

# MediaReactor Workstation v8

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User Guide



May 25, 2026

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# 1 Introduction

This manual is for MediaReactor Workstation version 8 software from Drastic Technologies, Ltd.

## 1.1 Conventions

This manual assumes the following:

That the user knows how to operate a mouse and keyboard and perform the basic functions of Microsoft Windows, macOS or Linux operating system.

That the user is familiar with the video editing software in use.

That the user has access to technicians capable of placing the device on the network and setting up any SAN systems if necessary.

The name of a control or display present on the interface will be displayed in **bold** text.

Where a portion of the manual is referred to the name of section mentioned will be displayed in *italics*.

Certain images in this document may have been grayed out where it is useful or necessary to place indicator marks to show specific controls or displays above a darker background.

## 1.2 About MediaReactor Workstation Software

MediaReactor Workstation software provides plugin components to allow various third party applications to access supported file types in real time without a transcoding step. There is also a user directed interface called MR Lite, and there are command line components.

**MediaReactor Workstation** is a direct plugin version of Drastic's MediaReactor file translation system. Rather than having to use a separate translation step, the artist can work with incoming footage directly in their preferred creative software. MediaReactor Workstation is available on Windows 7 or greater, macOS 14 Sonoma - macOS 26 Tahoe, and CentOS/Red Hat 7.4-7.8. It provides plugins for Assimilate SCRATCH/Lab, Final Cut Pro 7/Suite 3, Avid Media Composer, Adobe products, Autodesk Flame/Flare/Lustre, QuickTime and DirectShow. Many other applications that utilize the QuickTime and DirectShow interfaces are also supported.

Contemporary production workflows are able to access an ever increasing choice of acquisition, production, mezzanine and output devices and formats. Unfortunately, the proprietary nature of these media tools often leads to time consuming and potentially lossy translations of content, simply to allow other creative tools to access them.

MediaReactor Workstation was designed to alleviate this problem. MediaReactor Workstation provides access to the widest range of file formats of any single plugin package. It specializes in high quality conversion on the fly, on everything from ancient OMF JPEG to the latest camera acquisition formats from Weisscam, Phantom and ARRI. Coupled with its incredible range of file and codec support, MediaReactor Workstation provides a group of plugins that make the content directly compatible with most major editing and creative software on Mac and Windows systems.

More detailed information on MediaReactor Workstation, including related products and links to demo downloads, can be found on the product page:

[www.mediareactor.ws](http://www.mediareactor.ws)

Streamlined (lite) versions for Adobe, and for Avid, are also available.

If you are editing with Adobe products, MediaReactor Lite for Adobe provides a targeted set of the most commonly requested read and write formats for products such as Premiere, Media Encoder and After Effects. Check the product page:

[MediaReactor Lite for Adobe](#)

If you are editing with Avid products, MediaReactor Lite for Avid provides a targeted set of the most

commonly requested read and write formats for products such as Media Composer, NewsCutter and Symphony. Check the product page:

[MediaReactor Lite for Avid](#)

## 1.3 System Requirements

### 1.3.1 Recommended Environment

MediaReactor Workstation software must be installed on a system at least as powerful as the configurations listed below.

#### **Minimum Hardware Platform**

Post 2000 multi core processor capable of running the host application.

#### **Recommended Hardware Platform**

Recommend hardware from the host application vendor. Multi cores and OpenCL, Cuda and shader GPUs will be used if available, but are not absolutely required.

Demo downloads of MediaReactor Workstation software are available for the user to test their application and to confirm their workflow. Faster and more powerful hardware will provide better performance. In some cases, specific hardware will be required in order to enable resource-intensive, advanced or optional features.

## 1.4 Supported Operating Systems



MediaReactor Workstation provides support for the three major operating systems that have well defined plugin systems (for Linux, please contract Drastic for available options). The primary plugin interfaces on macOS, Windows 32 bit and Windows 64 are:

- Autodesk Flame/Flare/Lustre import
- Assimilate SCRATCH and SCRATCH Lab SPA plugin
- Avid Media Composer AMA access plugin
- Adobe file import and export PRM plugins CS5.5/6.x and Creative Cloud 2014 64 bit
- Adobe file import and export PRM plugins CS4/5 32 bit
- Filmworkz Nucoda
- Final Cut Pro 7/Suite 3 real time access and rendered file export

The Final Cut Pro 7/Suite 3 plugin is macOS specific, but Avid and Adobe are available on both platforms allowing seamless access to content with platform independence. Drastic is dedicated to supporting as many file formats as possible on all three major operating systems and supporting all major production tools that provide a plugin interface.

### 1.4.1 macOS

MediaReactor's primary plugins under macOS are Apple's QuickTime layer and Adobe's import and export plug-ins. MediaReactor Workstation connects to QuickTime at multiple levels. It provides codecs for encoding and decoding video frames, image importers and exporters, movie importers and exporters and low level data handlers. The result is that all QuickTime enabled applications can access media as easily as a native QuickTime movie including still formats like DPX, Cineon, ARI and DNG sequences. This includes metadata, multitrack audio, multitrack video, time code, closed captioning and other tracks. All supported formats, including IPB MPEG transport streams and series of stills (that would normally require conversion) are directly available for editing in Apple, Adobe and many other third party products.

Apple Pro hardware accelerated codec support is available for macOS installs.

Pro Video Formats 3.1 (HW accel h.264/265/Prores)  
<https://support.apple.com/en-ca/106396>

Rosetta 2 (for AVCi-100)  
<https://support.apple.com/en-us/102527>

## 1.4.2 Windows 32

MediaReactor Workstation supports all four primary Windows' audio/video layers, which are: VFW (Video For Windows), DirectX/DirectShow, Apple QuickTime for Windows and Adobe import/export plugins for older Adobe products (CS5+ uses the Windows 64 version). QuickTime is the most standardized platform for media access on 32 bit Windows, and the MediaReactor Workstation connects to QuickTime on multiple levels. It provides codecs for encoding and decoding video frames, image importers, image exporters, movie importers, movie exporters and low level data handlers. The result is that all QuickTime enabled applications can access media as easily as native QuickTime movies including still formats like DPX, Cineon, ARI and DNG sequences. This includes metadata, multitrack audio, multitrack video, time code, closed captioning and other tracks. All supported formats, including IPB MPEG transport streams and series of stills (that would normally require conversion) are directly supported available for editing in Apple, Adobe and many other third party products.

For some applications, DirectShow or VFW provide the easiest or only interface for MediaReactor to file import. DirectShow allows player applications like Windows Media Player to access all the available file formats seamlessly. MediaReactor Workstation 32 also supports Adobe Creative Suite applications that run under 32 bits, including CS4 and earlier.

## 1.4.3 Windows 64

The latest production tools tend to prefer operating as 64 bit applications. MediaReactor Workstation for Windows 64 provides interfaces to these applications. Assimilate SCRATCH and SCRATCH Lab are great examples of powerful programs running on Windows 64. Drastic provides the technology to Assimilate for their CSP plugin, and MediaReactor Workstation takes that interface to a whole new level. Providing a much wider set of file formats and codecs, MediaReactor Workstation allows Assimilate's software to access almost every production file type your workflow could need.

The latest Adobe Creative Suite products, CS5 and CS5.5, are also native 64 bit applications. MediaReactor Workstation provides both import and export plugins for all of Adobe's Creative Suite tools. The plugins provide all the advanced media support and even improve on Adobe formats like MOV and MXF.

The Windows 64 bit version of MediaReactor Workstation license also allows you to install and use the Windows 32 bit version, which is fully compatible and very useful, in Windows 64 (XP, Vista or 7).

## 2 Getting Set Up

### 2.1 Installation

Here is how to install MediaReactor Workstation. Attach a standard keyboard, mouse and VGA monitor to the system. Plug the system in and turn it on.

**IMPORTANT!** Log on as Administrator. If the user name and password entered do not extend Administrator privileges, MediaReactor Workstation will not install properly. If unsure as to what level of privilege the log-on provides, consult a System Administrator.

Confirm that any other programs are closed before starting this installation.

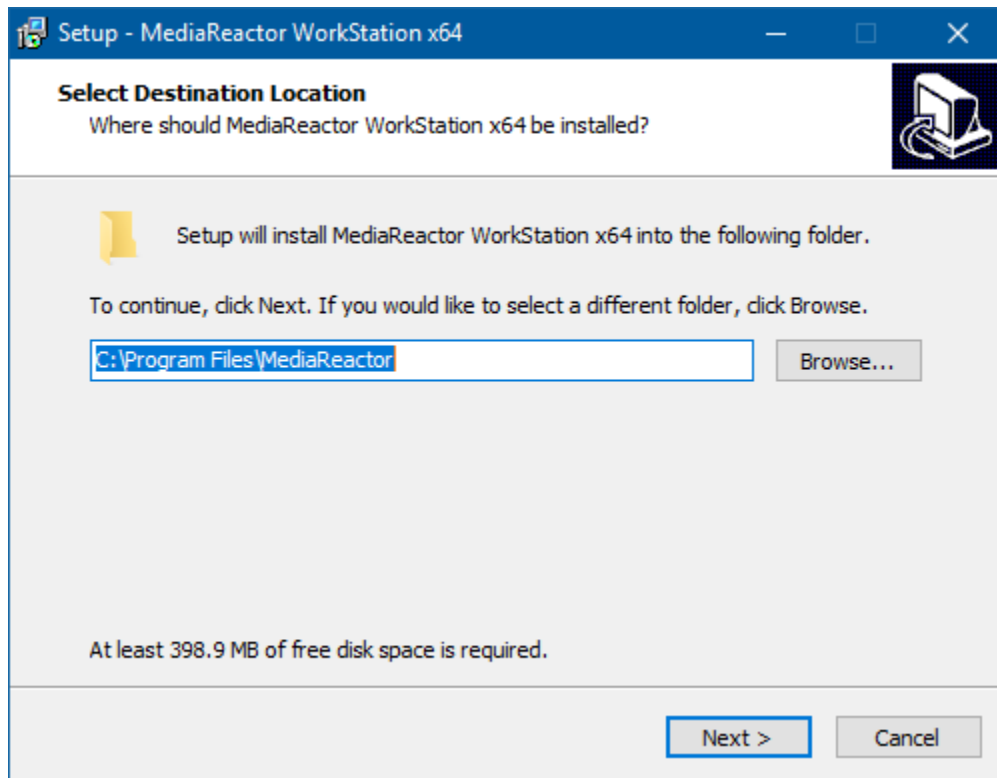
Make sure the system clock is properly set. Open the **Control Panel**, go to **Date/Time**. If the time is reset while running a duration-limited license, it may destroy the license.

#### 2.1.1 Install on Windows

**For Windows:** Double-click or run the executable MediaReactor Workstation installation file.

SetupMRWS\_Win64\_8\_#\_###.exe

Depending on your OS setup, you may need to allow the installer to run. Once you have done this, and selected the installer language, you will see a dialog similar to this:



The user will be prompted to move through each step of the install by pressing the “next” or “finish” button. Carefully read the instructions that are provided.

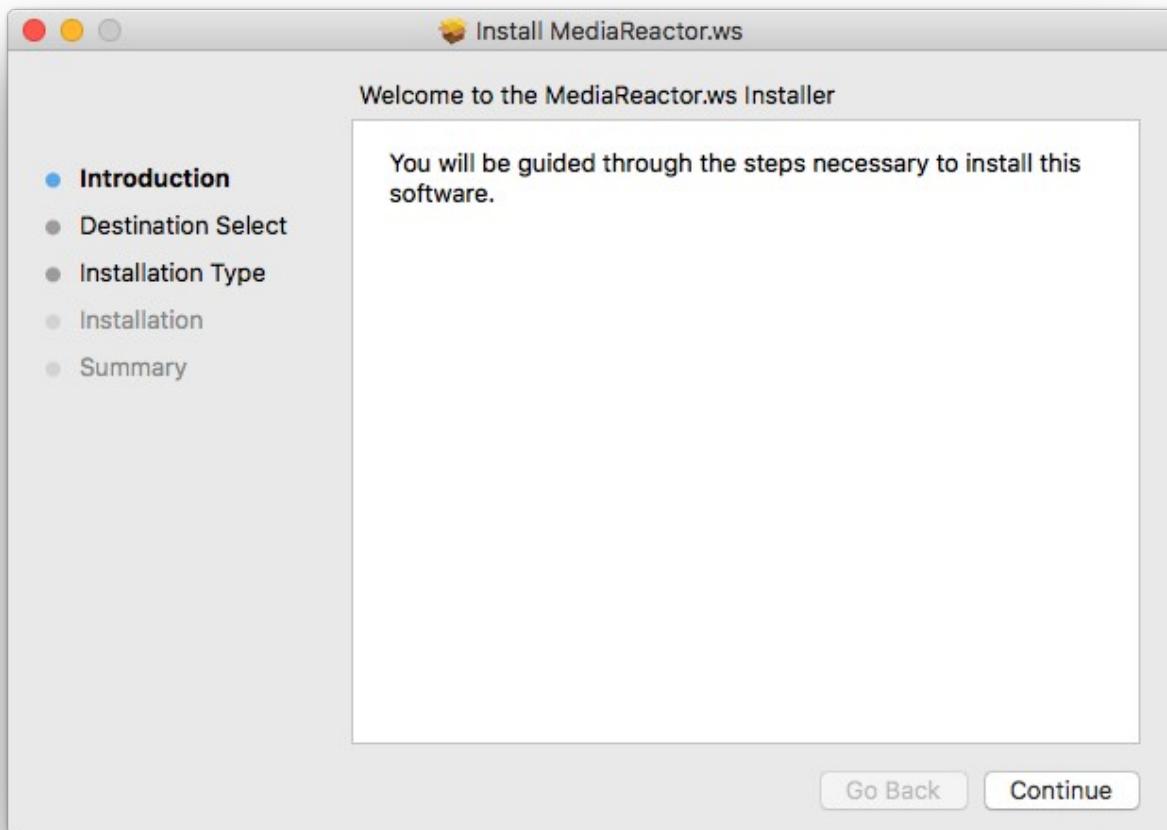
**Note:** When installing on a Windows 64 bit system make sure to install both the 32 bit and 64 bit versions if you are also running 32 bit applications.

## 2.1.2 Install on macOS

For macOS: Double click on the OS-X PKG installer:

SetupMRWS\_MacOS-X\_7\_#\_###

The install dialog should look similar to the below:



Click **Continue** and carefully follow the instructions to install the software.

Upon install completion, MediaReactor Workstation will prompt the user to **Restart**. Agree to **Restart**.

Apple Pro hardware accelerated codec support is available for macOS installs.

Pro Video Formats 3.1 (HW accel h.264/265/Prores)

<https://support.apple.com/en-ca/106396>

Rosetta 2 (for AVCi-100)

<https://support.apple.com/en-us/102527>

## 2.2 Where to find your files

## 2.3 Windows

C:\Program Files\MediaReactor\

C:\ProgramData\Drastic\

Application specific plugin directories

Links to applications are available under the Start menu, MediaReactor folder

## 2.4 macOS

/Applications/MediaReactor/

/Libraries/Frameworks/

DrasticDDR.framework

Intel\_IPP.framework

Application specific plugin directories

## 2.5 Linux

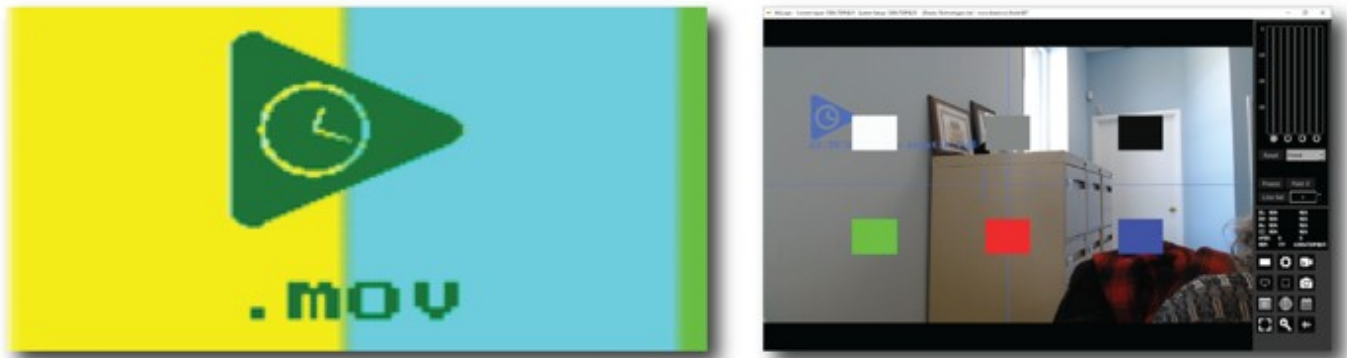
/opt/mediareactor/

Application specific plugin directories

## 2.6 License the Software

### 2.6.1 How Do I Remove the Watermarks?

If you run Drastic software without a license, many of the features will be unavailable. Also, there will be watermarks you cannot remove (image below), 10 second media duration, length of run limitations, no hardware support, nag screen, auto-shutoff, and other significant limitations. To remove these limitations, you will need a valid license.

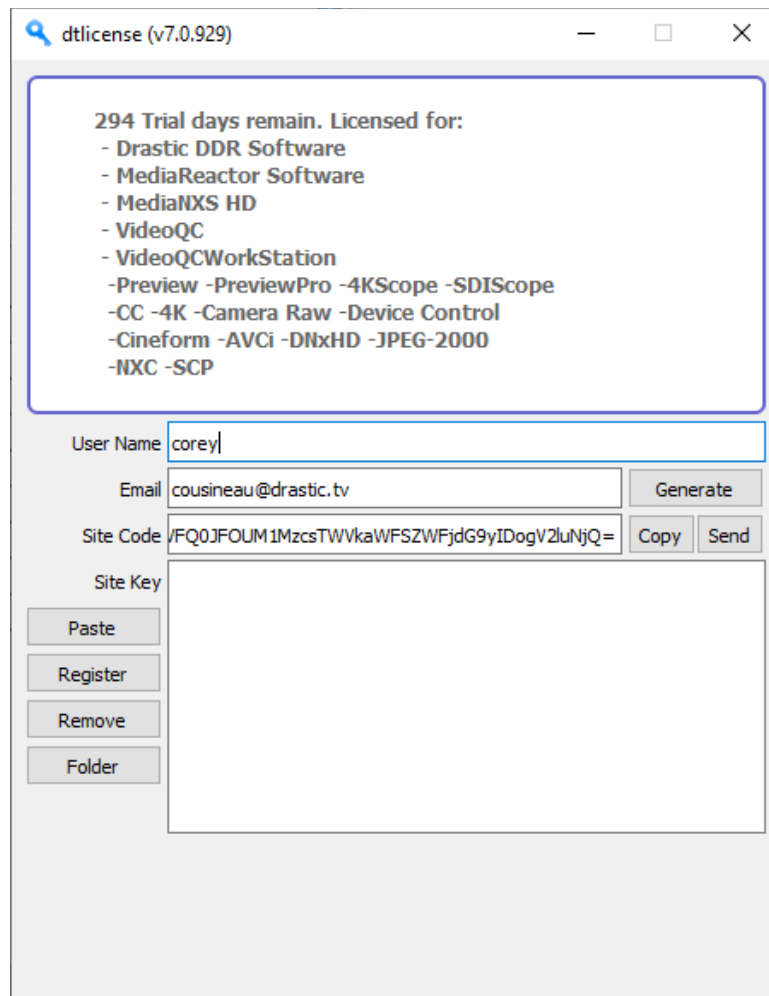


*Sample watermarks*

Here is how to license your installation of MediaReactor Workstation:

## 2.6.2 Licensing for Windows

**MediaReactor Workstation** installs an application called **dtlicense**, which is included in the program folder. This may be accessed (in Windows installs) via the Start menu, Program Files|<Drastic Software>|dtlicense). Run dtlicense and you will see the following interface:



*dtlicense with a trial license*

- Type the user name into the **User Name** field.
- Type a valid email address into the **User Email** field. This is the email address at which the user will receive the required site key, so make sure it can be accessed by the operator of the system upon which the Drastic software is installed.
- Press the **Generate** button. This will populate the **Site Code** field with the site code. The site code is a seemingly random string of alphanumeric characters which will be used to generate the site key.

- If the system is set up with email, the user may press the **Send** button. This opens a new email addressed to Drastic with the site code in the body of the email. If the system is not set up with email, the user may copy (either select the site code and use a standard Copy command, or press the **Copy** button which is just to the right of the **Site Code** field) and paste (use a standard Paste command) the site code into a text file, and open the text file in a system that is set up with email. In this case, create a new email addressed to [authorization@drastictech.com](mailto:authorization@drastictech.com) . it would be useful to type a quick explanation regarding which software is to be licensed, and the reason for the license request (such as demo, update license, add software etc.). Send the email.
- We will reply with an email containing another seemingly random string of alphanumeric characters - this will be the site key.
- Copy the site key from the email into the buffer, and paste it into the **Site Key** field, either using a standard paste command, or by pressing the **Paste** button (the button with the icon to the left of the **Remove** button).
- Press the **Register** button, and restart the software. This will update the license status and enable all the features supported by the requested license level.
- To view the folder in which the license is located, press the **Folder** button. This opens the folder containing the license, which may be useful in cases where the user may need to move or delete the license.
- The license may be removed simply by pressing the **Remove** button.
- Once the user is finished with the licensing process, they may press the **Close** button to close **Drastic Licensing** window.

### 2.6.3 Licensing for Linux and macOS

To access the site code using LicenseMR under **Linux**:

Open the command line and navigate to the opt/mediareactor directory i.e cd  
`/opt/mediareactor`

Run the license application as a super user, i.e `sudo ./licensemr4`

After the application is opened, fill in your username and email and click on the Generate button. This will generate the site code which you will need to send to the authorization dept to issue a site key. Paste the key in the Site Key field and click on register to activate the license.

To access the site code using LicenseMR under **macOS**:

Go to Applications and open the MediaReactor folder. In that folder will be the LicenseMR application.

After the application is opened, fill in your username and email and click on the Generate button. This will generate the site code which you will need to send to the authorization dept to issue a site key. Paste the key in the Site Key field and click on register to activate the license.

