complete. When done, the FS4 Update Firmware web page will prompt you to restart your FS4. Click the "Restart FS4 with New Firmware" button to begin the restart. Restart progress is shown on the front panel of the FS4 only. After the restart completes, the FS4 front panel "Status" menu is displayed, and the FS4 will be running the new firmware.
6. Once these steps are complete, the FS4 will be running the firmware you just uploaded until the next time you upgrade it. The configuration of the FS4 prior to the upgrade will be preserved. Ensure the new firmware is running by bringing up the FS4 web page again; the firmware version is displayed at the top

of all FS4 web screens. If for some rare reason it didn't update, you can then run through the update steps again.

Important Note: If there is a power outage or glitch during the firmware download, the FS4 will boot the older version and the upgrade process can then be re-started by the user. This happens because the FS4 has been designed with a safety feature where an internal "safe" copy of the previous firmware is retained in the event of any error in the updating.

Technical Support

AJA Technical Support is free and available to help you answer questions or resolve issues with any of your AJA products.

To contact AJA Technical Support:

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