

Sony RAW Plug-in for Avid

PLAV-RW1 v2.4 Release Notes

November 2014

1. New Features / Enhancements

The PLAV-RW1 provides support of viewing and editing capability with the new gamma curve(S-Log3) and new color space(S-Gamut3.Cine) in Avid Media Composer products. The plug-in will translate the image into S-Log2/S-Gamut when the metadata shows that the clip was shot in this monitoring environment. Otherwise, the image will be translated into S-Log3/S-Gamut3.Cine. Please select the LUT in Source Settings window accordingly.

The PLAV-RW1 v2.4 is released to provide support for Avid Media Composer v.7.0.4, v8.1, and v.8.2 series.

The following new features are included:

- Support for Avid Media Composer 8.1 and 8.2.
- Support for F65, PMW-F55/F5, NEX-FS700 new log curve and color gamut (S-Log3/S-Gamut3)
- Dynamic Media Folder functionality is supported in Avid Media Composer 7.0.4, 8.1, and 8.2 with the PLAV-RW1 v2.4.
- Support for relinking F5/F55 Raw clips to XAVC or their MPEG2 proxy counterparts.
- Updated white and black reference levels for S-Gamut3.Cine/Slog3
- Updated for compatibility with the NVIDIA 340.52 graphics card driver on Windows.

2. Installation Guide

Install Instructions Windows:

- 1) Prior to installing the PLAV-RW1 v2.4 plug-in the old plug-in must be removed.
- 2) Open the Control Panel and navigate to *Programs and Features*.
- 3) Select *Sony PLAV-RW1*, then select *Uninstall* and follow the instructions.

You are now ready to install v2.4 of the plug-in.

- 4) Place the Sony_PLAV-RW1_v2.40.msi to the local system drive where the Avid product is installed.
- 5) Double click to launch the Setup Wizard.

- 6) After Setup Wizard has opened select *Next*.
- 7) Read the terms of EULA, select *I accept...*, then select *Next*.
- 8) Then, select *Install* to begin the installation process.
- 9) After the installation has completed select *Finish* to close the Setup Wizard.

Install Instructions Mac:

- 1) Prior to installing the PLAV-RW1 v2.4 plug-in the older plug-in version must be removed.
- 2) Navigate to <SYSTEM DRIVE>/Library/Application Support/Avid/AVX2_Plug-ins/AMA
- 3) Delete the MVP_MSP_SonyRaw.avx file
You are now ready to install v2.4 of the plug-in.
- 4) Copy Sony_PLAV-RW1_v2.40.dmg to the local system drive that the Avid product is installed on.
- 5) Launch the rawplugin240mediacomposer.pkg to run the Installer application.
- 6) Select the *Continue* button
- 7) Read the EULA and select *Continue*
- 8) You will be prompted to Agree or Disagree to the EULA. To continue the installation select *Agree*
- 9) At the Destination Select step, select *Install for all users of this computer* and then select *Continue*
- 10) Select *Install* to begin the installation
- 11) Enter the name and password for a user with administrative rights and select *OK*
- 12) After the installation is complete select *Close* to exit the Installer application

Uninstall Instructions Windows:

- 1) Open Windows Control Panel and launch "Programs and Features".
- 2) Select *Sony PLAV-RW1 v2.40* and then select *Uninstall*
- 3) Next, select *Yes* to confirm the removal
- 4) The *Sony PLAV-RW1* plug-in is now removed

Uninstall Instructions Mac:

- 1) Navigate to <SYSTEM DRIVE>/Library/Application Support/Avid/AVX2_Plug-ins/AMA/MVP_MSP_SonyRAW.avx
- 2) Delete the MVP_MSP_SonyRAW.avx file
- 3) Empty the Trash to completely erase the files from the system

Note: Uninstalling/removing the plug-in from the system, Avid Media Composer will no longer be able to utilize the Sony RAW media imported via the AMA Link to File function

3. Sony PLAV-RW1 User Guide

With AMA enabled the ability to link to F65, PMW-F55/F5, and NEX-FS700 RAW MXF files will be available in the Avid application. For more information on AMA refer to the Avid Editing Guide for your specific Avid product.

Plug-in Version Verification

Before using the *Sony PLAV-RW1* plug-in confirm the desired version is installed. To find the version of the plug-in follow the steps below.

- 1) Launch Avid and open a project
- 2) Open the Console from the menu bar by selecting *Tools> Console*
- 3) Enter the following command, *ama_listplugins*
- 4) Locate the plug-in *MVP_MSP_SonyRaw_64bit* and confirm the version is 2.4003

Using the AMA Feature

In order to use the plug-in AMA Volume Management XDCAM Legacy setting must be disabled. Use the following steps to verify the legacy option is disabled.