Through DDRSetup (Linux and macOS):

There is a license app installed with MediaReactor called ddrsetup. On the command line go to its directory and type:

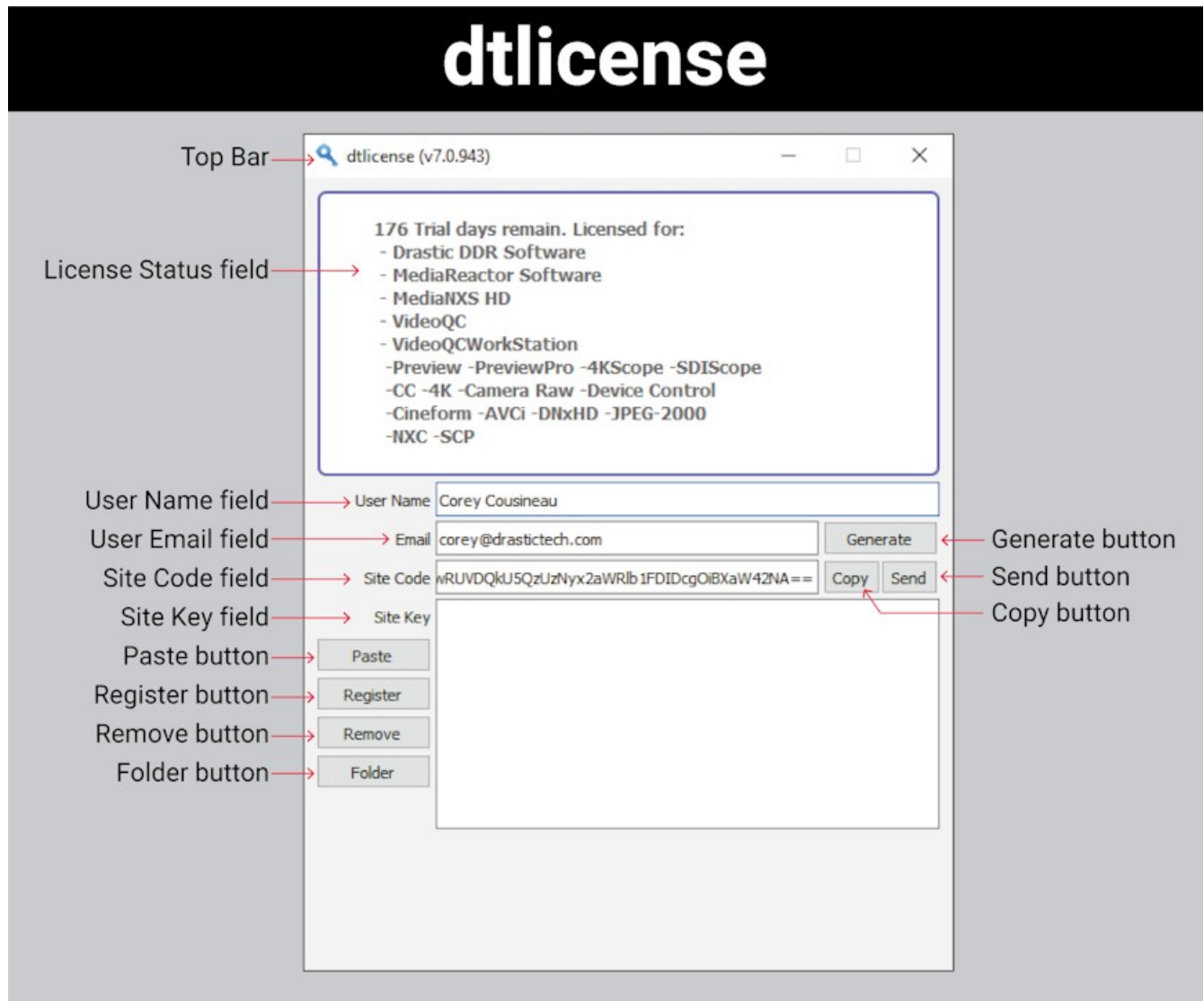
```
./ddrsetup -l -n "Your Name" -e "your.email@company.com"
```

In the command above, use the quotes.

Copy and paste the output and send it to [authorization@drastictech.com](mailto:authorization@drastictech.com). Drastic will reply with an email containing the Site Key.

## 2.7 License MediaReactor Controls and Displays

Here is the License MediaReactor interface.



### 3 Using MediaReactor Workstation

MediaReactor Workstation is designed to provide direct, real time editing of non editor native formats for Adobe, Avid, Apple, Autodesk, Nucoda, Assimilate, and other QuickTime or DirectShow based products.

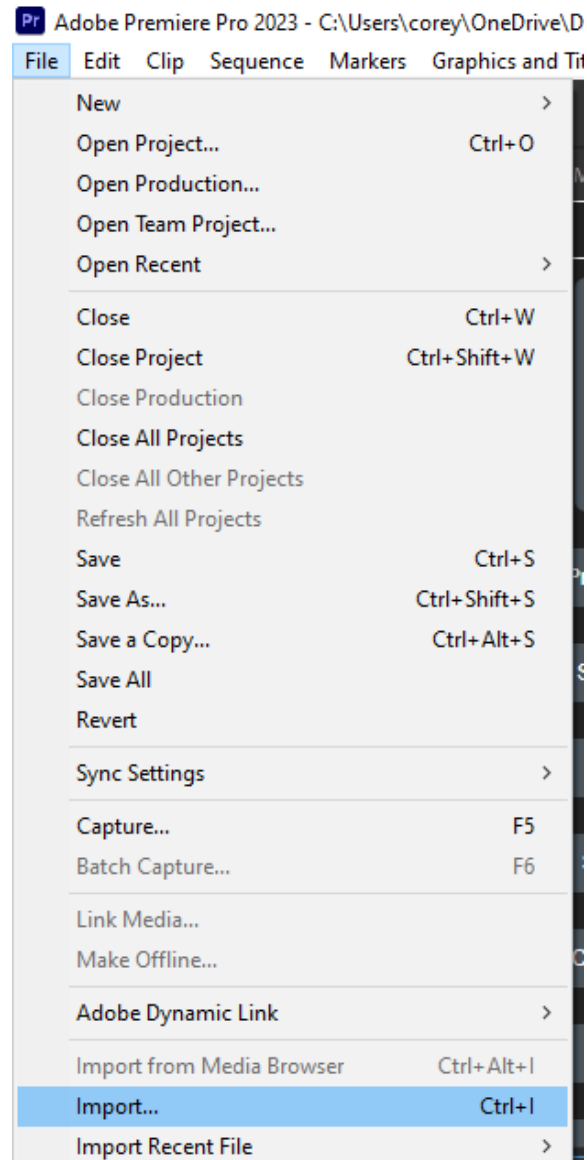
MediaReactor Workstation installs a series of plugins which allow editors to add media (which would normally have required a transcoding step) directly into their editing package, and use the media as if it were a natively understood format.

For specific applications there are also command line components available for use.

**NOTE:** When outputting Panasonic P2 formats, a CONTENTS and a series of subdirectories are created to contain the file – these are not created in the selected directory.

### 3.1 ...with Adobe Premiere CC

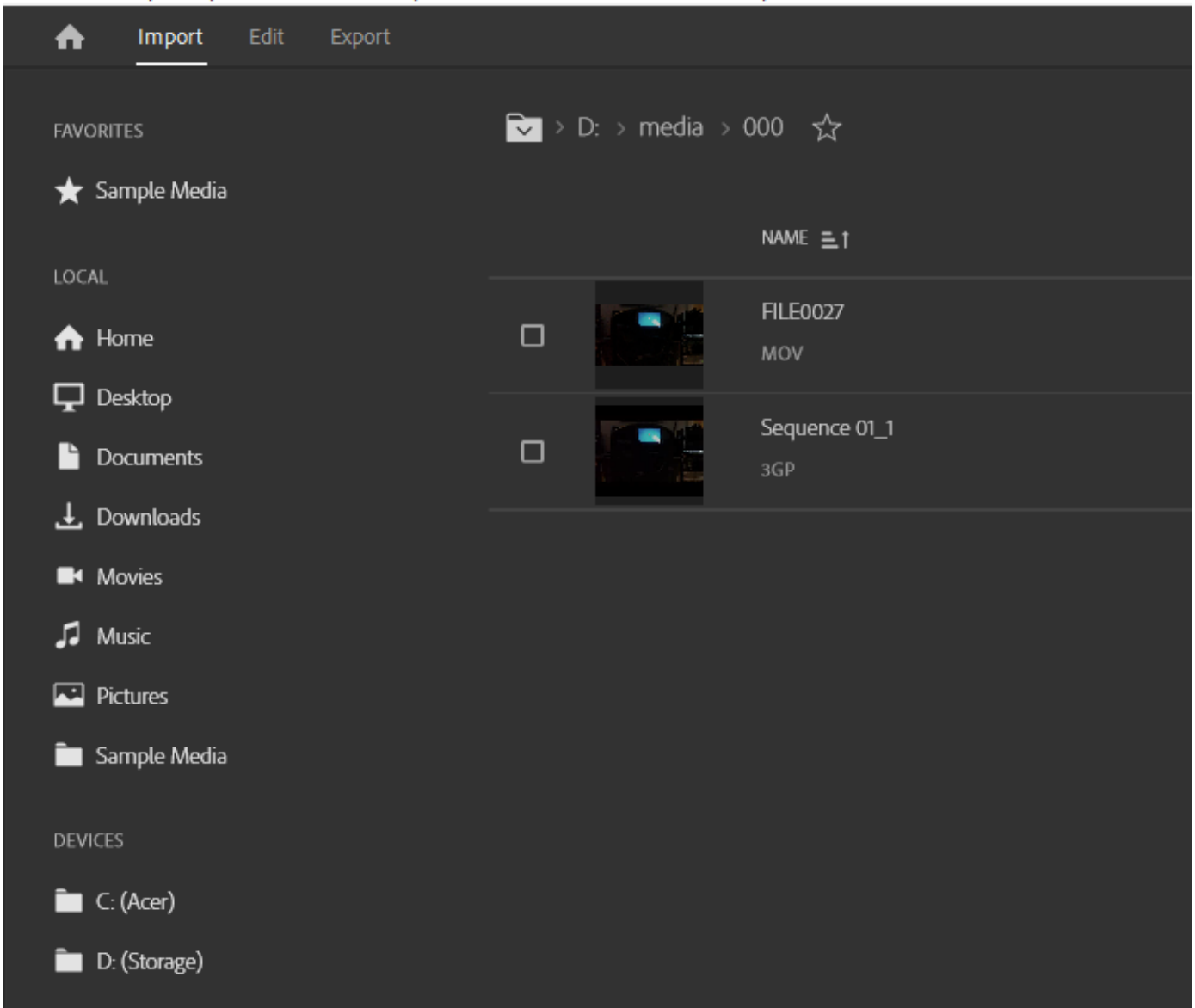
To bring a file into Premiere for editing, select the menu **File | Import** or right click in the Project area and select **Import**.



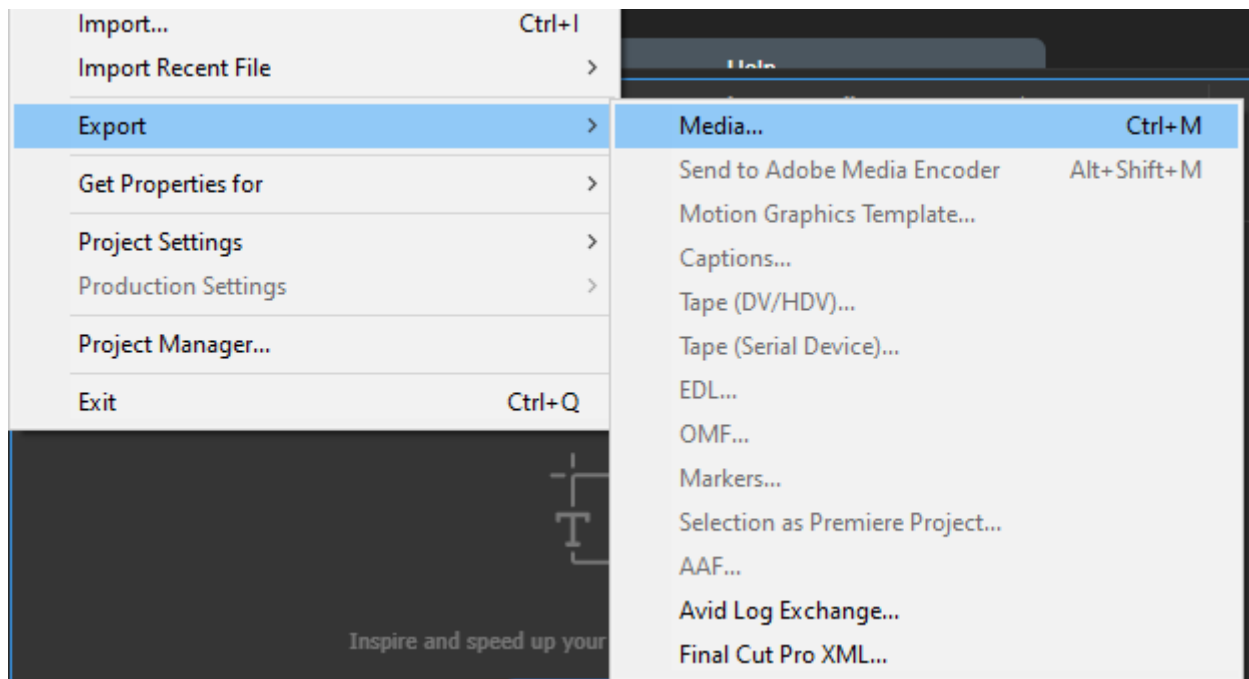
Adding files via the Media Browser area is also supported.

Pr Adobe Premiere Pro 2023 - C:\Users\corey\OneDrive\Documents\Adobe\Premiere Pro\22.0\speculum.prproj

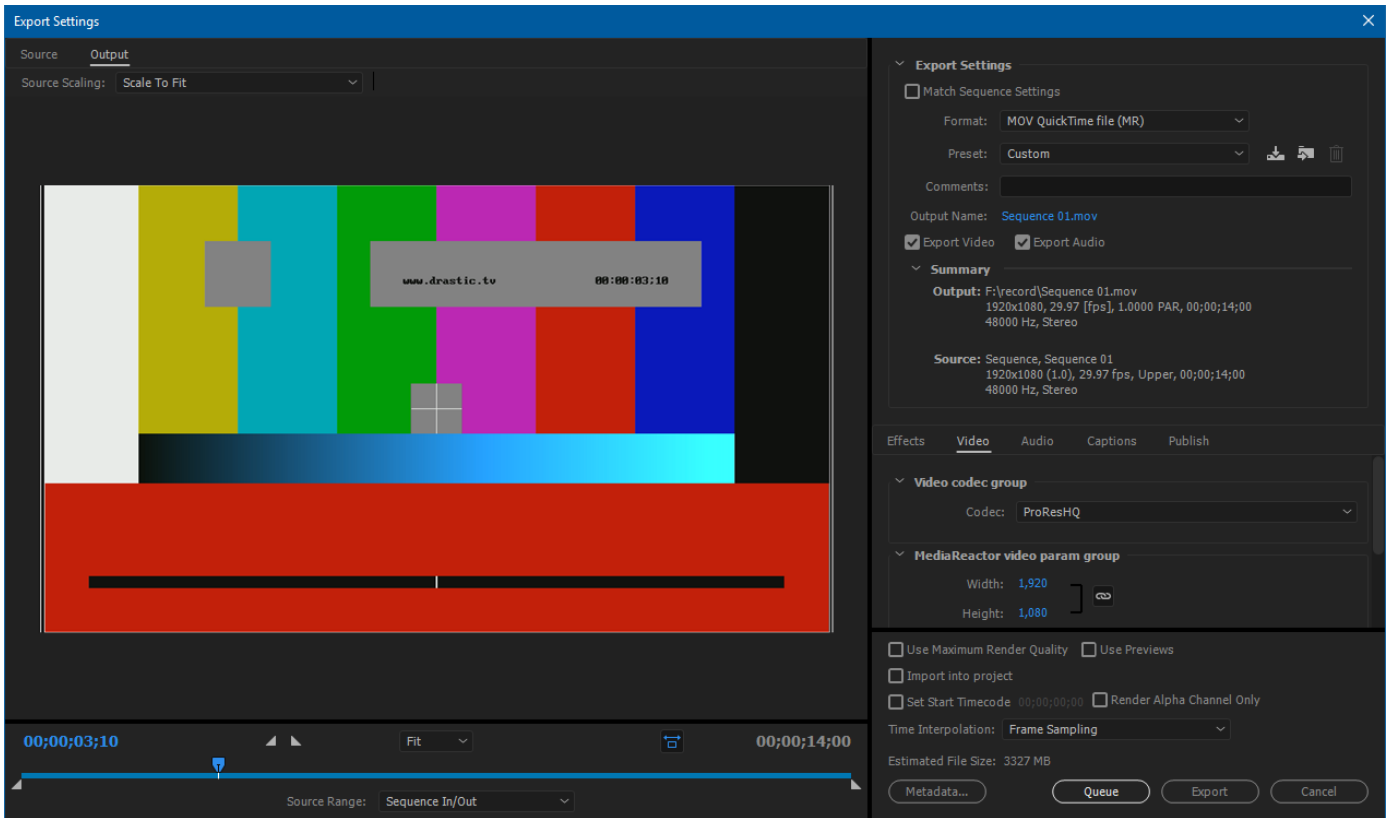
File Edit Clip Sequence Markers Graphics and Titles View Window Help



To export a file from Premiere, select the menu **File | Export** → **Media**.



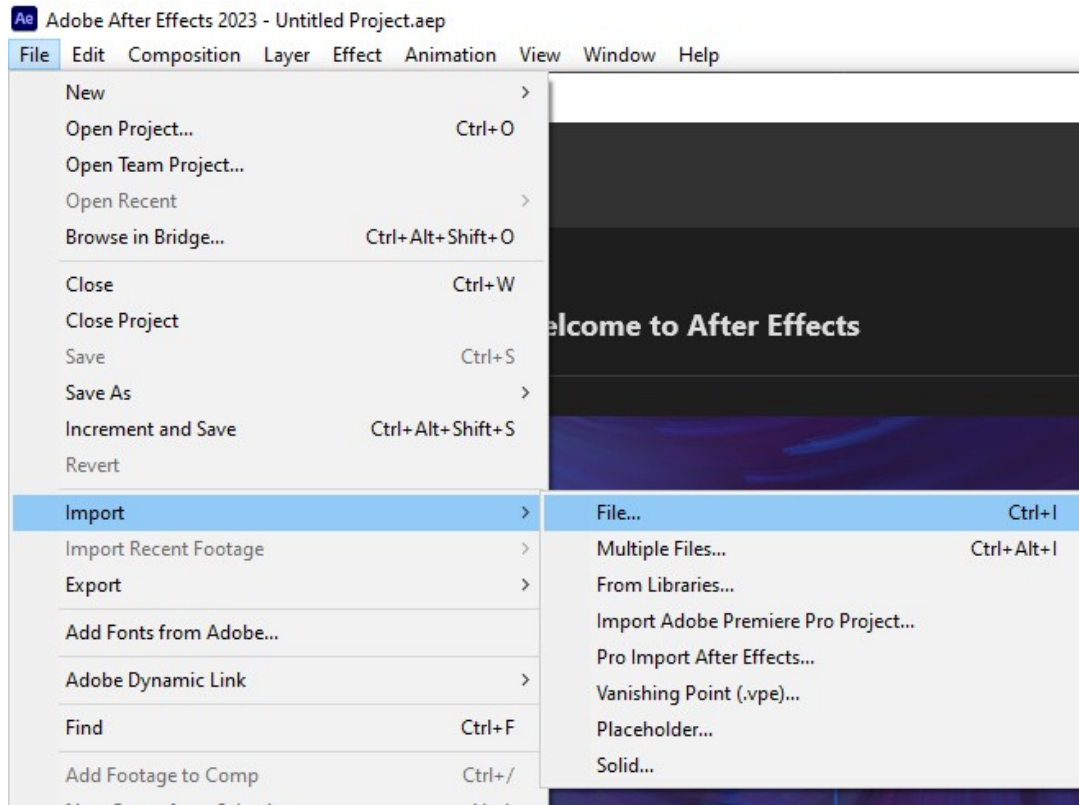
This loads the file into the dialog box.



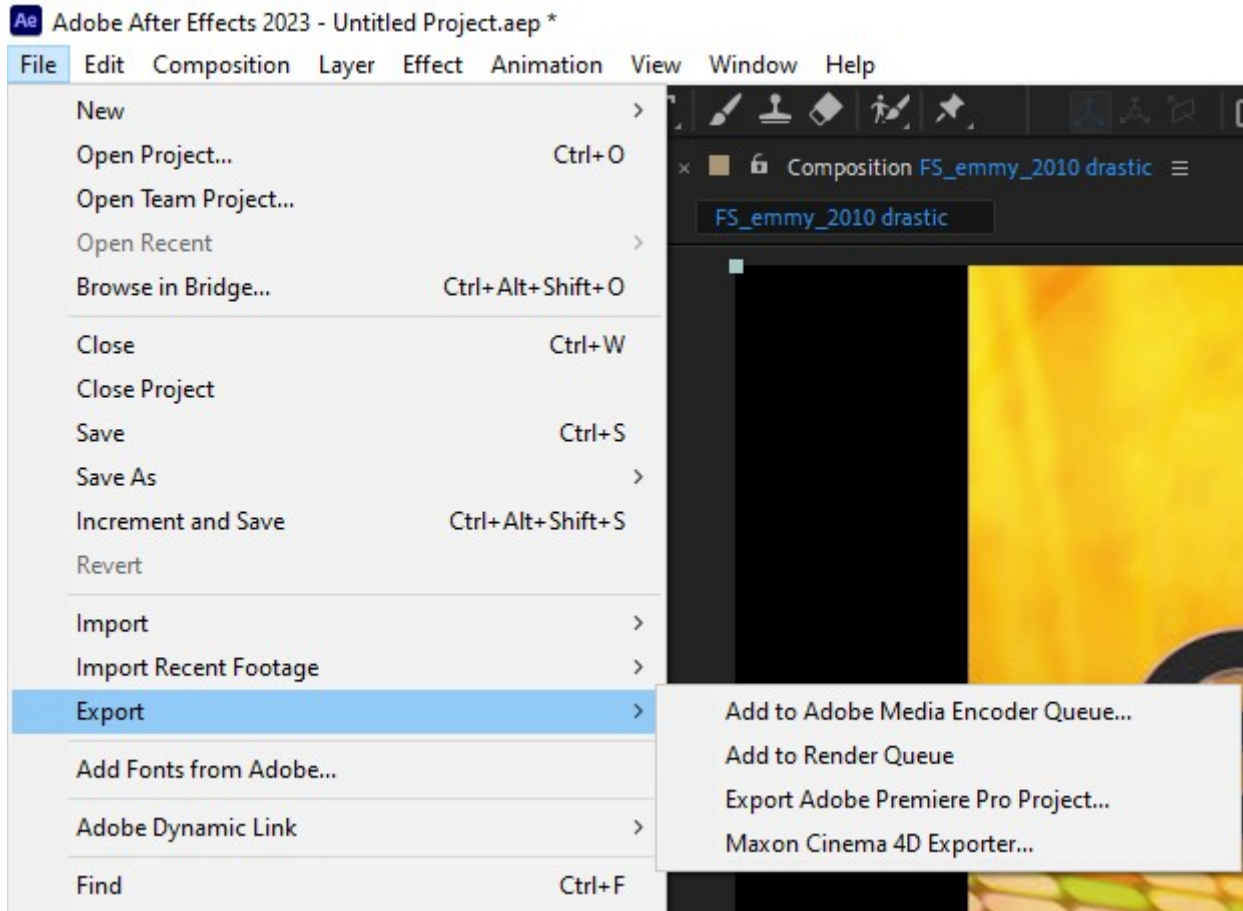
Select the Format drop down to select the type. Set the settings and click the **Export** button.

## 3.2 ...with Adobe After Effects CC

To bring a file into After Effects for editing, select the menu **File | Import** or right click in the Project area and select **Import**.



