

# AJA FS2 Release Notes

## v2.1.0.13

### In this Release

---

This release is recommended for all FS2 users. It adds improvements to the general operation and fixes issues present in the earlier release version v2.0.0.26.

### New Features

---

#### **PAL-M**

This firmware update introduces the ability to use PAL-M and applies to both the INPUT and the OUTPUT. There is no conversion from NTSC to PAL-M or PAL-M to NTSC.

PAL-M is enabled from the front panel by pushing the "System" button, menu setting 9-"Frame Rates". Using the "Adjust" knob, set the "Frame Rates" option to "59.94/29.97".

Next use the "Select" knob and turn to menu setting 10-"NTSC Standard", to "PAL-M". Just like with NTSC Japan, the PAL-M setting persists when System 9 "Frame Rates" is set to some other setting, (50/25 or 60/30), but has no effect. There is no PAL-M support for 50/25 or 60/30.

#### **Preset Naming On front panel**

It is now possible to recall, store or edit the preset names from the front panel menu.

### Improvements

---

- Fixed an intermittent problem with embedded audio out: Audio Processor 2 may select the wrong Audio Input (especially after power cycle). For example, sometimes Audio Proc 2 will use "Embed Audio 1" as its audio source, even though "Embed Audio 2" is selected.
- With previous firmware versions, Preset Recall could result in some parameter values getting recalled incorrectly (particular if Audio Follow Video was in use).
- Recalling old Presets (created with previous versions of firmware) could give surprising results. New parameters (existing only in the new firmware) were unaffected by the preset recall, and could thus be left in a state which interferes with the intended Preset. New parameters are now set to Factory Default values when a Preset is recalled, if they are not present in the Preset file.
- Recalling Factory Preset does not disable Authentication.
- Fixed sporadic errors in SDI video output formatting.
- Fixed Green Vertical Line with non-standard VESA Input Video on HDMI.
- Fixed FS2 composite output not locking to input reference color phase.

- Turning AFV “Off” restores audio delay.
- Fixed sporadic errors in video output formatting.
- Web browser “Remote” menu now active
- Changing Screen Saver on WebUI now changes the Front Panel menu as well.

## Installing the Latest Firmware

---

Although the FS2 comes pre-installed with firmware from the factory, new firmware updates are posted on the AJA website and will need to be installed on the FS2 to enable the latest features and fixes. The following section describe the steps required to upgrade the firmware in your AJA FS2.

### Download the latest FS2 firmware

Current and past releases of FS2 firmware are available in the support section of the AJA website:

<http://www.aja.com/en/products/fs2/#support>

Download the latest firmware update onto the computer that will be connected to the FS2.

### Unpack the firmware

FS2 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 FS2 is a file with a name like **fs2\_ver\_1.1.0.4.bin** or similar. Depending on your PC or Mac operating system settings, the “.bin” extension may not be visible to you in a file directory.

In the archive there will be a **README.TXT** file. Please open and read the file so you will be aware of any updates or information that did not get in the manual or release notes.

### Uploading and installing the firmware to the FS2

Uploading and installing the firmware update only requires a PC or Mac that can “see” the FS2 via its ethernet connection. For detailed instructions on establishing a connection between your computer and the FS2, refer to the “Network Connection” information beginning on page 45 of the FS2 Installation and Operation Guide.

Follow this procedure to install the firmware:

1. Point your browser at the FS2's upgrade page by clicking on the “Firmware” menu link at the bottom of the navigation box on the left-hand side of any FS2 web page. The FS2 web pages are discussed in the FS2 User Manual.
2. Click the “Browse...” button to select the file you previously downloaded. For example: **fs2\_ver\_1.1.0.4.bin** contained in the zipfile downloaded from AJA.

3. After you have selected a valid FS2 image file, click the “OK” button in the “Upload Firmware” prompt. The file you select will upload to the FS2 and be tested for validity. Incomplete, corrupted, or non-FS2 firmware files are rejected.
4. Click “Commit Uploaded Firmware” on the FS2 Update Firmware web page after the upload is finished.
5. Wait for the procedure to complete—it will take only a few minutes. When done, the FS2 Update Firmware web page will prompt you to restart your FS2. Click the “Restart FS2 with New Firmware” button to begin the restart. Restart progress is shown on the front panel of the FS2 only. After the restart completes, the FS2 front panel “Status” menu is displayed, and the FS2 will be running the new firmware.

**Note:** *Due to a bug in the V1.1 firmware, the status page in the web browser will not initially “connect” to the FS2 after the firmware update. You will need to select another page from the Screen List on the left-hand side of the status page to connect to the FS2 via the web browser.*

6. Once these steps are complete, the FS2 will be running the firmware you just uploaded until the next time you upgrade it. The configuration of the FS2 prior to the upgrade will be preserved. Ensure the new firmware is running by bringing up the FS2 web page again; the firmware version is displayed at the top of all FS2 web screens. If for some rare reason it didn’t update, you can then run through the update steps again.

**Note:** *If there is a power outage or glitch during the firmware download, the FS2 will boot the older version and the upgrade process can then be re-started by the user. This happens because the FS2 has been designed with a safety feature where an internal “safe” copy of the previous firmware is retained in the event the firmware update does not properly complete.*

## Downgrading from v2.0

---

After upgrading to v2.0 or higher, any downgrade to v1.1.0.4 or earlier may cause loss of all user data. (There is an issue in the previous versions that prevents handling the new data correctly.)

Downgrade to 1.1.0.4 may cause loss of almost all user data, including settings for Video 1, Video 2, Audio 1, Audio 2, System, Output, Config, and Remote, along with all Preset names.

Settings for Video 1, Video 2, Audio 1, Audio 2, System, and Output, along with the Preset names, can be preserved by following the Downgrade procedure listed below.

### Recommended downgrade procedure:

If you absolutely must downgrade from 2.0 (or higher) to 1.1.0.4 (or earlier), there are some steps that you can take to minimize the loss of data. This procedure is done by using the webUI for FS2.

#### Backup all Presets and Config data

1. Save the current settings as a Preset.

2. Export All presets. You can re-import this 'presets' file after the downgrade (or subsequent upgrade), to restore the preset names.
3. Make a note of any 'Config' or 'Remote' settings that you'll want to restore - these are not remembered in presets, so you'll need to restore them manually. These settings include IP Config, IP Address, Subnet Mask, Default Gateway, System Name, Alarm Suppression params, SNMP settings, Local/Remote, and GPI assignments.

### **Downgrade the firmware**

Follow the standard firmware update procedure, but use the earlier firmware version. Once the downgrade has completed successfully, proceed to the next step.

### **Restore Presets and Config data**

1. Manually restore the IP Configuration and Remote settings. Manually restore any other Config or Remote settings as necessary.
2. Import All presets
3. Recall the preset which you saved in Step 1.

#### ***About Preset Names:***

You might also want to make a note of all 'Preset' names, before downgrade. However, this manual step is unnecessary if you exported the Presets (Step 2); when you later import the presets, you'll automatically get the names with them.

### **In summary**

All data (except for Preset contents) may be permanently erased after the downgrade. Note that only Preset contents will be preserved. Preset names will be erased, and reset to default names. Please take appropriate preventive measures before downgrading.