Enabling AMA

- 1) Select the *Settings* tab in the Project Window
- 2) Select *AMA* to open the settings window
- 3) Within the AMA Settings window select the *Volume Mounting* tab
- 4) Disable the “Enable legacy XDCAM Import (disabled AMA XDCAM)” option if it is not already disabled
- 5) A restart of the application may be necessary for changes made to AMA Volume Management to take effect

Linking to Sony RAW MXF Files

- 1) Select the desired destination bin in the project
- 2) From the menu bar Select *File>AMA Link...*
- 3) From the Files of Type pull down menu select *SonyRaw (*.mxf)*
- 4) Select the Sony RAW MXF file(s) to be linked
- 5) Select *Open*

Link to AMA Volume

- 1) Select the desired destination bin in the project
- 2) From the menu bar Select *File>AMA Link*
- 3) When linking to the SR-D1 or AXS-CR1 devices select the CINEROOT folder of the mounted volume. When linking to a virtual volume, such as when the contents of a media drive has been copied to another storage device while maintaining the folder structure, select the copied "CINEROOT" directory.
- 4) From the *Files of Type* pull down menu select SonyRaw (Folder)
- 5) Select *Open*
 - **Note:** When a device with the AXS Memory structure is connected to the Avid workstation, Avid products will automatically link via AMA to the device and bring in all the clips.

Source Settings

In order to view the Source Settings window, you must right click a clip in a bin and select *Source settings...* There are two tabs in this window; *Color Encoding* and *FrameFlex*. The Color Encoding tab allows you to add and remove LUT tables, which will change the visual look of the image. The Frameflex tab allows you to change the dimension and framing of the image.

Relink proxy to high res

The relink operation will replace the XAVC or MPEG2 proxy files on a timeline with their corresponding Raw files. For the relink to be successful, the raw files must be online and in an open bin. It is important to note the clips in the bin will not be modified by the relink, only the timeline clips in the sequence will be modified. To prevent any changes to the original timeline enable the "Create new sequence" option in the Relink tool. Use the instructions below as a guide for relinking XAVC/MPEG2 clips to raw clips in a timeline.

- 1) Open all bins that contain proxy clips to be relinked
- 2) In each bin, highlight the proxy clips to be relinked
- 3) Now, highlight the sequence
- 4) Right click the sequence to reveal the context menu and then select **Relink**
- 5) Enable the following options: Selected items in ALL open bins, Relink by Timecode: Start, Source Name: Tape Name or Source File ID , match case when comparing tape and source file names, Create new sequence (this prevents modification of the original timeline)
- 6) Select OK to start the relink

Avid Playback Settings

The playback quality in the Avid applications can be configured using the Video Quality Menu in the Timeline window. How the RAW image is displayed depends on the Reformat setting for the clip in the Media Composer bin. When the Avid Video Quality menu is set to Full Quality the full 4K or 2K image is being decoded. At a Draft Avid Video Quality setting a 1K file is being decoded and at a Best Performance option a 1/2K image is decoded.

Supported Operating Systems

Windows

- Windows 8.1 Professional/Enterprise 64-bit
- Windows 8 Professional/Enterprise 64-bit
- Windows 7 Professional 64-bit

Mac

- OS X v10.9.5
- OS X v10.8.4/10.8.5
- OS X v10.7.5 (excluding 10.7.4)

Supported Avid Products

Windows (PC)

- Avid Media Composer 7.0.4
- Avid Media Composer 8.1
- Avid Media Composer 8.2

Mac

- Avid Media Composer 7.0.4
- Avid Media Composer 8.1
- Avid Media Composer 8.2

System Requirements

- Media storage must be able to sustain a data rate of 600 MB/s per stream.
- Windows OS minimum system requirement: Dual 6 core Intel Xeon Core i7 (Nehalem or later) with multithreading enabled at a speed of 2.66GHz or higher with at least 6 GB's of memory installed.
- MAC OS minimum system requirements: Dual 6 core Intel Xeon at a speed of 2.66GHz or higher with at least 6 GB's of memory installed.

- OpenCL supported graphic cards are required. We recommend using the NVIDIA GeForce 400 and 500 Series for Windows OS, and AMD Radeon HD 5000 or 6000 series for Mac OS, or for the MacBook Pro the NVIDIA GeForce GT 650M. Later versions of the NVIDIA graphic cards have not been certified on Mac OS's.
- It is recommended the Video Quality Playback option be set to *Best Performance*.

4. Known Issues and Limitations

- The Source color space parameter of the Source Settings dialog for S-Gamut3.Cine color space clips will display as “unknown gamma [90-582 (10 bits)]”.
- Real-time playback is sustainable with a single video stream of RAW material and 16 channels of audio using Avid's NLE Video Quality Playback setting of Draft and Best Performance for all frame rates except 50p and 60p.
- Real-time playback of video is sustainable with RAW 50p and RAW 59.94p fps, if the audio is disabled in an Avid project of 1280x720 resolution at their corresponding frame rate using Draft or Best Performance Video Quality Playback settings.
- Mac OS version 10.7.4 is not supported for RAW playback in Avid Media Composer.
- Real-time playback of RAW material cannot be achieved without rendering first in Draft or Best Quality mode.
- OpenCL runtime is not recommended and will reduce performance.
- Sony SR-D1/AXS-CR1 devices are not designed for real-time playback in Avid's NLE's.
- Importing RAW files to a 1080i/50, 1080i/60, or 720p/29.97 will show incorrect format information.
- If linking to multiple RAW files at one time and the scroll bar in the AMA Link to file window is moved, it will result in a “File Not Found” error when the clips are linked. To avoid this situation perform a select all with the Ctrl+A keys instead.
- AMA Link sometimes cannot be performed from the SR-D1 device.
- Automatic import of RAW files when connecting a device to the NLE is not possible when the CINEROOT folder does not exist.
- DMF Transcode and normal transcode does not function for RAW files.

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