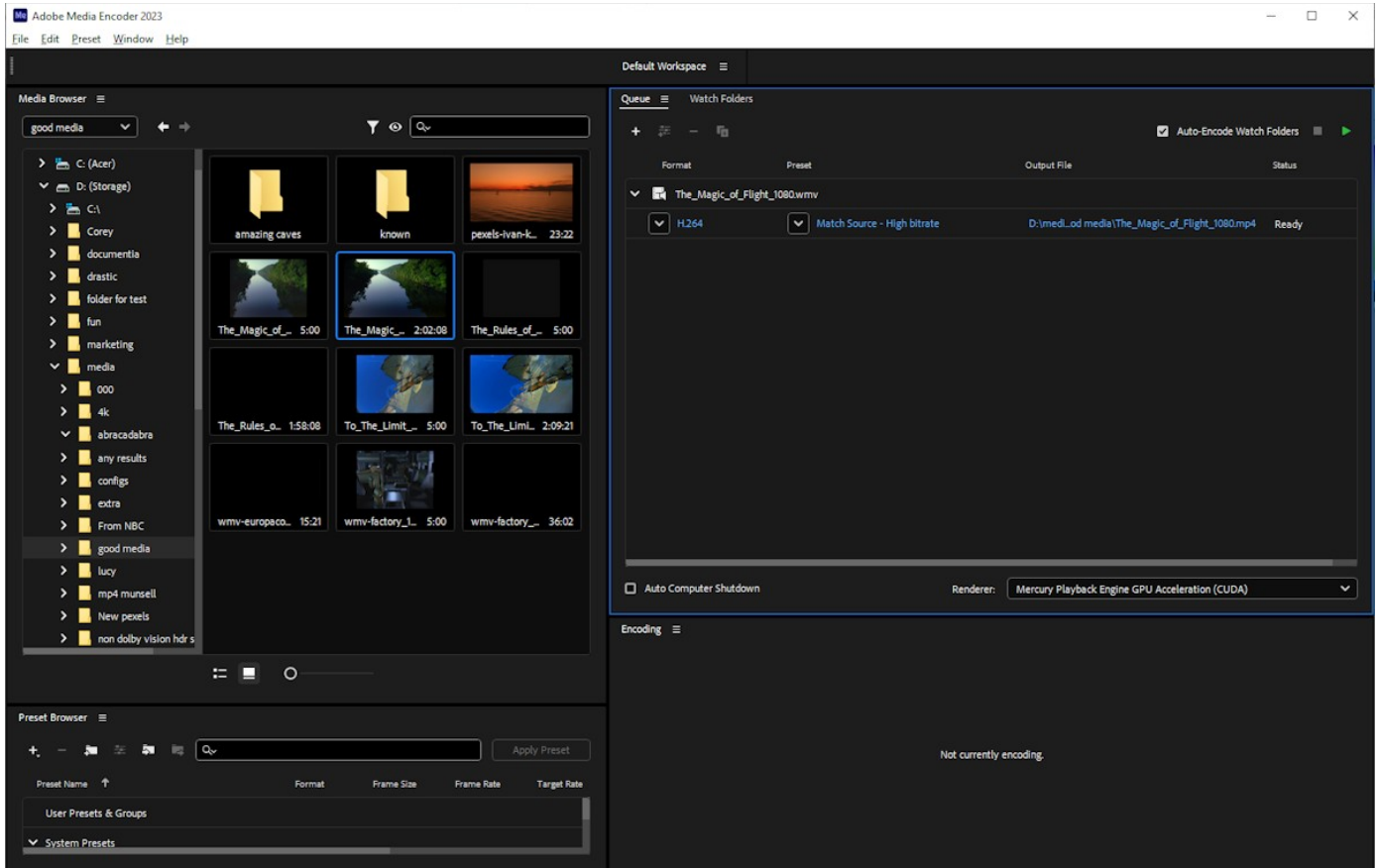
To Export a project via MediaReactor, select the File and Export menu



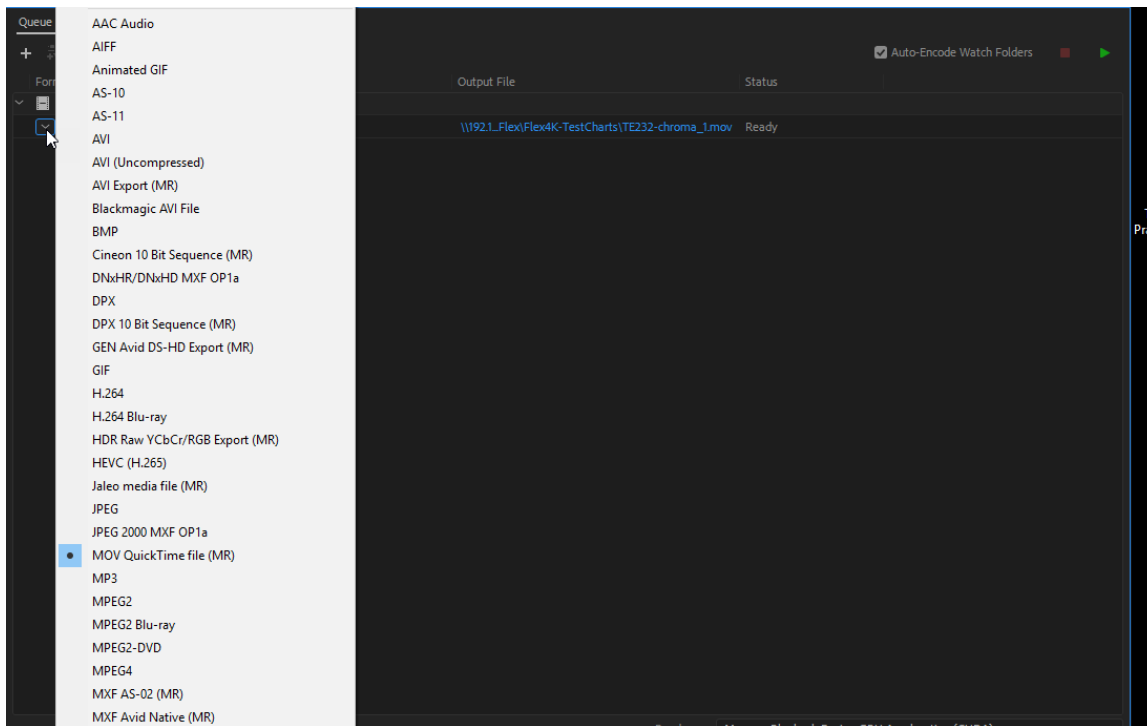
For more information on exporting, see the *Premiere CC* or *Media Encoder CC* sections of this manual.

### 3.3 ...with Adobe Media Encoder CC

In Media Encoder, use the Media Browsers to find the file you want to convert.



Double click on the file to add it to the Queue. Click on the first drop down to select the output file type.

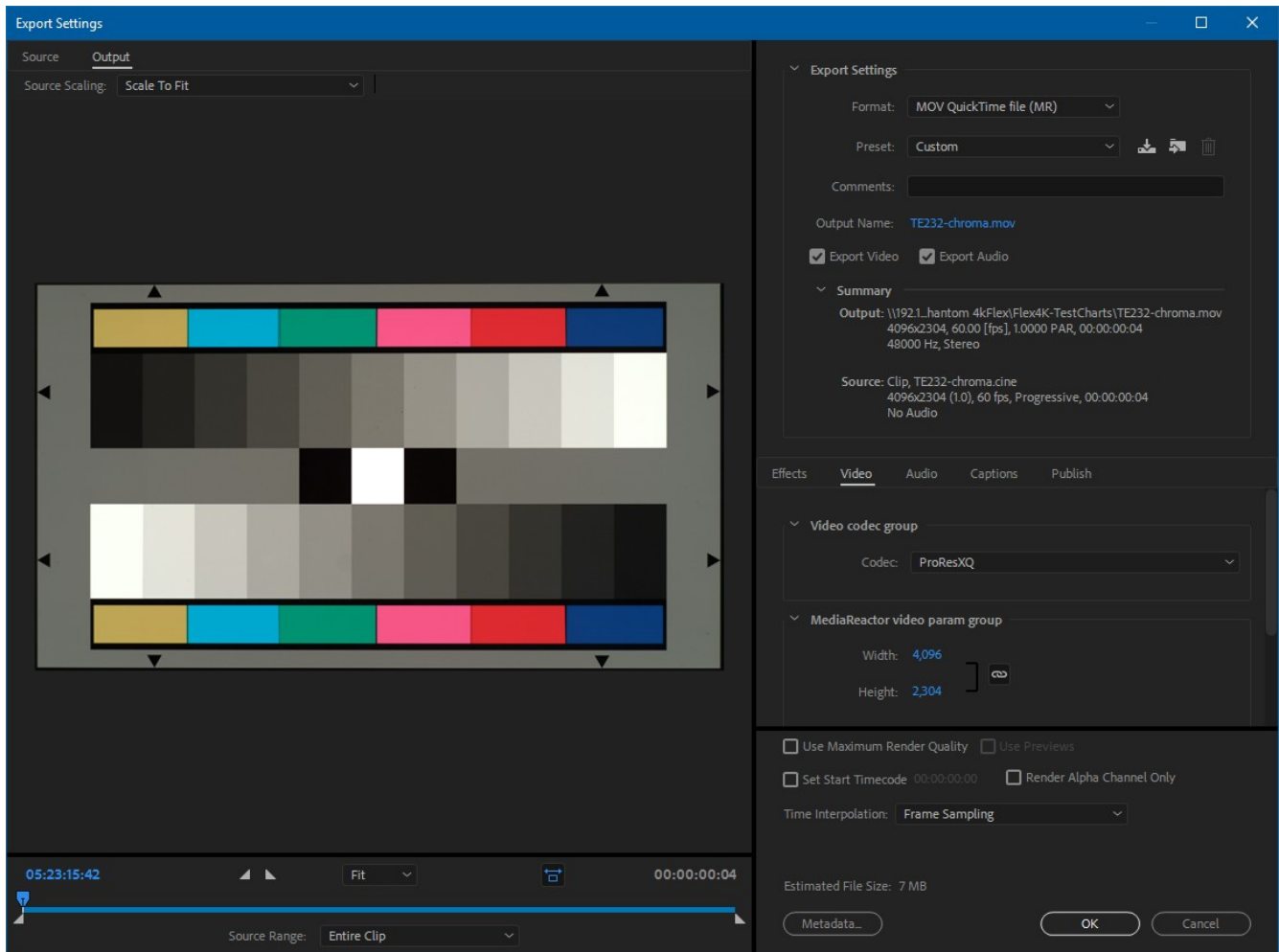


Once you have selected the output file type, clicking on the Output link will bring up the Export settings dialog.

To export a file from Premiere, select the menu **File | Export** → **Media**.

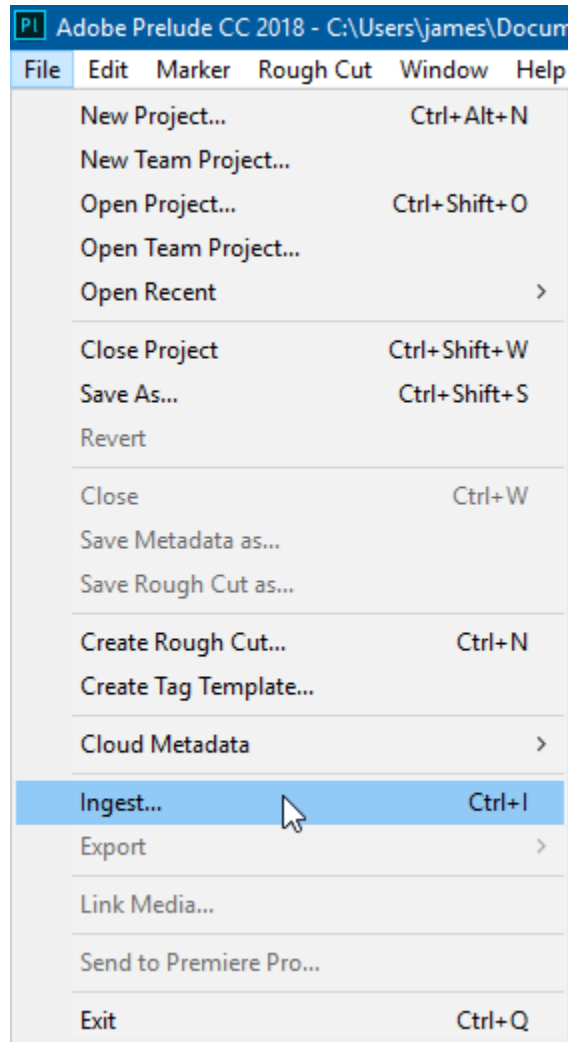
This loads the file into the dialog box.

Select the Format drop down to select the type. Adjust or confirm the settings and click the **Export** button.

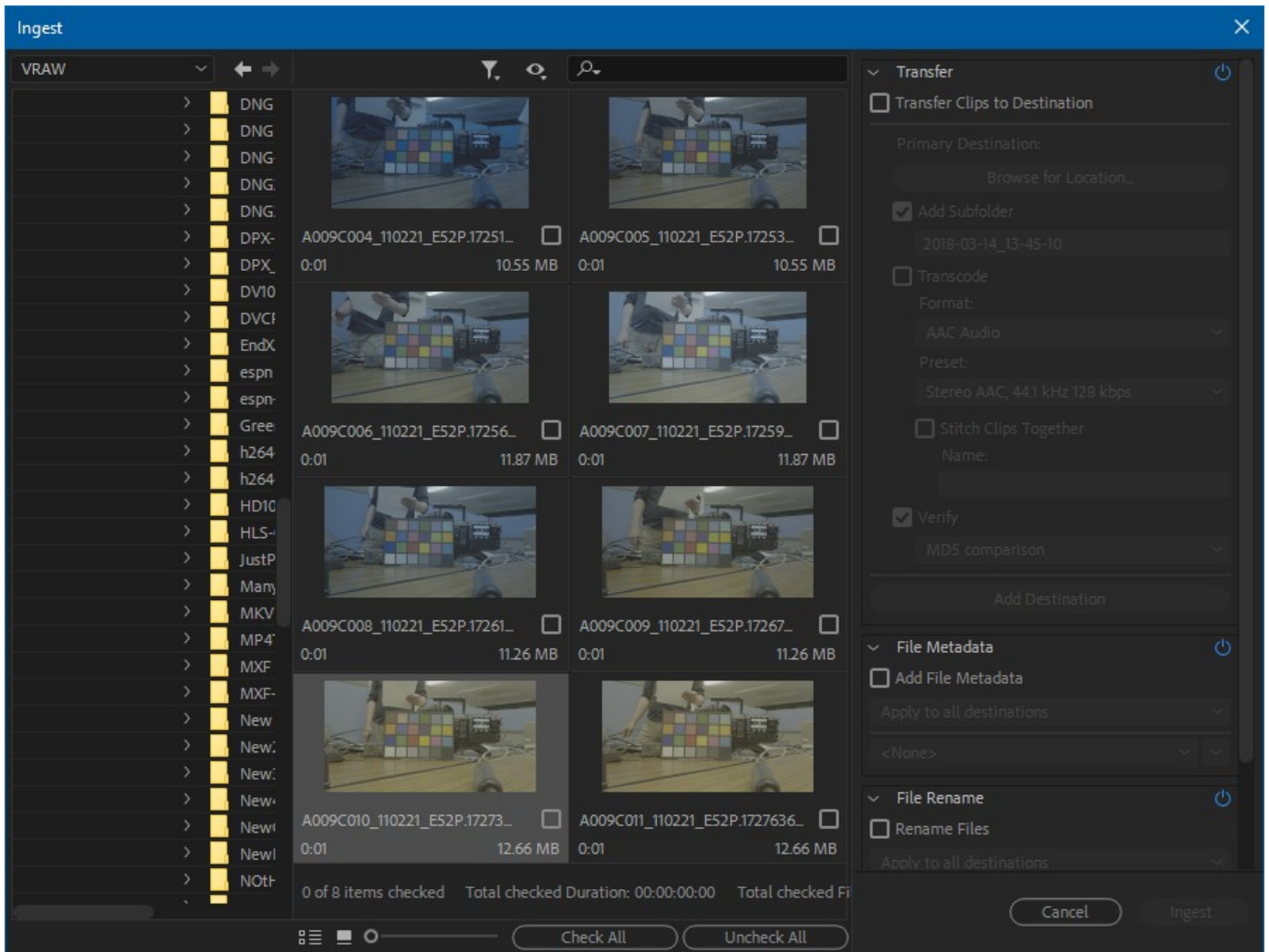


### 3.4 ...with Adobe Prelude CC (deprecated)

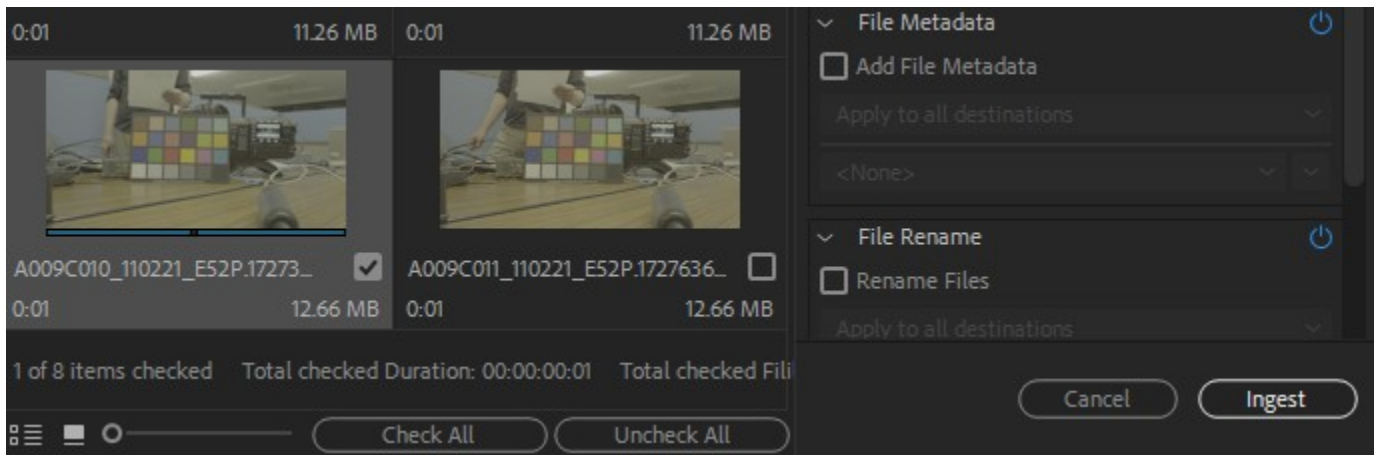
To bring a file into Prelude for logging, select the menu **File | Ingest** or double click in the Project area.



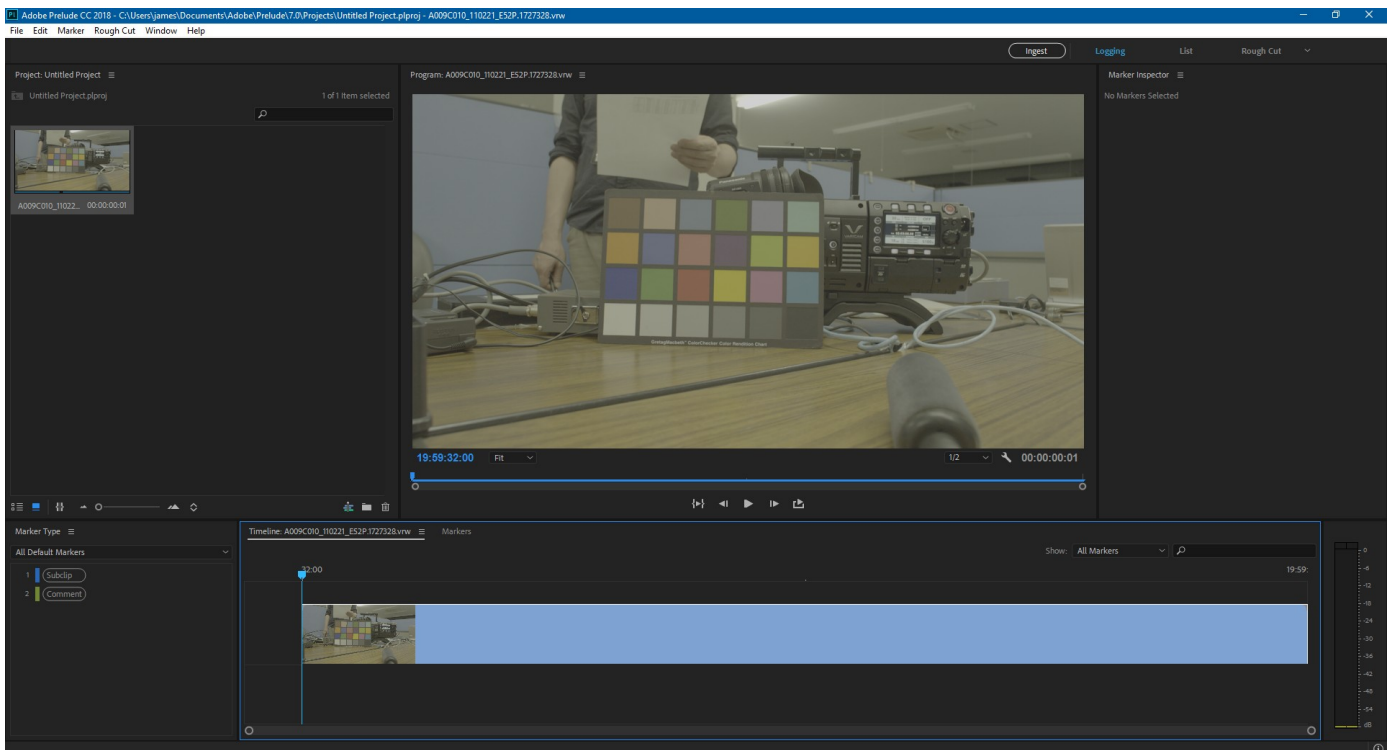
This will bring up the ingest dialog



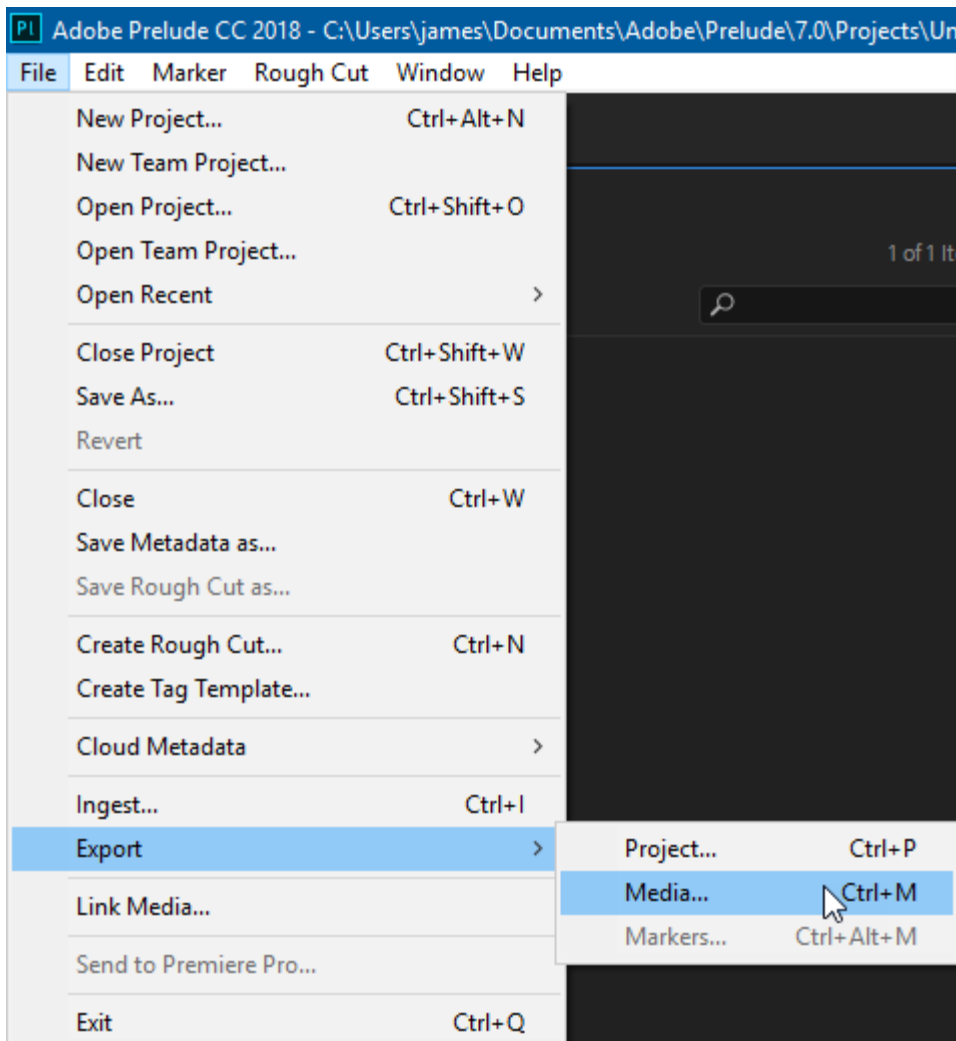
Checking one or more of the files, and clicking **Ingest** will bring the files into Prelude



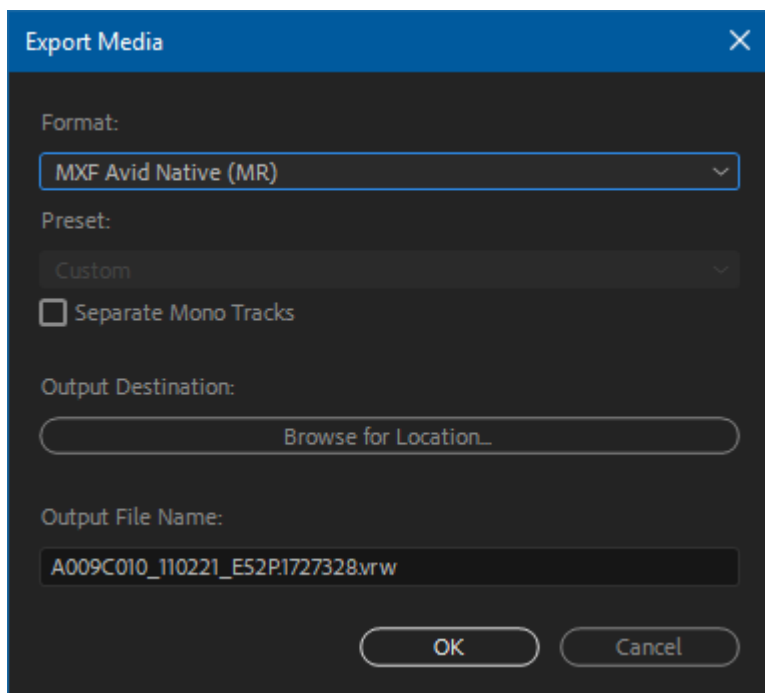
Once it is imported into the project, double clicking on its icon will bring it up in the player and timeline.



Clicking on the clip in the project will also allow you to export it as another format

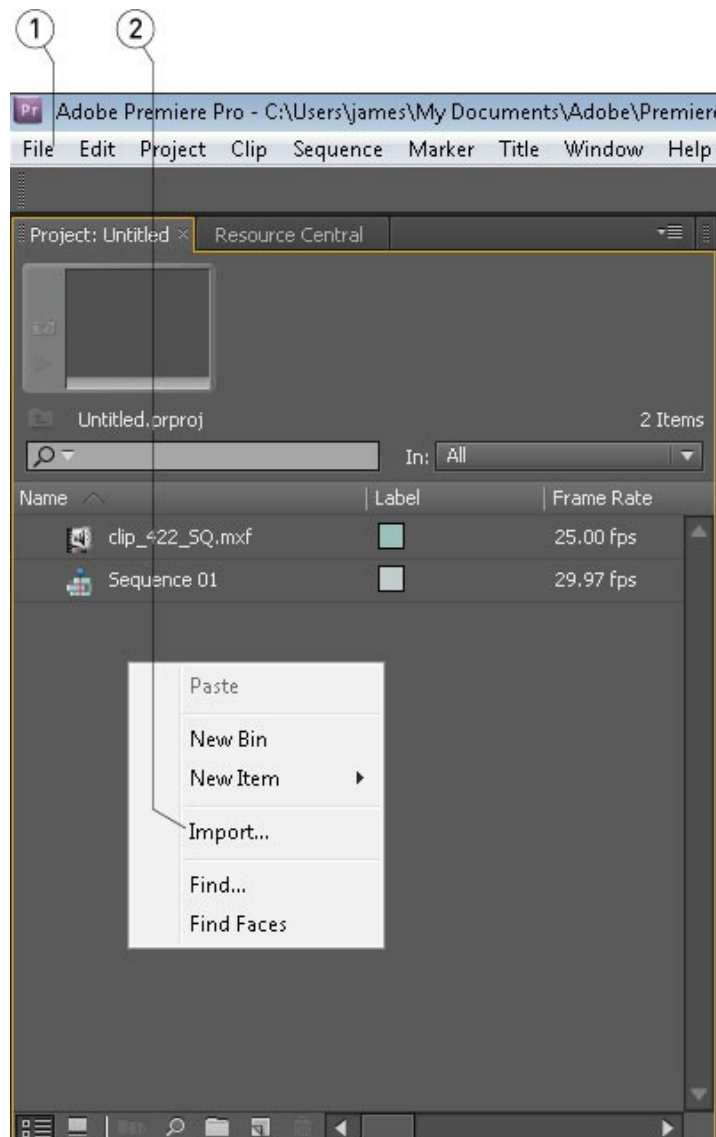


The export type can be chosen in the Export Media dialog



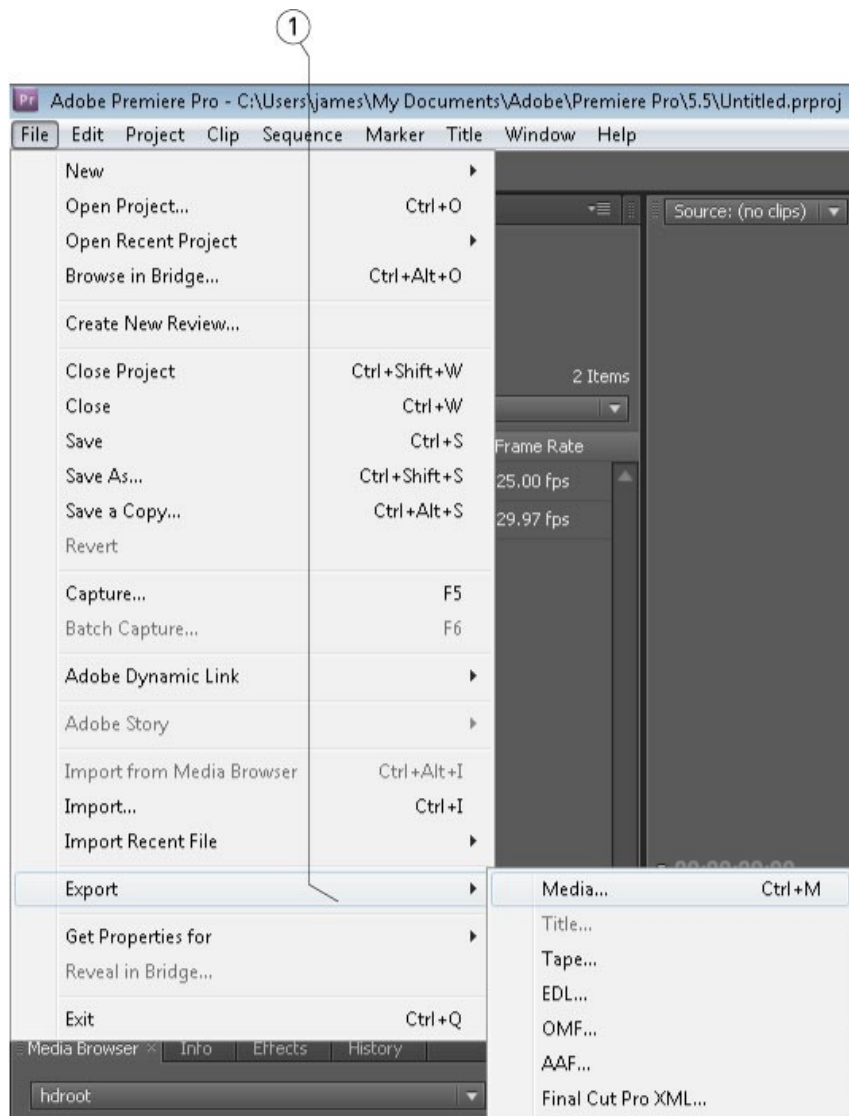
### 3.5 ...with Adobe Premiere CS5/6

To bring a file into Premiere for editing, select the menu **File | Import** (1) or right click in the Project area and select **Import** (2).

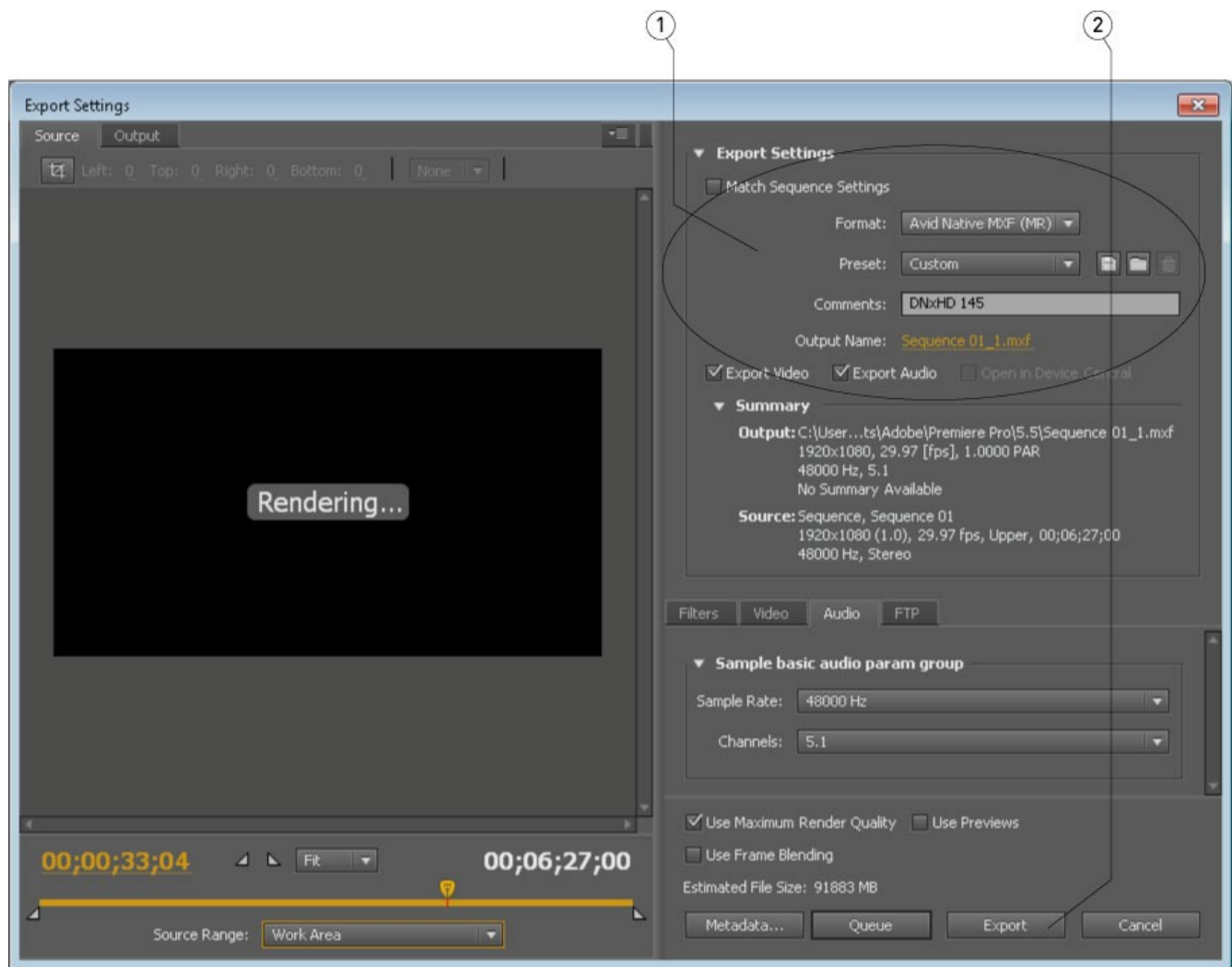


Adding files via the Media Browser area is also supported.

To export a file from Premiere, select the menu **File | Export** → **Media (1)**.



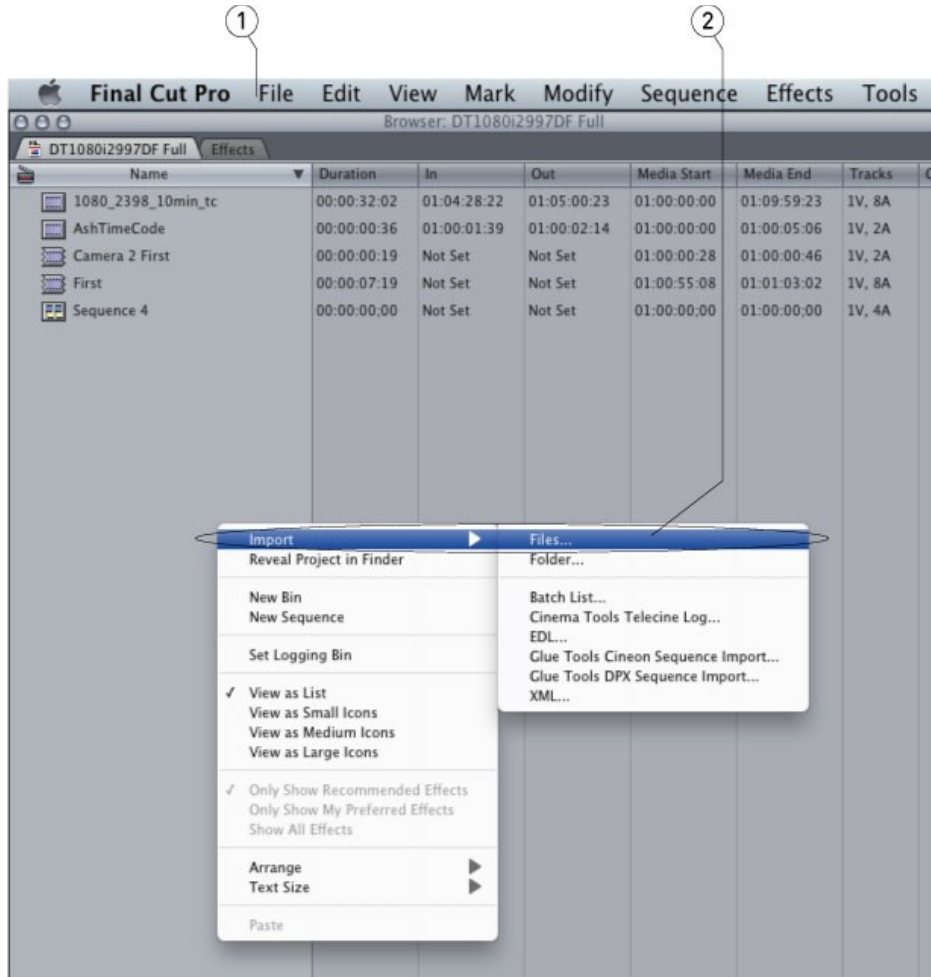
This loads the file into the dialog box.



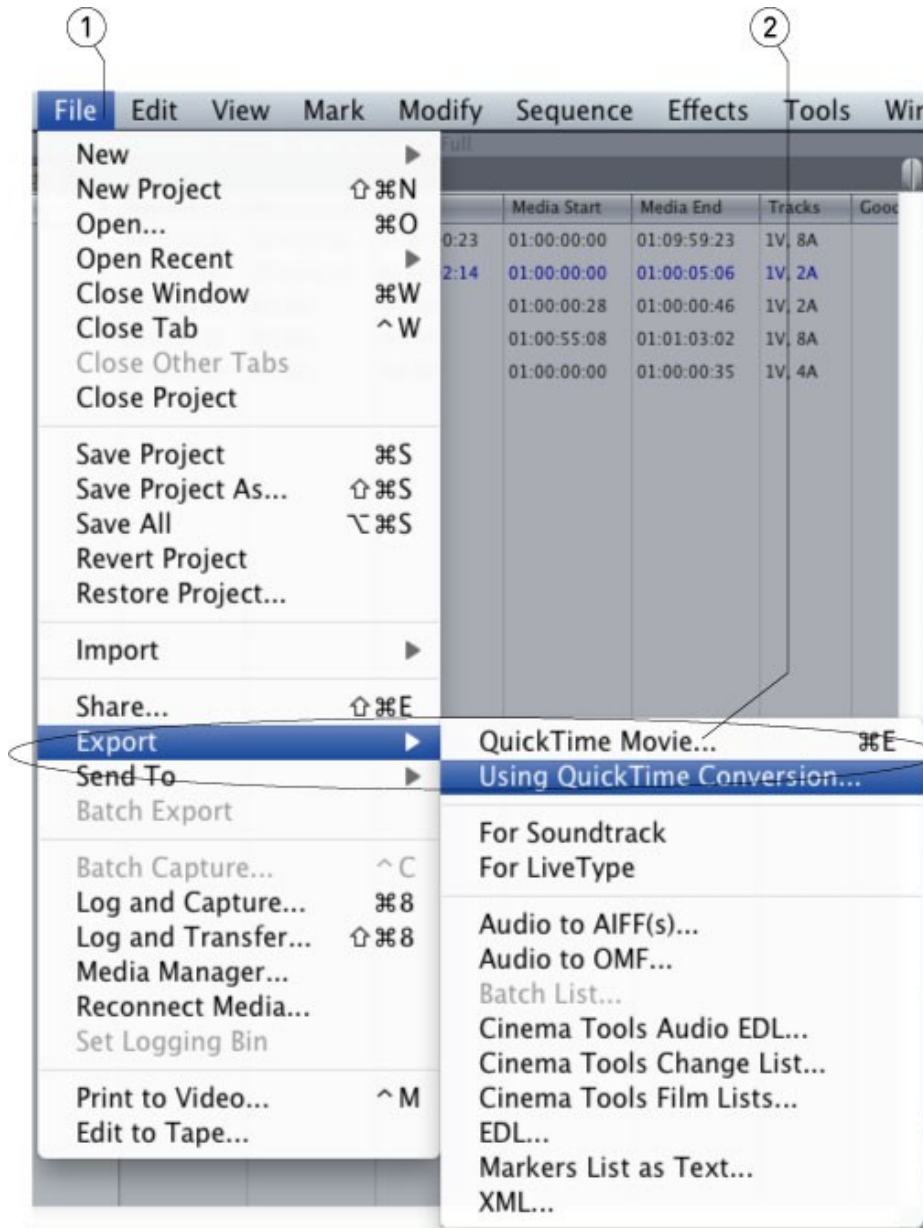
Select the **Format** drop down (1) to select the type. Set the settings and click the **Export** button (2).

### 3.6 ...with Apple Final Cut Pro (Suite 3/7)

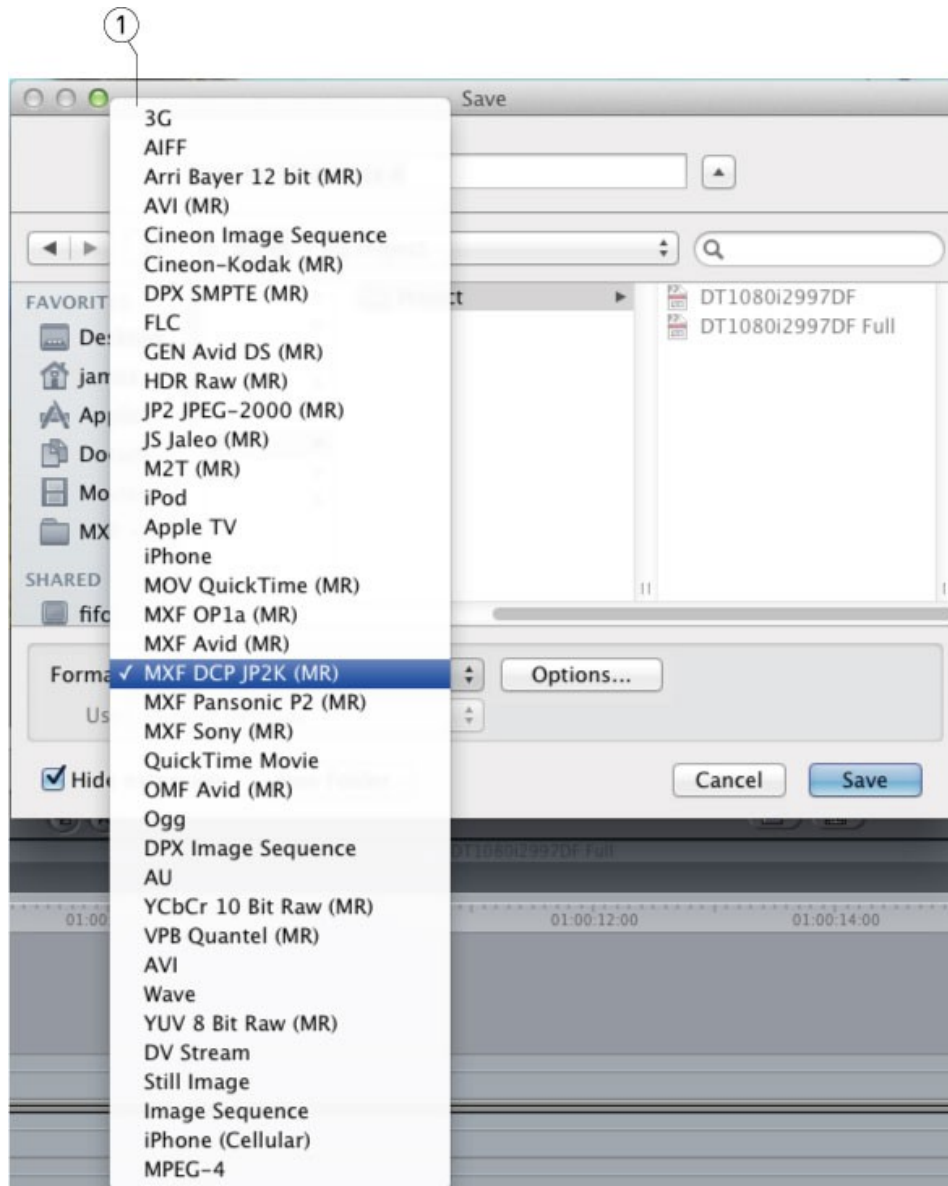
To bring a file into FCP for editing, go to the **File** menu and select **Import** (1). Alternately, right click on the bin and select **Import->Files** (2). Browse to the file and select it.



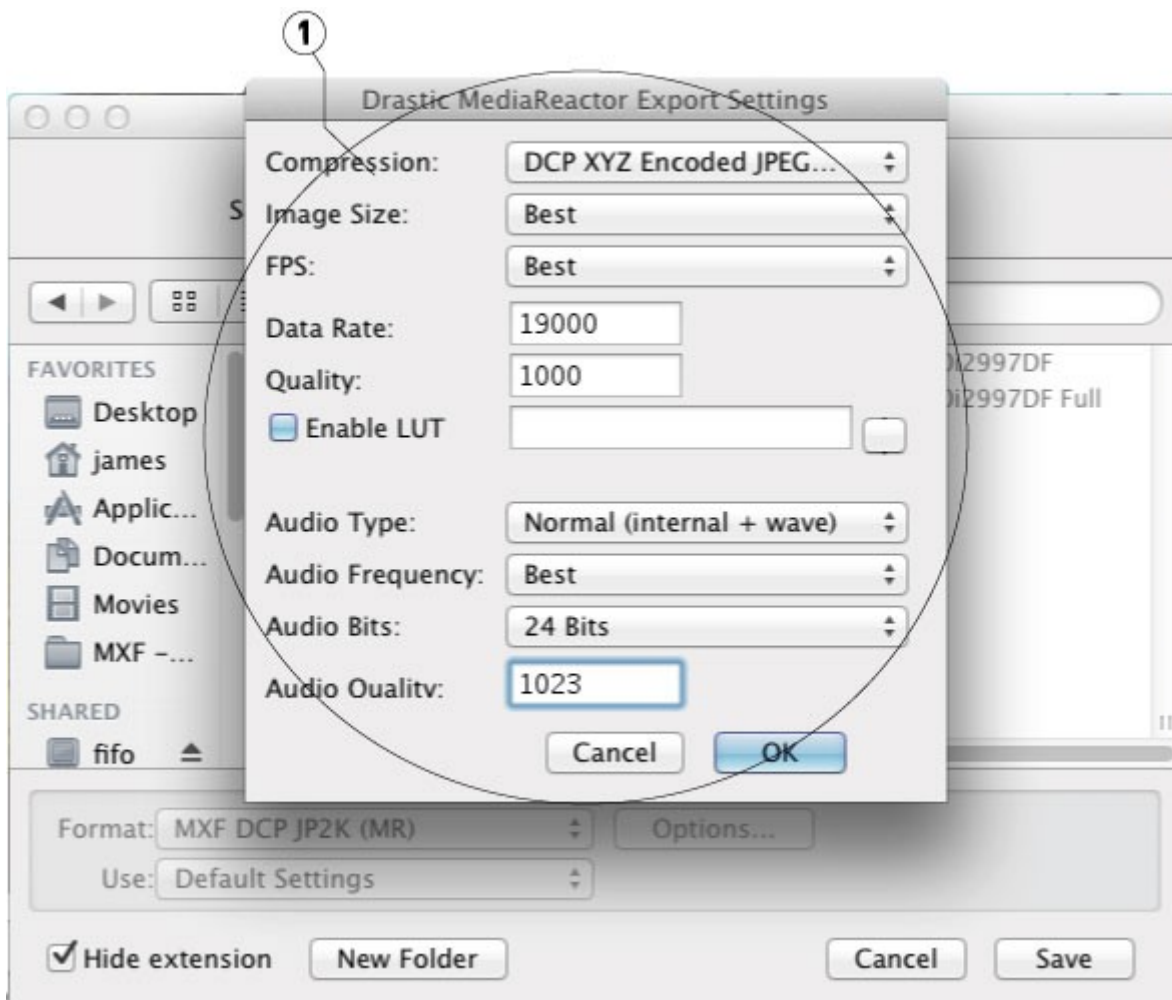
To export a file from FCP, click on the sequence you want to export. Select the **File** menu (1), then **Export->Using QuickTime Conversion...** (2).



Open the **Format** list box and select the output type you want (1).



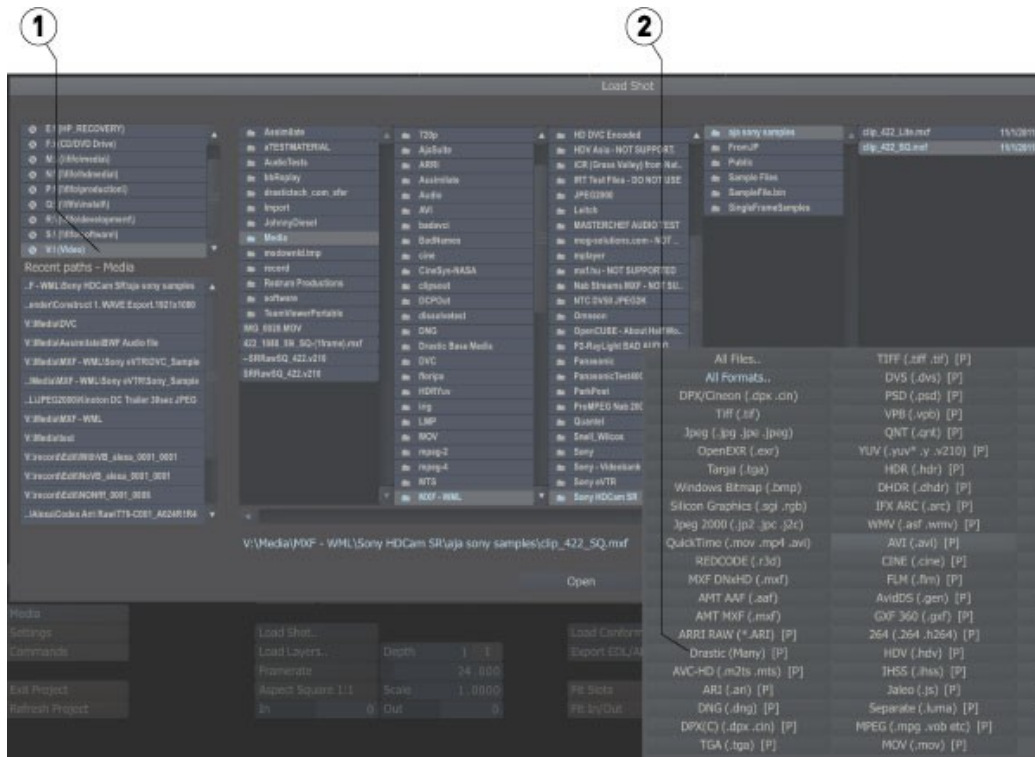
Click the **Options** button to set the options.



Set the name and add the correct extension (FCP will not do this for you). Click **Save** to export the sequence.

### 3.7 ...with Assimilate Scratch/Lab

To bring a file into Assimilate Scratch/Lab, from the **TimeLine | Media** area, select **Load Shot**.



The file browser (1) will contain all the compatible types.

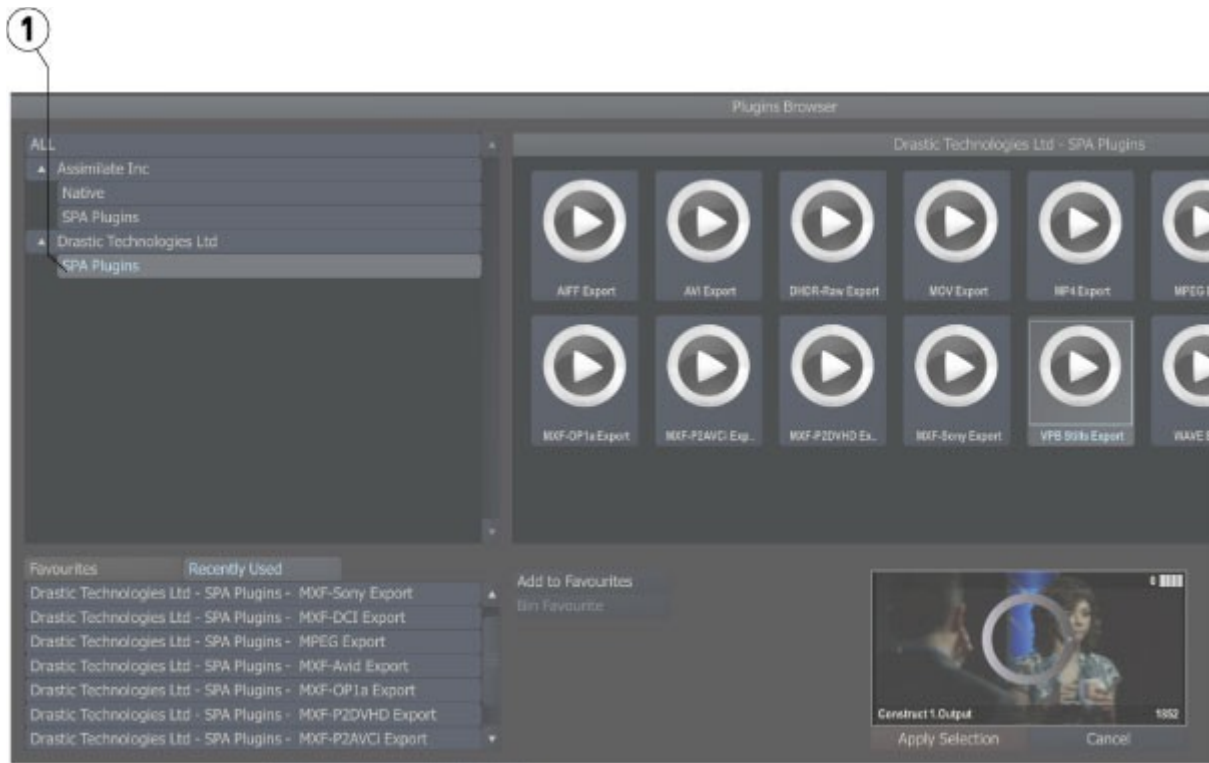
For types that are supported in Scratch and MediaReactor Workstation (e.g. ARRI, MXF), select the **Drastic Many** file filter (2) to force the MediaReactor Workstation plugin to be used.

To export a file from Assimilate SCRATCH/Lab, from the **Output** area, press the **Add Single Output** button (1) to add a single node.

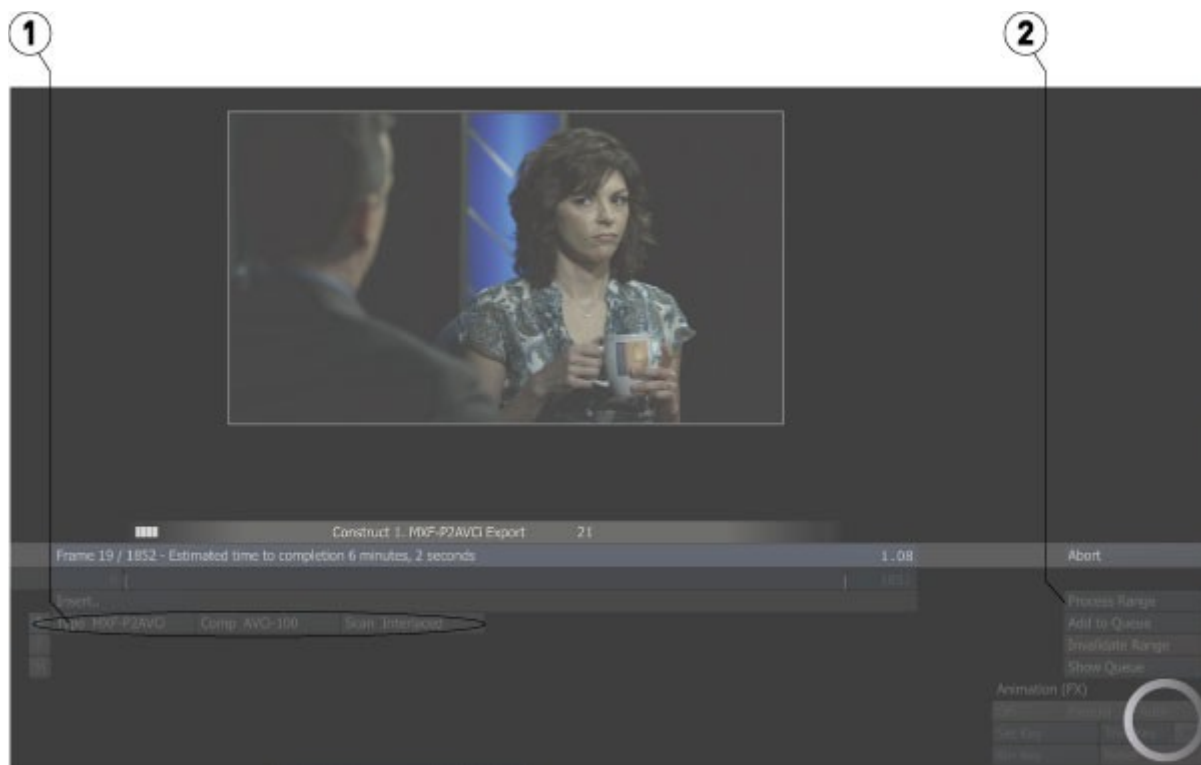


Press the **Play** button (1) – it's the circle with an arrow in it - to go to the output page.

Click the **Insert...** button (1) to open the Export Plugins window.



Use the **Export Plugins** window to select the output type from the **Drastic SPA Plugins** (1).

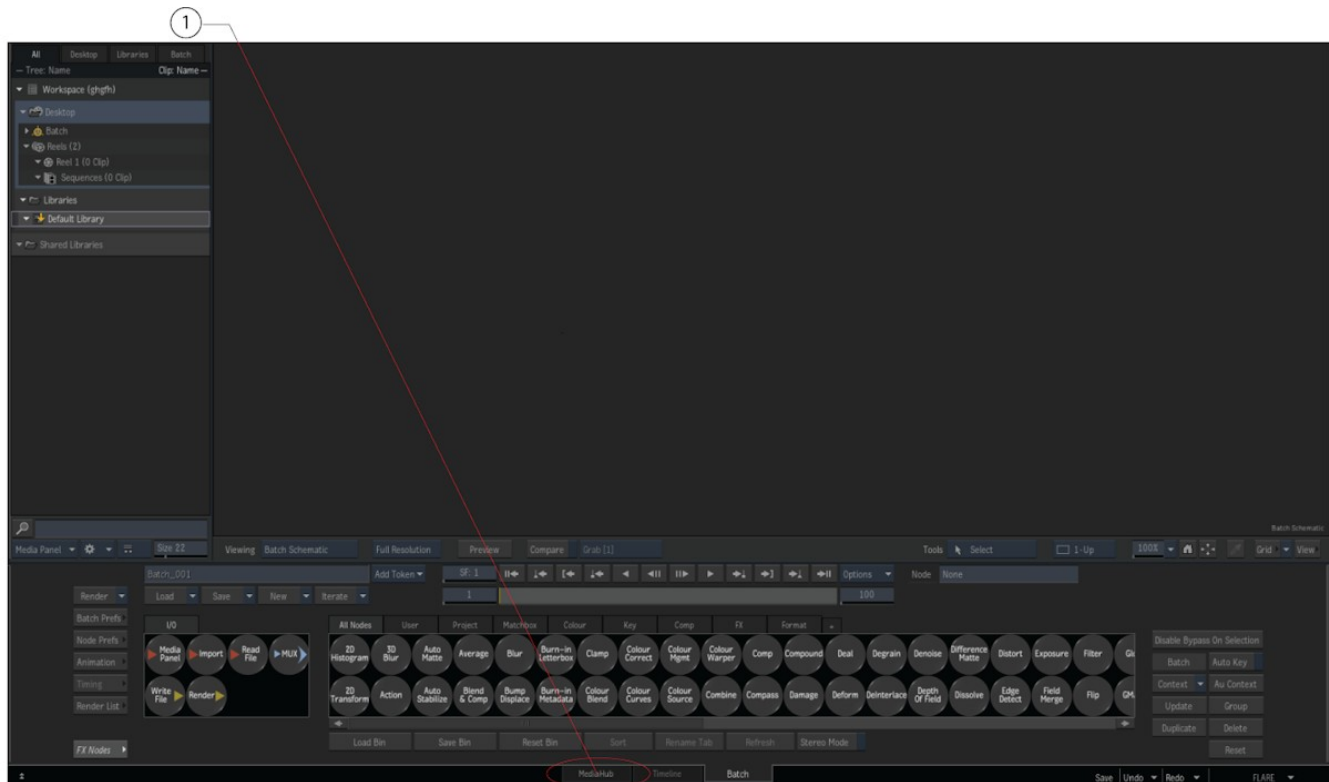


Adjust the parameters (1), and click the **Process Range** button (2) to export.

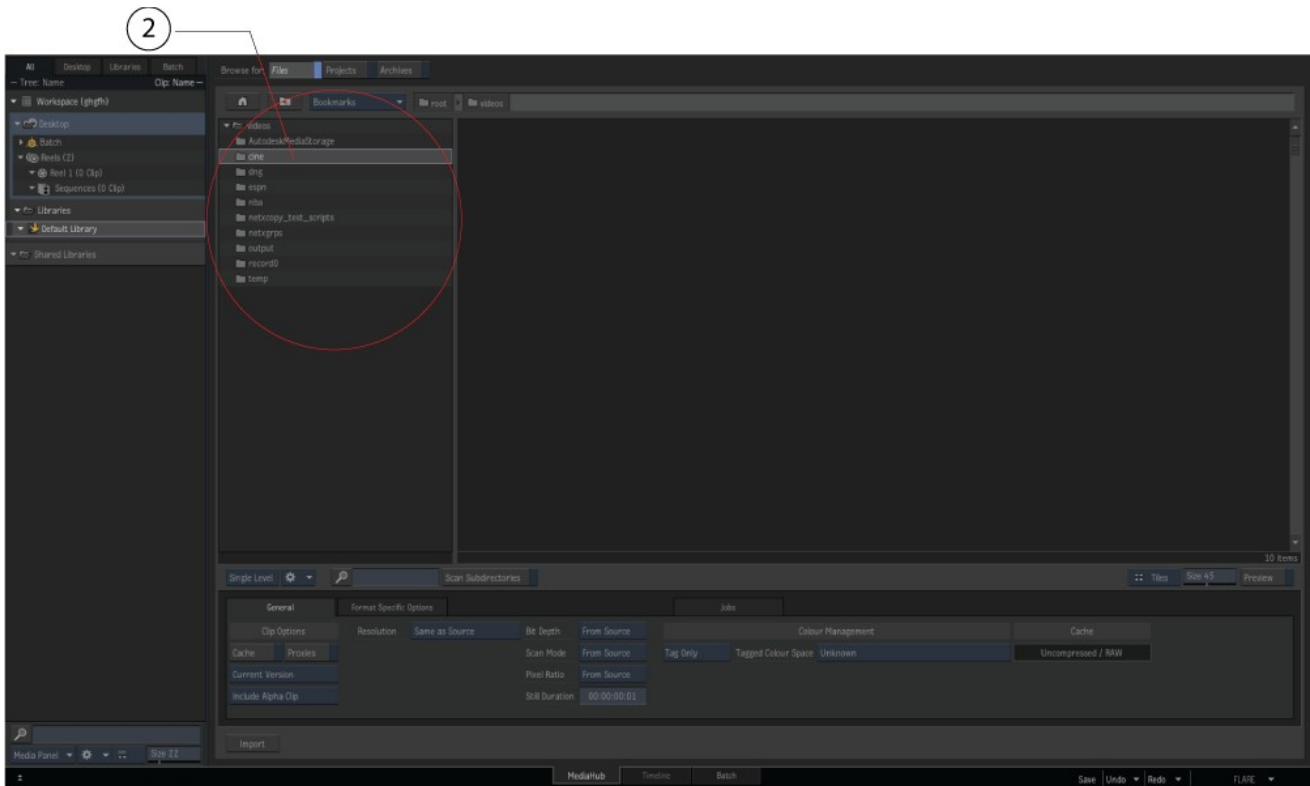
## 3.8 ...with Autodesk Flame

Autodesk Flame users will already be familiar with how to open and work with a file in Flame. With MediaReactor properly installed and licensed, support for several new formats will be added. It is possible to confirm that the MediaReactor plugin is being used to open these files.

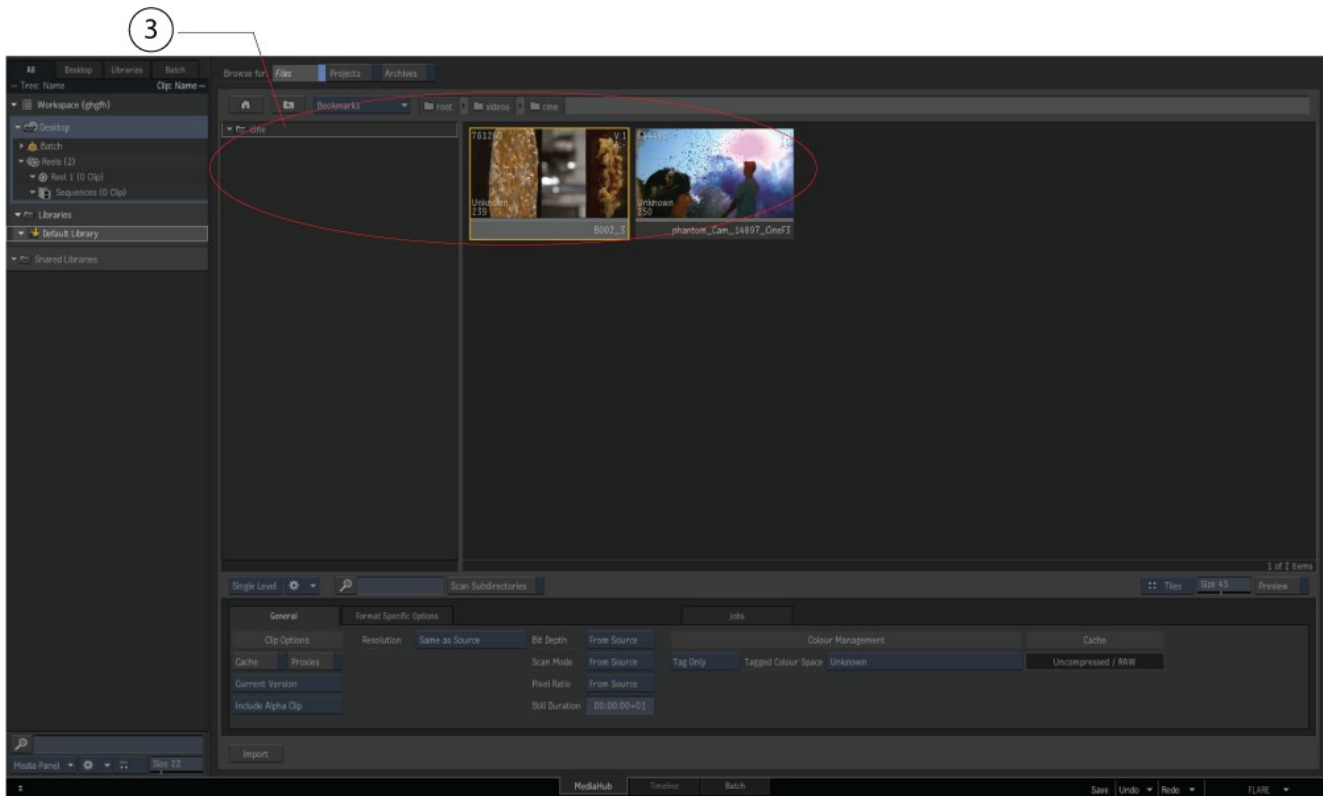
Open Flame, and press the MediaHub tab (1) at the bottom to view accessible media.



Clicking on the Media Hub displays the contents of the media folder (2).

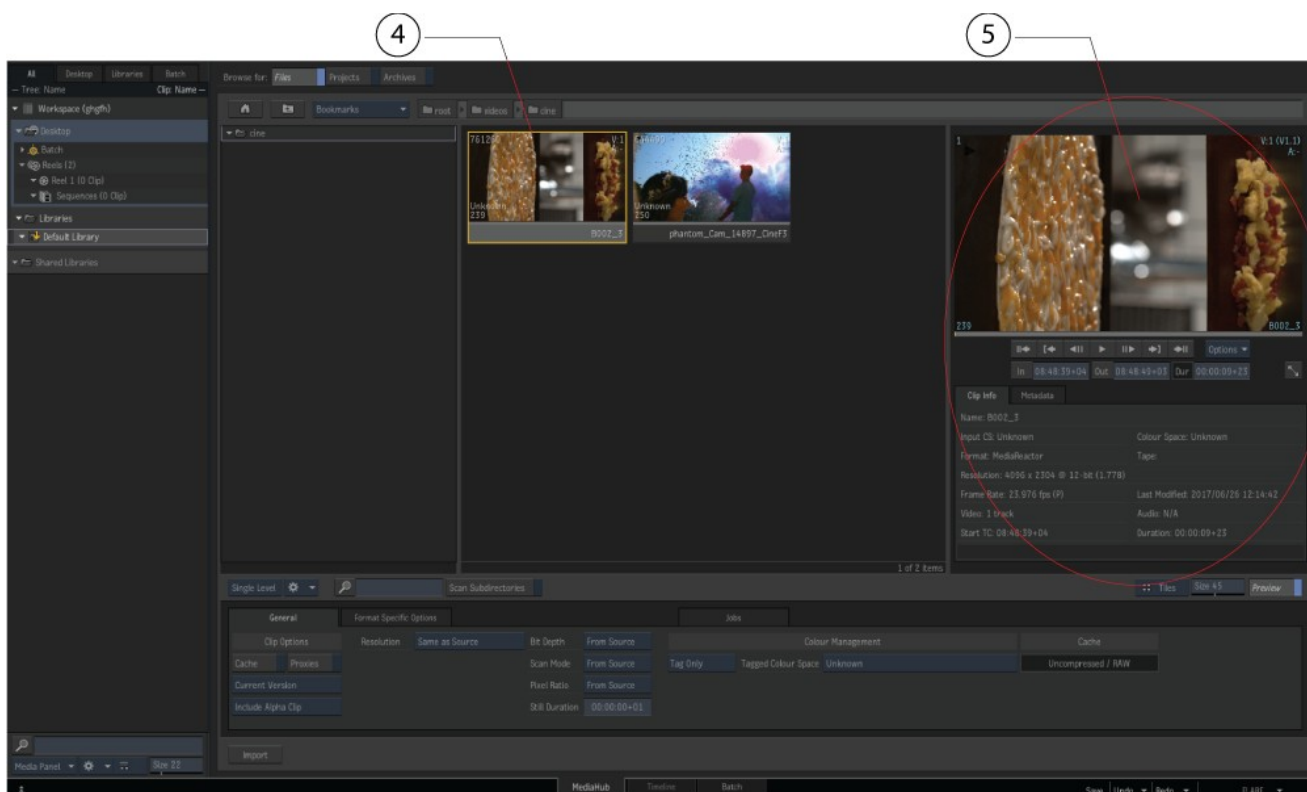


Double clicking on a folder will display the contents of the folder. In this case the Cine folder (3) has been selected, and the clips in it are displayed.



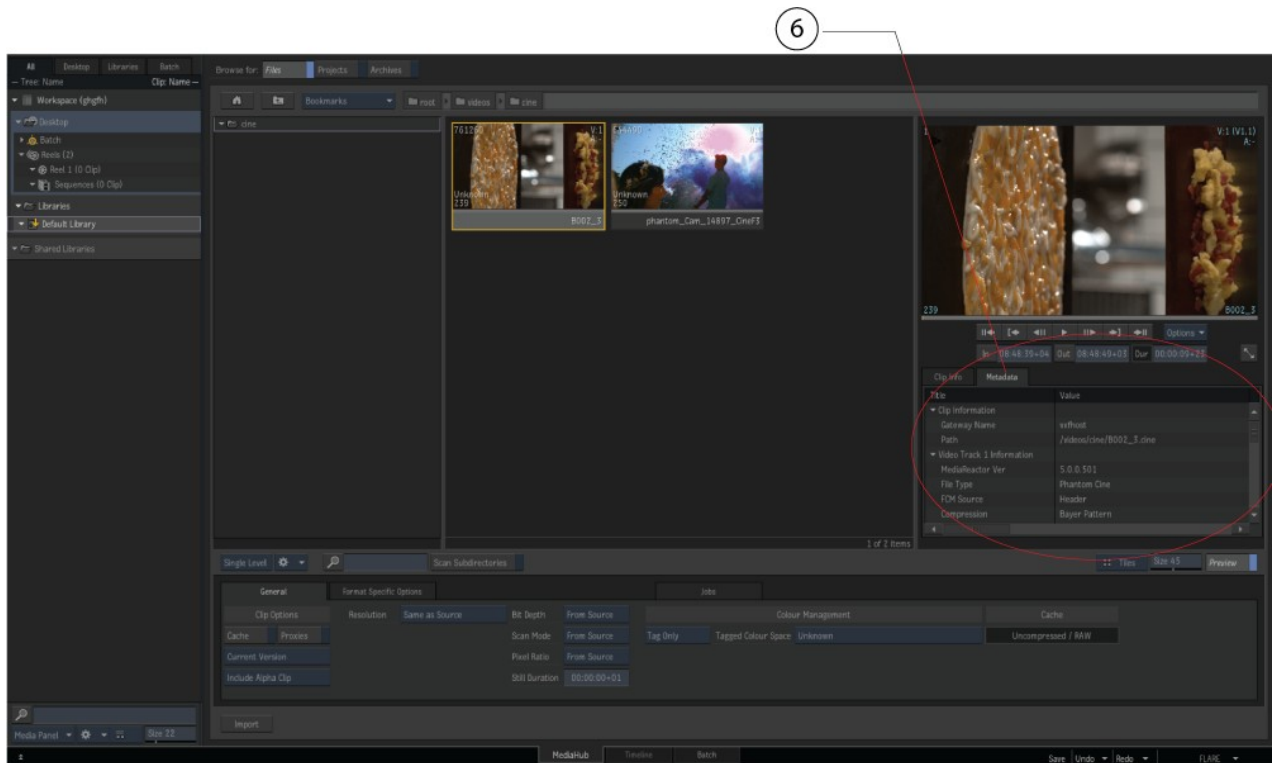
Once the clips are shown as above, a further check can be performed.

Clicking on the clip picon (4) loads the clip and its metadata into the panel on the right (5).

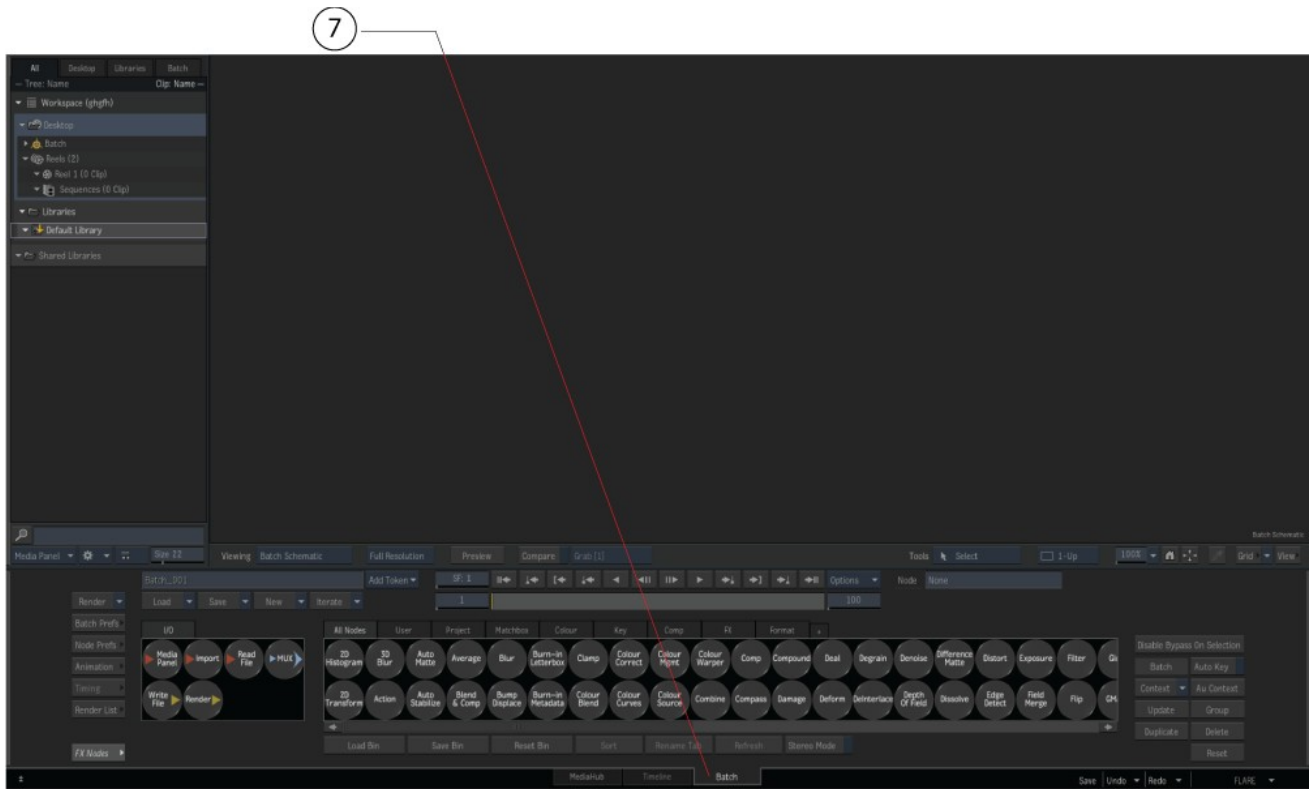


If you open a clip that requires the MediaReactor plugin, and the plugin has been properly installed and licensed, you will see in the Clip Info tab, that the Format specifies the MediaReactor plugin is being used.

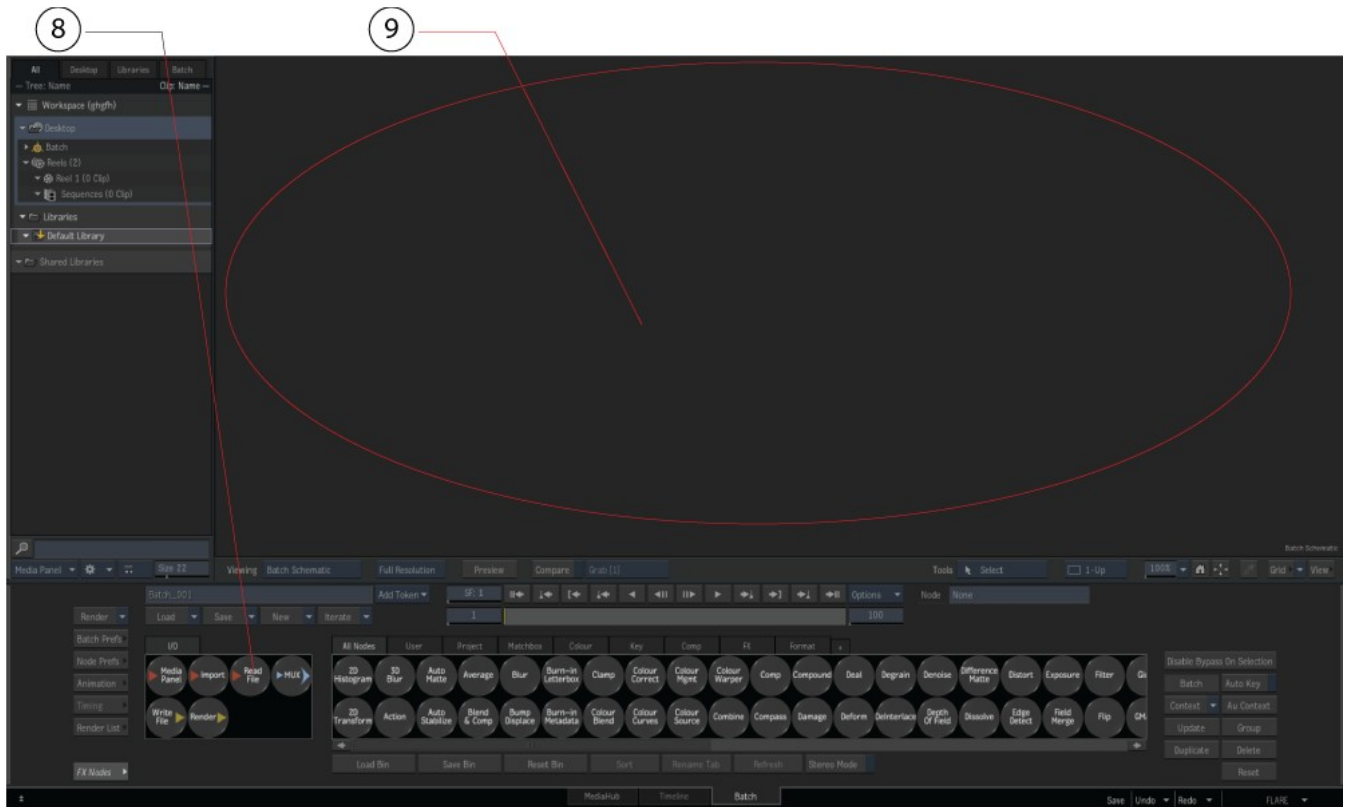
Clicking on the Metadata tab (6) should also display the MediaReactor version in the Video Track Information, if the clip was loaded using the MediaReactor plugin.



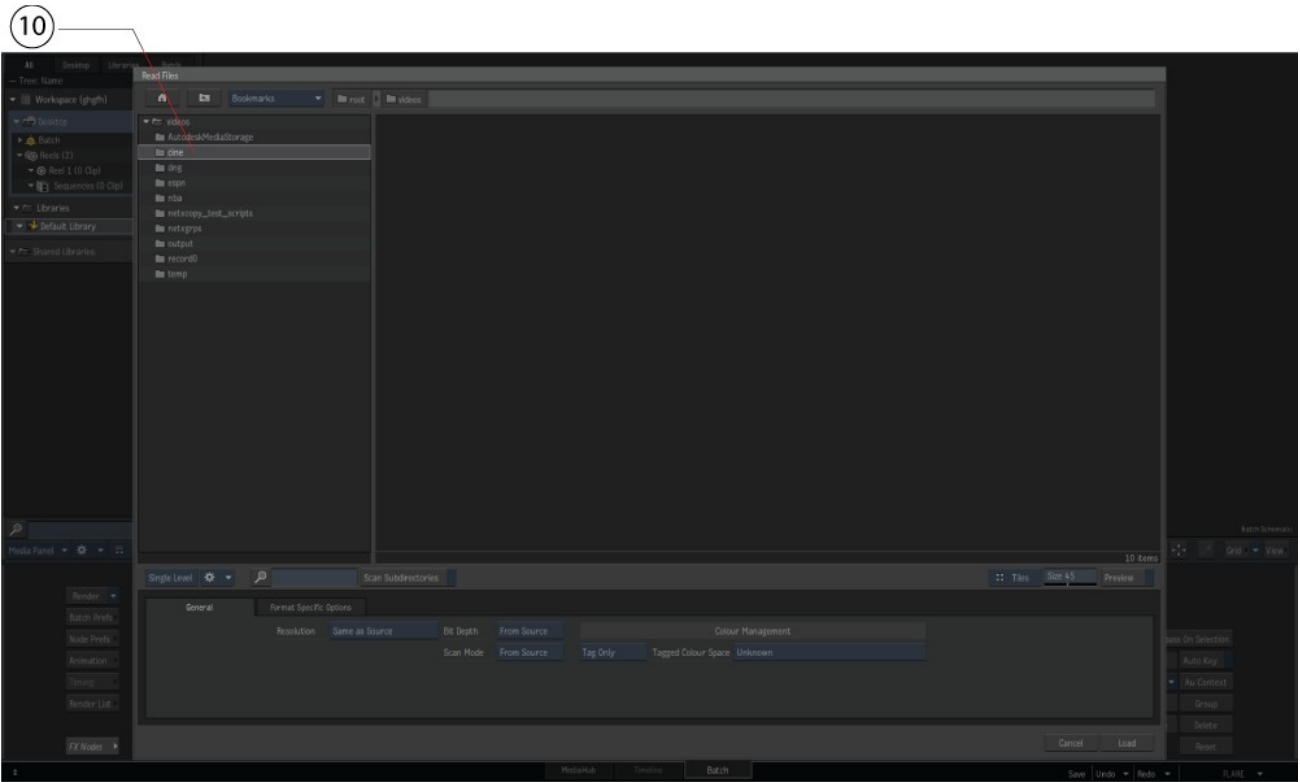
This information also shows up with the clip Batch function. Click on the Batch tab (7).



Grab the Read File button (8), and 'drag' it onto the media area (9), then release the mouse ('drop' it).

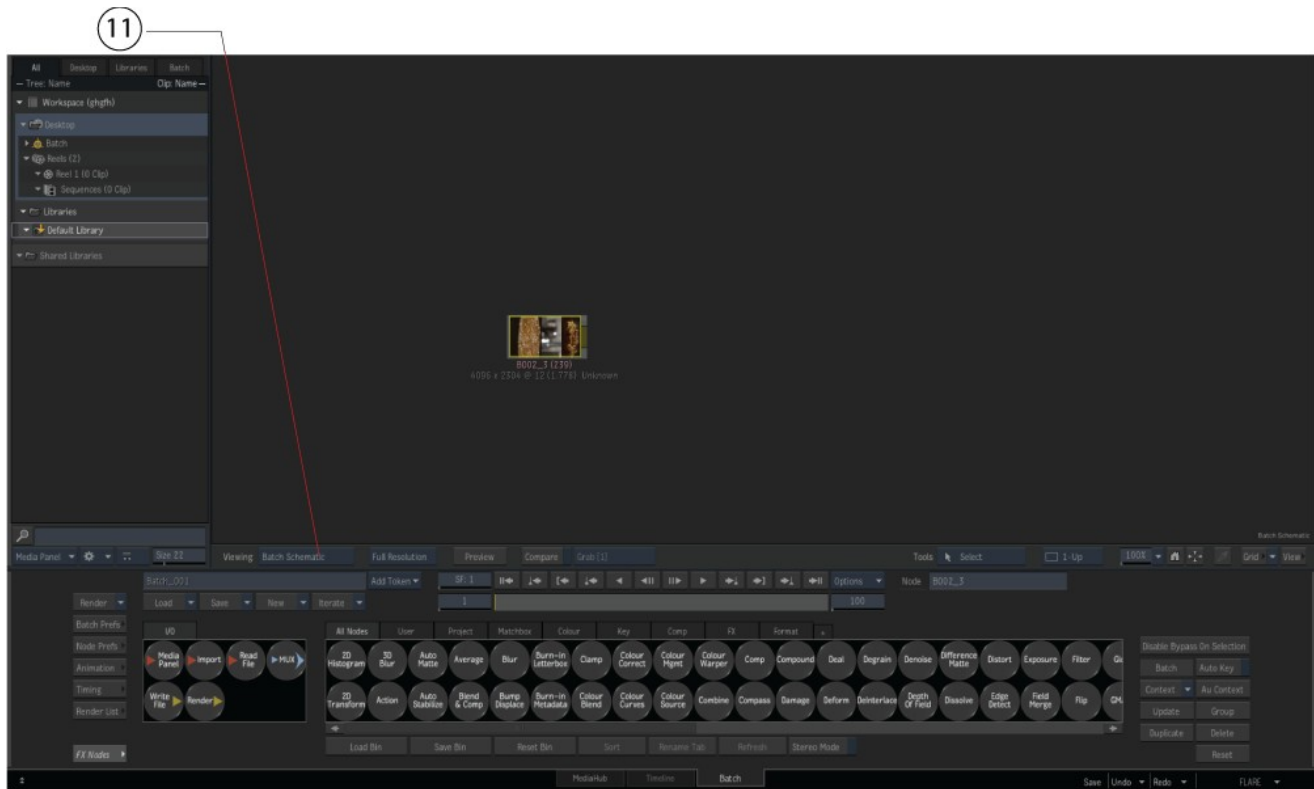


This opens the Read Files window.



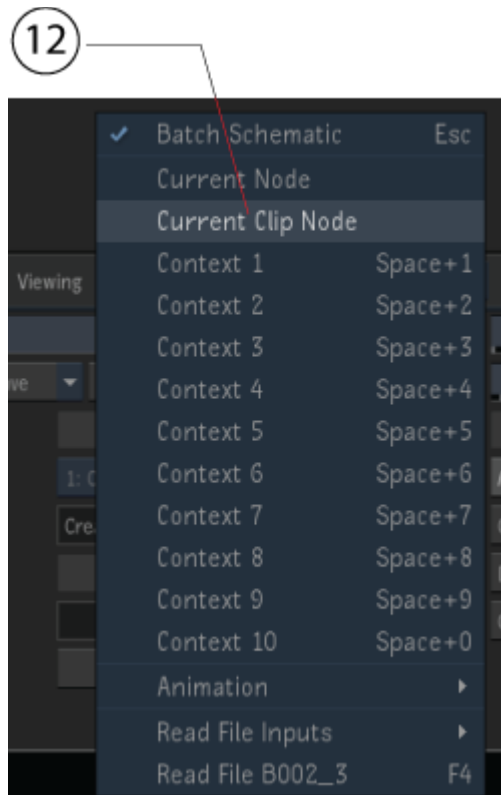
Navigate to the folder (10) and load the media as in the last example.

Click on the Viewing mode button (11).

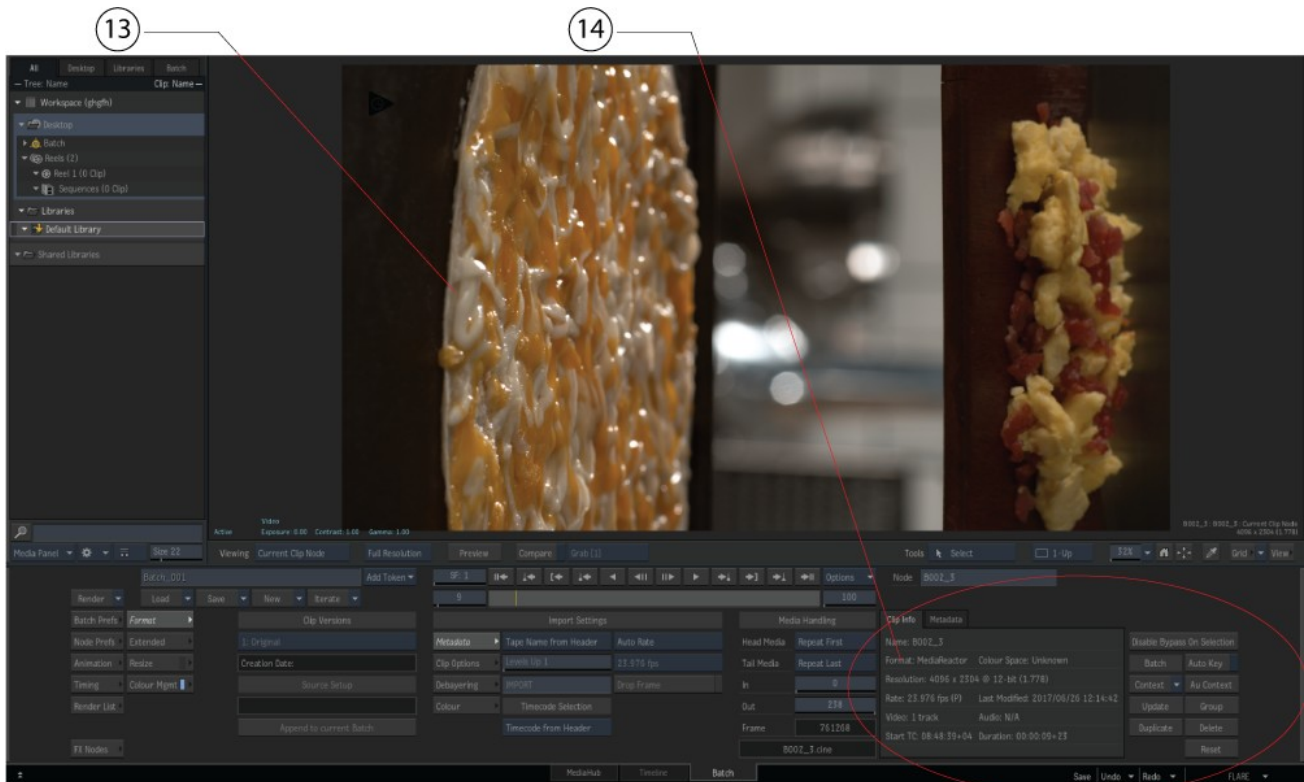


This displays the available viewing modes.

Select **Current Clip Node** (12).

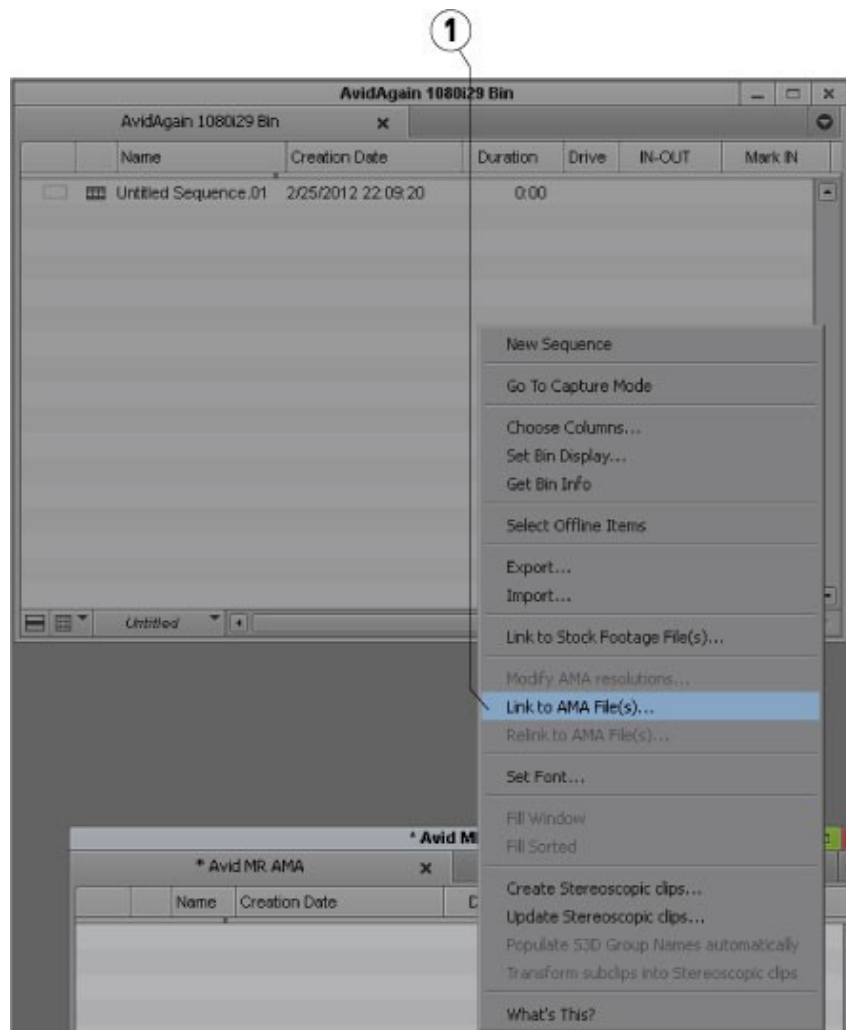


In this mode, the clip is loaded (13) and its clip info and metadata are displayed. Particularly, in the Format section of the Clip Info, MediaReactor (14) is specified.

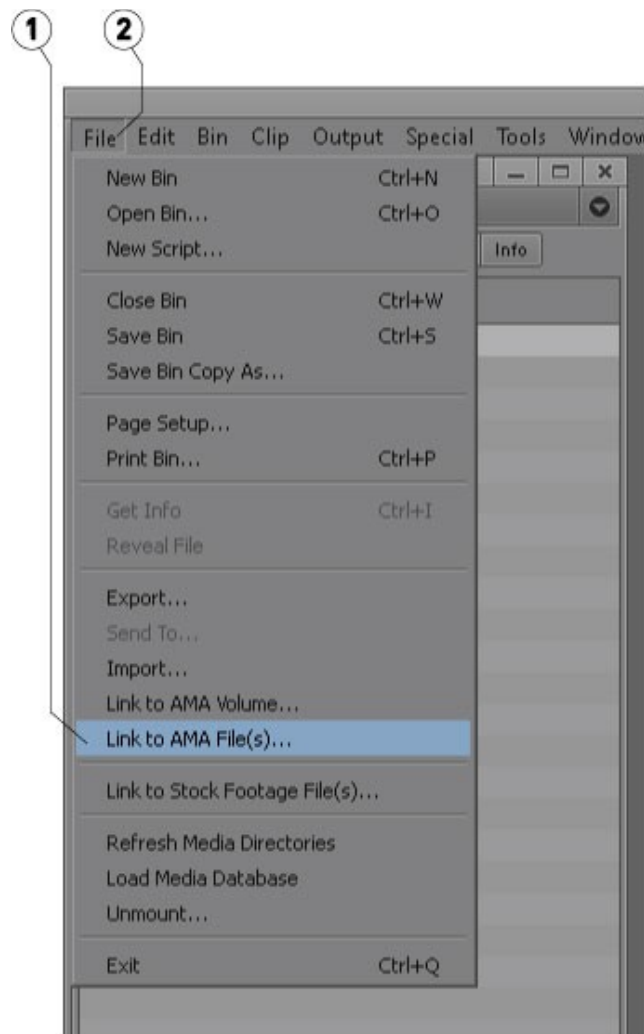


### 3.9 ...with Avid Media Composer 6 (Symphony, NewsCutter)

To bring a file into the editor:



Right click on the bin and select the **Link to AMA File(s)...** menu (1) and select the file.

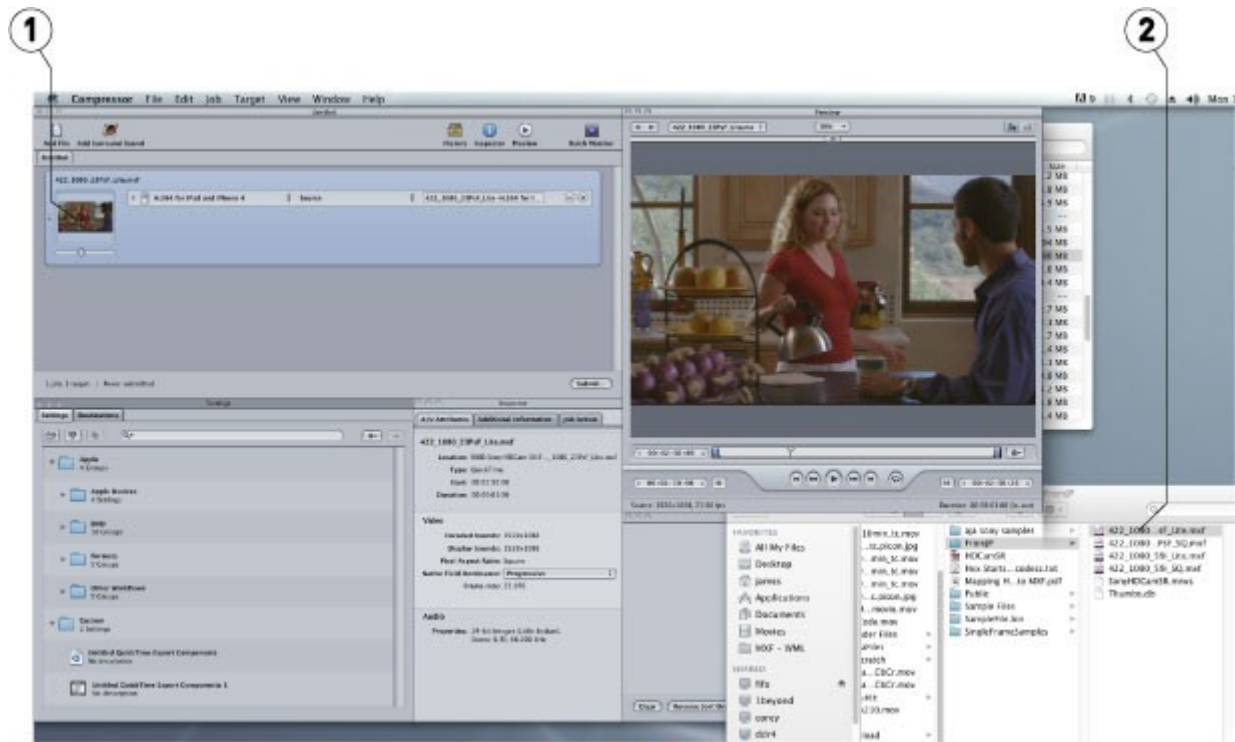


The **Link to AMA File(s)** menu (1) is also available under the **File** menu (2).

If your source files are on a network drive, you need enable access to the network drives in Media Composer. Open a **Console** window (menu **Tools | Console**) and type 'alldrives' without the quotes and hit **Return**. This only needs to be done once.

## 3.10 ...with Apple Compressor

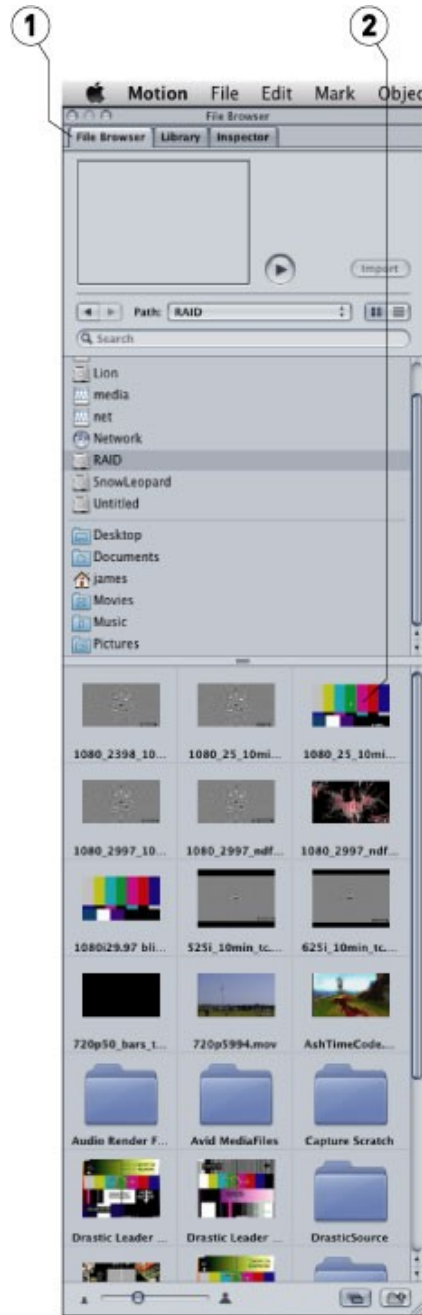
To convert from a MediaReactor Workstation file: Create an output profile.



Drag the source file (2) on top of the output profile and drop it (1).

## 3.11...with Apple Motion

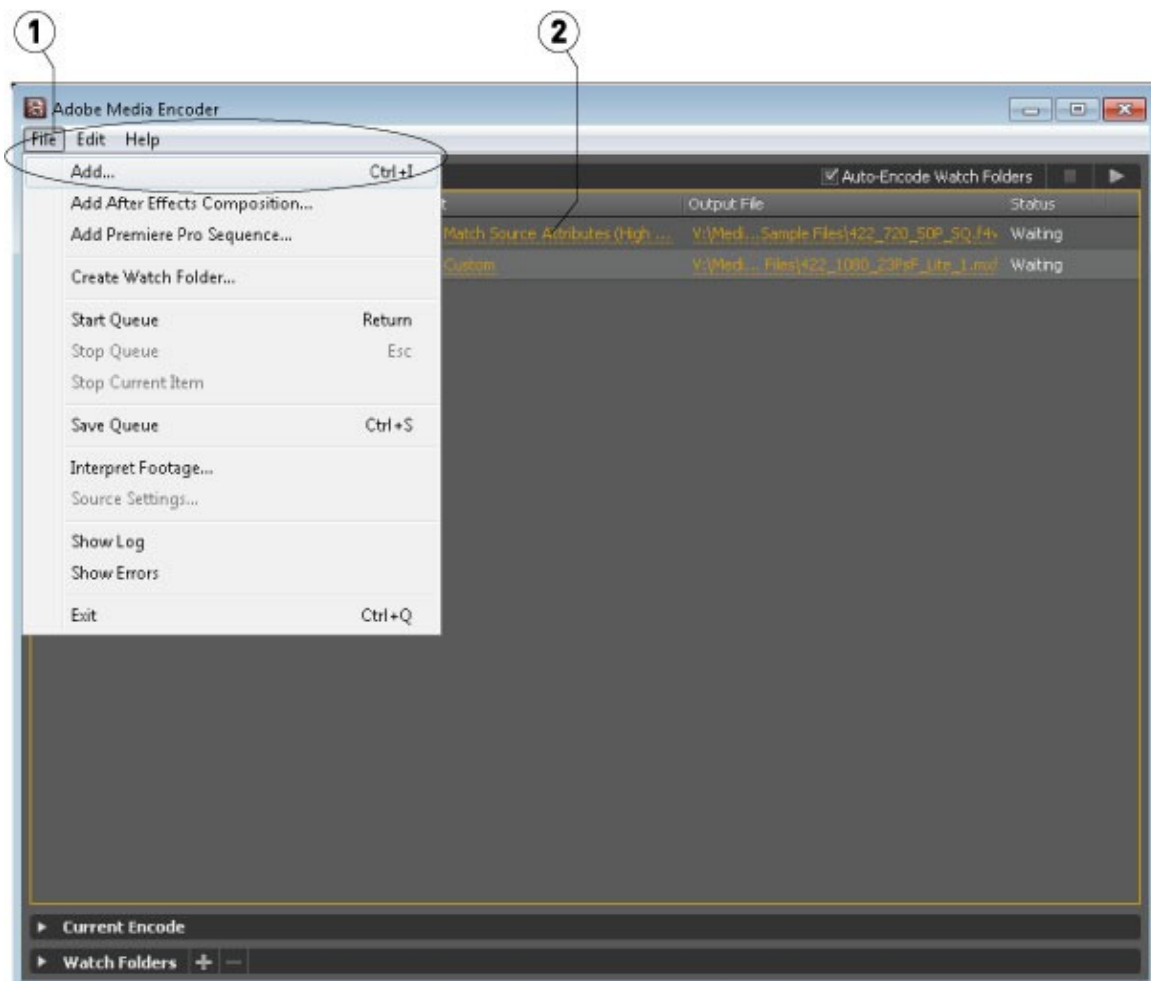
To use a MediaReactor Workstation file in Motion, use the built in **File Browser** (1) to find and select the file.



Supported files will appear as a picture of one of the frames (2) in the browser.

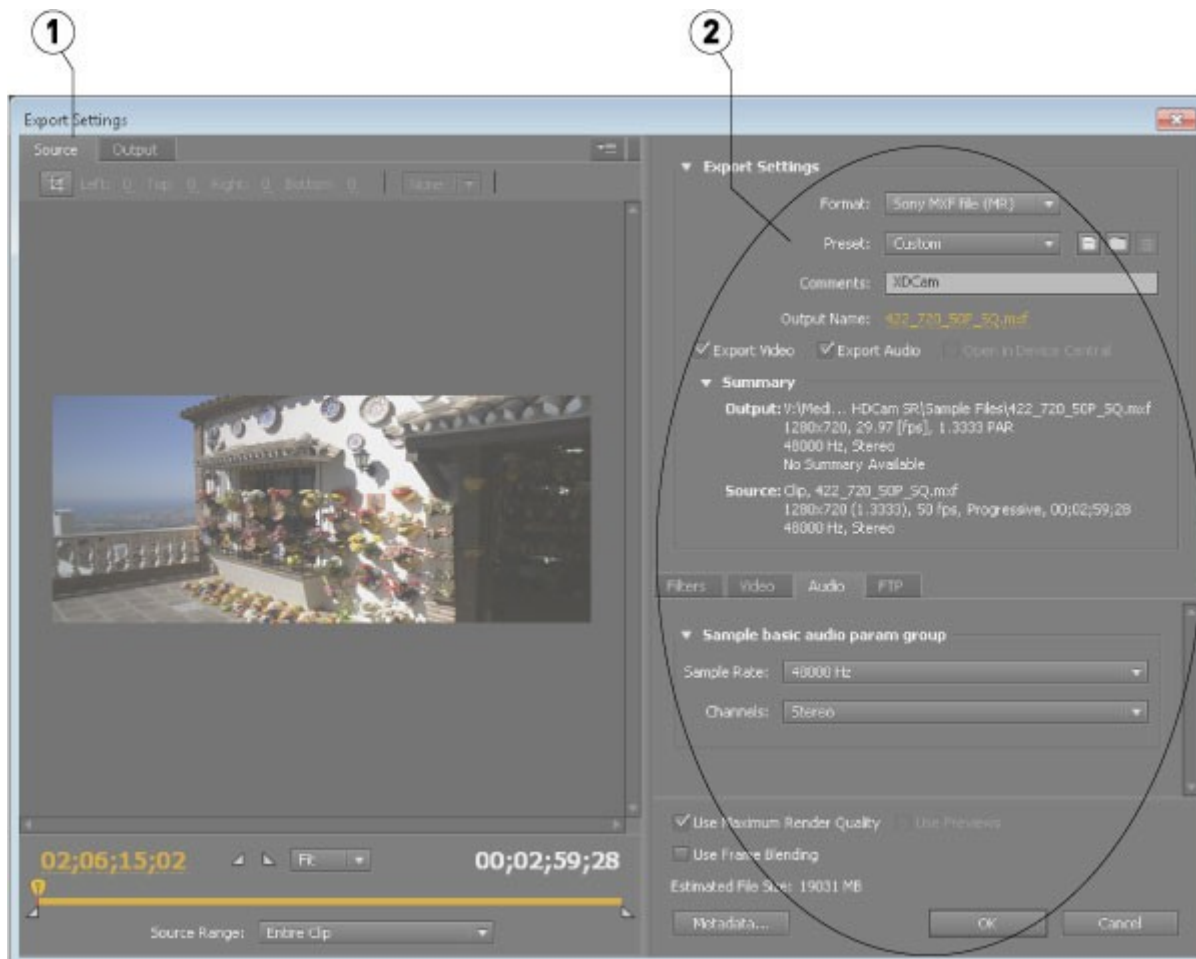
## 3.12 ...with Adobe Media Encoder

To add a MediaReactor Workstation file:



Use the menu **File | Add** (1), or drag and drop the file on the application. Click on the **Format** (2) or **Preset** column link. This opens the **Export** window.

The **Export** window opens with the selected file loaded (1). The **Export** window provides various controls (2) to allow the user to set the type of file that will be created during the export process.



Once all the parameters have been sent the user can press the **OK** button to close the **Export Settings** window. The file will have been updated in the queue, with the parameters that will be used to create the new file displayed.

### 3.13 ...with QuickTime Player

To open a file in QuickTime Player (free or full version), select the **File | Open File** menu. In Windows it is necessary to set the file filter to all (\*.\*) to see non mov/avi files.

To export a file from QuickTime Player (requires full version), select the menu **File | Export...** In the export dialog, select the output type and options. Type in the file name and file extension.

When outputting a file in QuickTime, a 0k file is created in the directory which we do not use.

## 3.14 ...with Windows Media Player

To open a file in Windows Media Player, select the **File | Open** menu, or drag and drop the file onto the Player

## 3.15 Live Event Editing in FCP7, Premiere and Media Composer

MediaReactor Workstation also provides advanced edit-while-recording of live events directly in your favorite editing software, when coupled with a live event compatible recorder.

To take advantage of this huge time saver, set up your compatible recording device (Drastic DDR, Net-X-Code Server, or 3rd party systems like XOS Hurricane Replay), begin recording and load the various camera files directly into Media Composer, Premiere or Final Cut Pro 7. All material recorded at that point is immediately available for editing, and as new material is recorded it automatically becomes available on the editor. Simply edit as normal, building packages, melds, internet content or new packages during the show, rather than having to wait and work long after everyone else has gone home.

## 3.16 Indiecaml MOV File Reader Configuration

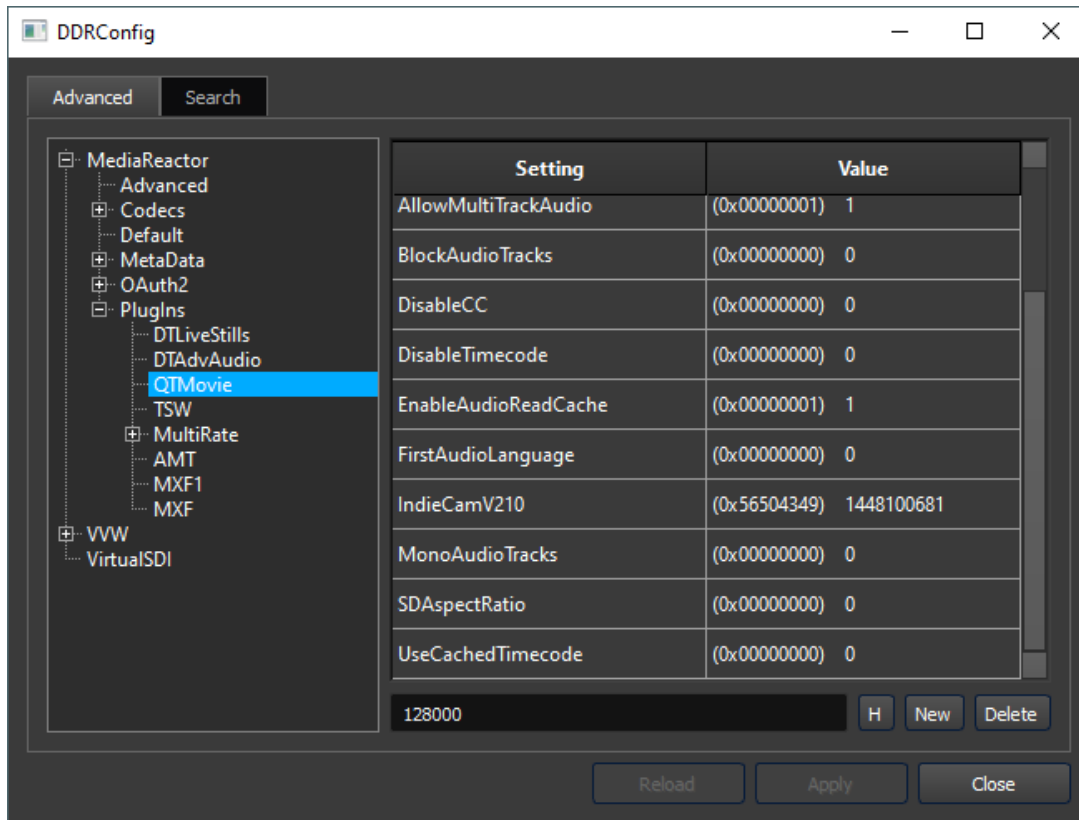
The Indiecaml cameras are small, light, HD and 2K recording RAW bayer pattern cameras. They provide the raw data via HD-SDI by embedding it into a SMPTE standard signal that can be recorded by most uncompressed recorders.

The RAW data cannot be automatically detected because the type marked by the recorder is SMPTE YCbCr 10 (v210 in general). To use these files in Assimilate SCRATCH and MediaReactor, the system must be set up to re-label these files.

### 3.16.1 Overriding IndieCam MOV Files' FourCC

The default fourcc (a four character code that describes the video format) in an MOV file will be 'v210'. This is the fourcc that describes the YCbCr 10 bit video that was captured from the HD-SDI output of the camera by the capture device. To have Assimilate SCRATCH or Lab properly interpret the raw data, it is necessary to override the fourcc with an Indiecaml-specific fourcc.

To set this up, run DDRConfig from the MRWS (MediaReactor Workstation) installation:



Under the MediaReactor/PlugIns/QTMovie branch there will be an IndieCamV210 entry. If this is changed to one of the supported IndieCam types, then all v210 files will be interpreted as that type of IndieCam file. The possible types are

- INDIECAM\_POV ICPV - Indiecama POV GBRG
  - 0x56504349
- INDIECAM\_RGGB2K IC12 - Indiecama RGGB 12bit-RAW
  - 0x32314349
- INDIECAM\_2KRAW IC2K - Indiecama GBRG 2k-RAW
  - 0x4B324349
- INDIECAM\_2IN1RAW IC2X - Indiecama GBRG 2in1-RAW
  - 0x58324349

Setting the IndieCamV210 entry to the hex values above (when the edit box is in hex) will cause all v210 files to be interpreted as that type of IndieCam raw file. This means, (1) you cannot use standard v210 files and, (2) you cannot mix 2K and POV files on the same timeline, as one of them will be interpreted incorrectly.

### 3.17 Multichannel Audio File Naming

Drastic products can support up to 16 mono (or 8 stereo pairs) of audio. There are file formats that are supported (like wave file extensible) that can contain all 16 channels in a single file, but these are not necessarily the most useful file types for production. In general, Drastic products prefer to store audio in a series of uncompressed, stereo files on disk in WAVE or AIFF format.

Here are the primary types for these uncompressed stereo files:

- AIFF 16 Bit Big Endian Stereo
- AIFF 20 Bit Big Endian Stereo
- AIFF 24 Bit Big Endian Stereo
- AIFF 32 Bit Big Endian Stereo
- WAVE 16 Bit Stereo
- WAVE 20 Bit Stereo
- WAVE 24 Bit Stereo
- WAVE 32 Bit Stereo
- WAVE 16 Bin Mono (for WMV/Matrox compatibility)

Regardless of the file type, the audio files will always have the same naming conventions. For the examples below, the '.video' is the video source file. The '.wav' could equally be '.aiff' files.

- BaseName.video (BaseName.avi, BaseName000001.dpx, etc)
- BaseName.wav (or BaseName.wav or BaseName.A12.wav)
- BaseName.A34.wav
- BaseName.A56.wav
- BaseName.A78.wav
- BaseName.A9A.wav (channels 9 and 10)
- BaseName.ABC.wav (channels 11 and 12)
- BaseName.ADE.wav (channels 13 and 14)
- BaseName.AFG.wav (channels 15 and 16)

- If the video file is a series of stills, then the base name is everything before the numeric count. For example:

- BaseName\_000001.tga
- BaseName\_.wav
- BaseName\_.A34.wav

- The correct naming for a group of mono files is:

- BaseName.video
- BaseName.a1.wav
- BaseName.a2.wav
- BaseName.a3.wav

BaseName.a4.wav  
BaseName.a5.wav  
BaseName.a6.wav  
BaseName.a7.wav  
BaseName.a8.wav  
BaseName.a9.wav  
BaseName.aa.wav (channel 10)  
BaseName.ab.wav (channel 11)  
BaseName.ac.wav (channel 12)  
BaseName.ad.wav (channel 13)  
BaseName.ae.wav (channel 14)  
BaseName.af.wav (channel 15)  
BaseName.ag.wav (channel 16)

Stereo pairs may be missing, but mono files may not. Any missing stereo channels will be filled with silence

There are a couple of other supported naming conventions which are there purely to support third party software packages. These include:

BaseName.video  
BaseName.aa.wav (one stereo pair only)

BaseName.video  
BaseName\_1.wav (dual mono files)  
BaseName\_2.wav (one stereo pair total)

BaseName.video  
BaseName.1.wav (dual mono files)  
BaseName.2.wav (one stereo pair total)

BaseName.video  
BaseName\_R.wav (dual mono files)  
BaseName\_L.wav (one stereo pair total)

BaseName.video  
BaseName.r.wav (dual mono files)  
BaseName.l.wav (one stereo pair total)

BaseName.video  
BaseName.wav (these are all mono wave files)  
BaseName\_A2.wav  
BaseName\_A3.wav

BaseName\_A4.wav  
BaseName\_A5.wav  
BaseName\_A6.wav  
BaseName\_A7.wav  
BaseName\_A8.wav

BaseName.video  
audio12.wav  
audio34.wav  
audio56.wav  
audio78.wav  
BaseName.video  
default.wav

### 3.18 Closed Caption Format Support

Drastic products generally support closed captions. Video I/O products can capture and play back closed caption information, depending on the capability of the software and the version. MediaReactor can convert closed caption formats along with the video and audio files.

Here is the list of closed caption formats supported by Drastic products:

- MPEG-2 'user' CC (read)
- MXF SMPTE 436 (read/write)
- MXF Avid embedded CC (read)
- MCC files side bar MacCaption/PC-Caption (read/write)
- SCC files side bar MacCaption/PC-Caption (read/write)
- MOV SD/HD CC tracks (read, and write with a special setup)

MediaReactor fully supports reading and writing the closed caption formats above. SCC and MCC are always written, along with other formats when available.

## 3.19 macOS Enabling legacy codecs for more output choices in QuickTime 7.4 and greater

### Symptoms

With QuickTime 7.4 or later installed, some older encoders (codecs) may appear to be missing export options in applications that export QuickTime files, such as Final Cut Pro or Compressor or from the export options in QuickTime Player Pro.

### Resolution

Take the following steps to enable additional encoders:

Choose Apple menu > System Preferences.

Choose View > QuickTime.

Click the Advanced button.

Select the checkbox next to Show legacy encoders.

## 3.20 macOS Using MediaReactor Workstation as a source reader for your own (or other) programs

MediaReactor Workstation provides a number of different ways to read supported file and compression types into your own programs. Here is a list of publicly available interfaces:

- **QuickTime Interface** - MRWS provides a series of components to QuickTime including file readers, compressors, decompressors and low level data handlers that allow any program to read all the available formats through QuickTime as though they were normal MOV files
- **DTMediaRead Interface** - This interface is a direct reader that requires an OEM agreement with Drastic.
- **MkRefMov** - MRWS includes a command line program called MkRefMov (Make Reference Movie). This program can make a reference movie (a small pointer only movie) for most supported files that can be read by any program supporting QuickTime MOV files. This includes new programs like Final Cut Pro X that don't normally support formats like MXF variants from Omneon, Pinnacle, Grass Valley and Avid.

## 3.21 Windows Using MediaReactor Workstation as a source reader for your own (or other) programs

MediaReactor Workstation provides a number of different ways to read supported file and compression types into your own programs. Here are a list of publicly available interfaces:

- **DirectShow** - MRWS installs a DirectShow Filter called 'Drastic MediaReactor File Source'. This can be opened with any supported file to provide audio and video to a DirectShow filter graph
- **QuickTime Interface** - MRWS provides a series of components to QuickTime including file readers, compressors, decompressors and low level data handlers that allow any program to read all the available formats through QuickTime as though they were normal MOV files
- **DTMediaRead Interface** - This interface is a direct reader that requires an OEM agreement with Drastic. See the [DTMediaRead SDK page](#) for more information.
- **MkRefMov** - MRWS includes a command line program called MkRefMov (Make Reference Movie). This program can make a reference movie (a small pointer only movie) for most supported files that can be read by any program supporting QuickTime MOV files. This includes new programs like Final Cut Pro X that don't normally support formats like MXF variants from Omneon, Pinnacle, Grass Valley and Avid.

## 3.22 mkRtIndex - Make An rtin (Real Time Index) File

Usage: mkRtIndex <sourcefile> [-v]

NOTE: parameters must be in order

- <sourcefile> File to be indexed.
- -v Optional, verify rtIndex instead of create.

## 3.23 MRMetaData - Extract a File's Metadata Information

mrmetadata - Extract metadata information from GXF, MXF, AVI, etc, by Drastic Technologies (www.drastictech.com)

Version: 8.0.154

(c)copyright 1995-2026 Drastic Technologies Ltd. All rights reserved.

Usage: mrmetadata.exe -i <sourcefile> -t <targetfile> [-qlx -r <01:00:00:00> -R <-00:30:00:00> -j # -k <picon.jpg> -e # -c # -a # -o <outputdir> -f # -s # -X -T -t # -n 1 -p # -n # -h # -M # -w <output.wav> -v <outputvideo.raw> -m <reference.mov>]

-i <sourcefile> File to be referenced

Optional parameters:

-t <targetfile> File and path to write to  
-q Quiet mode.  
-l Loud mode.  
-x Export metadata XMLS  
-r 01:00:00:00 Override timecode start  
-R -00:30:00:00 Offset timecodes (eg. subtract half an hour)  
-0 Zero based timecode output  
-1 Mark this first timecode in file  
-j # Create a JPEG picon from frame #  
-k <picon.jpg> Filename for JPEG picon frame  
-e # Extract a JPEG picon for every # frame  
-h # eMAM source clip ID  
-s Force CC in video stream  
-X Extract CC from line 21 (SD only)  
-M # CC channel to extract (def: 1)  
-C Use 608 compatibility bytes (not 708)  
-c # Convert closed captioning to  
0=MCC, 1=AAF, 2=TEXT, 3=SCC, 4=SCCDF, 5=N0, 6=SCCAUTO,  
100=Avid Caption, 101=Belle Nuit Subtitler,  
102=CapMaker Plus, 103=Cheetah Caption, 104=Csv, 105=Csv2, 106=Csv3,  
107=D-Cine SMPTE 2007, 108=D-Cine SMPTE 2010,  
109=EBU STL, 110=Final Cut Pro Xml,  
111=Final Cut Xml Gap, 112=Final Cut Pro X Xml,  
113=Final Cut Pro XCM, 114=Flash Xml,  
115=iTunes Timed Text, 116=JSON, 117=JSON Type 2,  
118=JSON Type 3, 119=JSON Type 4, 120=QuickTime text,  
121=SAMI, 122=SAMI modern, 123=Scenarist, 124=DVD\_SCC,  
125=DVD\_SCCDF, 126=SoftNi sub, 127=Sony DVDArchitect,  
128=Sony DVD Exp dur, 129=Sony DVD line/dur,  
130=Sony DVD Tabs, 131=SubRip, 132=Sub Station Alpha,  
133=Swift V2, 134=Timed Text 1.0, 135=TT 2006-04 .dfxp,  
136=TT 2006-04 .html, 137=TT 2006-04 .xml, 138=WebVTT,  
139=YT Annotations, 140=YouTube sbv,  
141=YouTube Transcript, 142=D-Cinema interop,  
143=WebVTT-webvtt, 144=SMPTE-TT 2052,  
145=Netflix Timed Text,  
-f # Force output frame rate (23, 24, 25, 29, 30)  
-g # Compensate conversion (2324, 2423, 2930, 3029)  
-o <out-dir> CC output directory  
-a # Interpret input file using encoding  
0=Auto, 1=UTF-8, 2=UTF-16, 3=IBM-850, 4=IBM-860, 5=Windows-1252  
-p # Detect scene changes, # = threshold

- d #            Scene change output type, 0-XML, 1-ALE, 2-EDL
- n #            First channel of source audio for the wave file (0,2,4)
- w <output.wav>    Extract audio to a wave file
- v <outputvideo.raw> Extract video to raw stream file
- T            Time reading the file file
- B            AnnexB convert mp4 to marker

### 3.24        MRAnalyze - Use Standard PSNR/(MS)SSIM to Compare an Original and Converted File

mranalyze - Video/Audio analysis tool ([www.drastictech.com](http://www.drastictech.com))

Version: 8.0.154

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Usage: mranalyze.exe -a <source a> -b <source b> -q -p # -s # -m # -d # -g # -f # -l # -x # -n # [-o <targetfile>]

- a <source a>    Original file.
- b <source b>    Compressed file.
- q            Quiet (no output) must be first argument.
- p #            PSNR type
- s #            SSIM type (0-Square, 1=Gaussian)
- m #            MS-SSIM type
- d <8|16>        8 or 16 bit ycbcr comparison (def 8)
- g #            Global checks (0-none, 1-basic, 2-advanced)
- f #            First frame to check
- l #            Last frame to check
- x #            B source first frame to check
- n #            Next frame distance (def 1 = every frame)
- o [targetfile] Optional, csv or db output name (or '-o i' to generate the file name)

## 3.25 Accessing S3/HTTP/HTTPS Assets with .STREAM Files

Normally, Adobe Premiere, After Effects, Media Encoder, etc. require a physical file to be located on a standard file system, shared or local. MediaReactor Lite (and MediaReactor Workstation) allow all these software products to edit files directly from S3/HTTP/HTTPS file stores. The magic is performed by tiny local text files with the extension .stream. These are encrypted or unencrypted descriptions of the file's actual location, saved on a local or accessible network storage for Adobe to use.

### 3.25.1 Direct Access to Cloud Assets

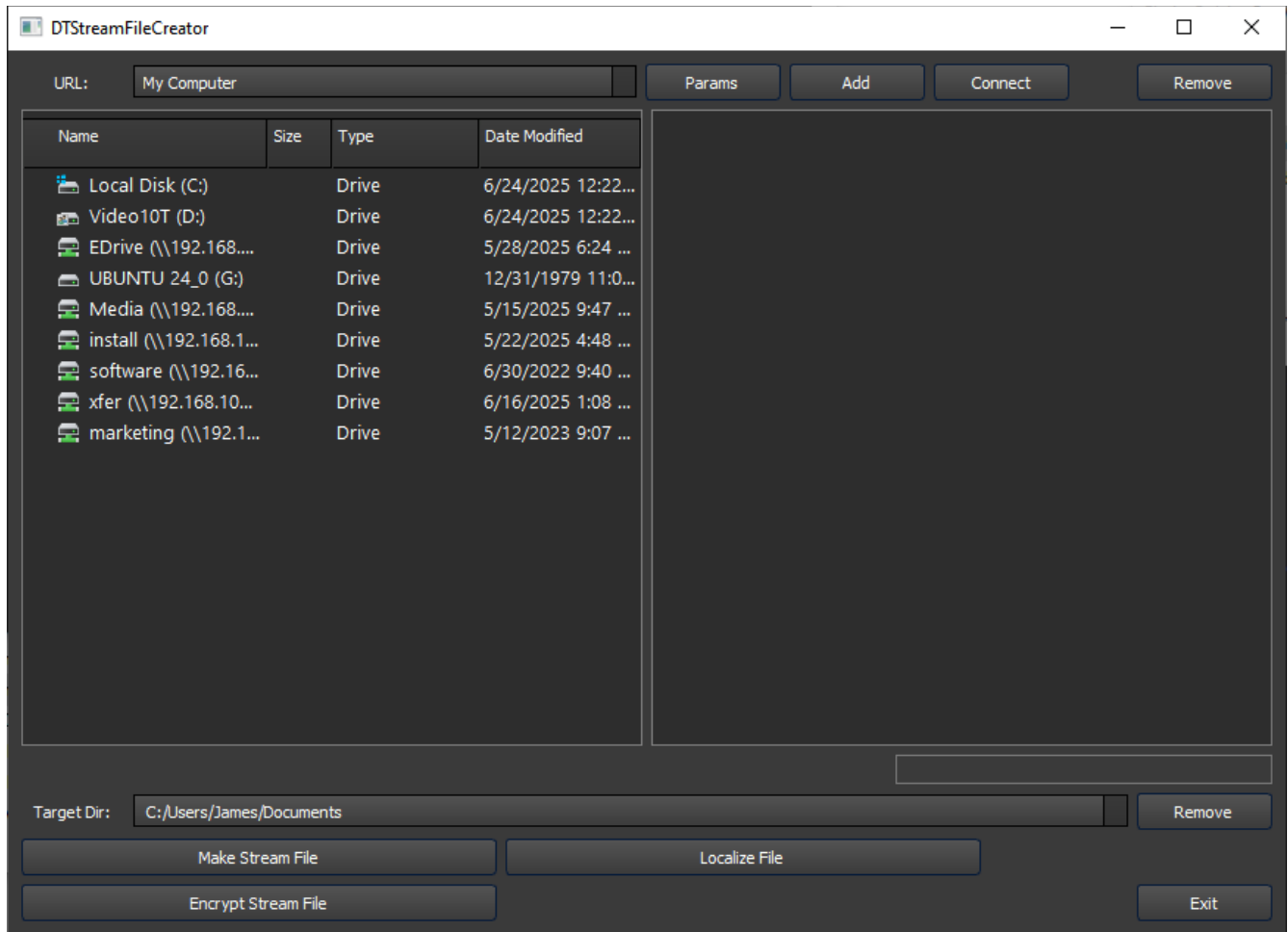
Adobe Premiere uses files, and cannot see ephemeral assets, such as streams on an S3 or HTTPS provider. Typically video files are into the hundred of MBs, sometimes GBs, so there is both a delay, and an added cost, to download a file from S3 before opening a local copy (and to upload it after saving).

Other companies have used proxy files with subsequent conform to mitigate the delay (and cost) editors face using cloud storage solutions. Drastic lets you access these files directly, with frame accurate time code, closed captions, and metadata intact. Now you can fully realize the advantages of a cloud based content creation workflow with immediate access to your media. Simply pass video data to and from S3 as required rather than dealing only with the local file system.

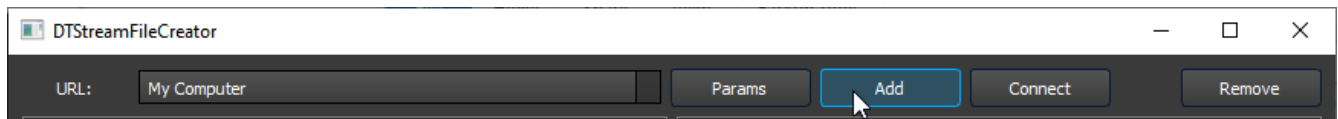
Drastic software products support direct access to cloud resources using HTTP, HTTPS, S3, and other file sharing methods. For the most part, the path to these files is a URL (e.g. <https://someserver/somefile>). Most software editing packages including Adobe's require that the file be directly accessible on local or network storage to be used. MediaReactor uses ".stream" files to bridge this gap and allow Adobe to read the file directly.

### 3.25.2 DTStreamFileCreator for S3 Access

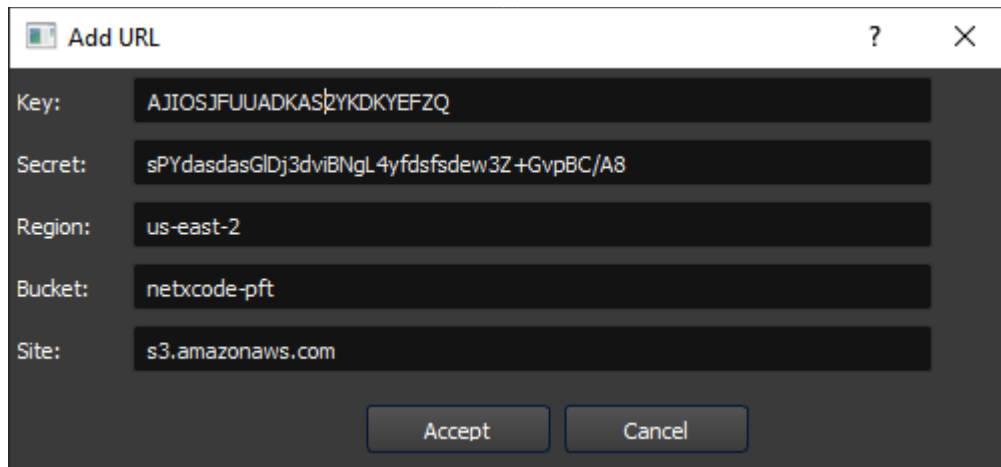
Run **DTStreamFileCreator**. It will be located in the same folder as the Drastic software it is being used with, e.g. C:\Program Files\MediaReactor\DTStreamFileCreator.exe.



Click the **Add** button to add a new S3 site.



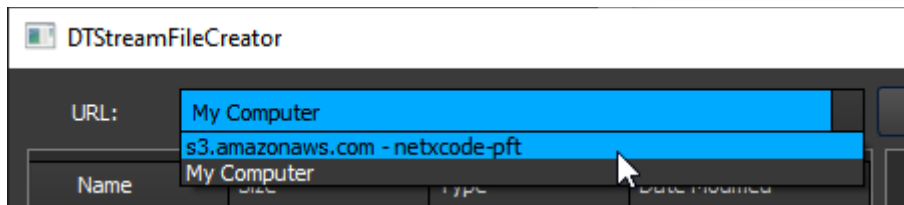
This opens the **Add URL** window, where you can enter the details of the S3 assets.



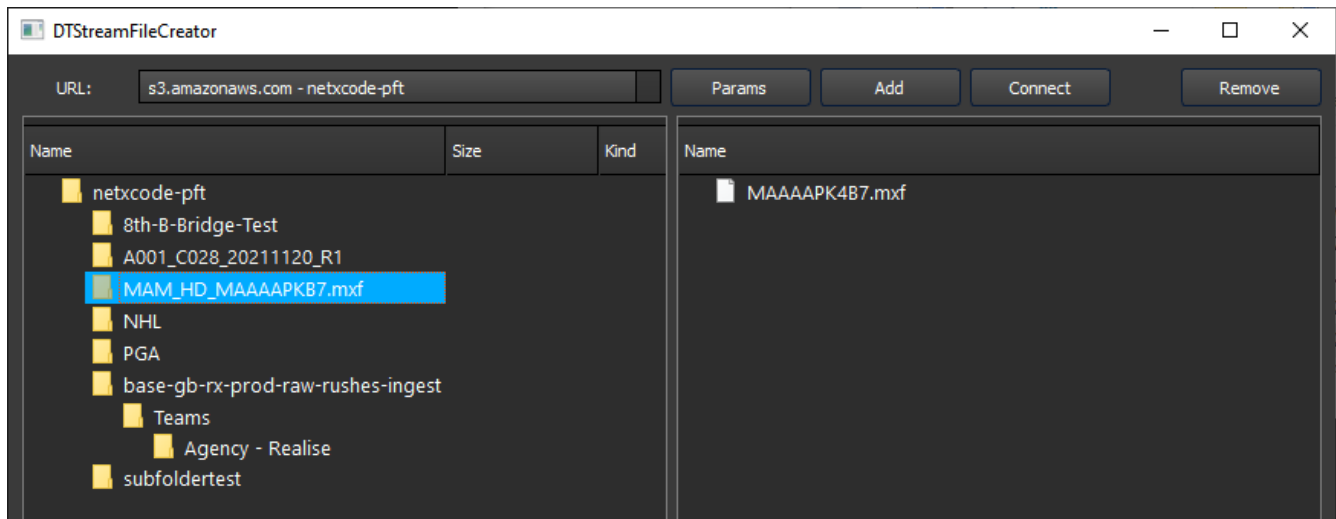
The parameters that need to be specified are:

- Key
- Secret
- Region
- Bucket
- Site

Once all the details have been entered, press the **Accept** button to create the .stream file. It will then appear in the dropdown, available for selection.



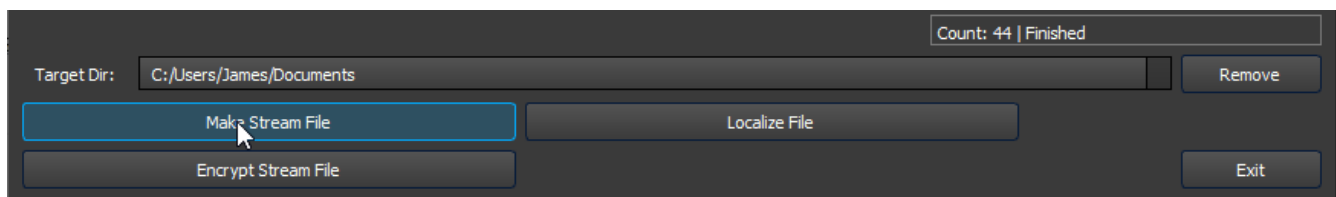
Select it, and click **Connect**. A properly formed .stream file will then show you the folder tree structure for the S3 assets you have specified.



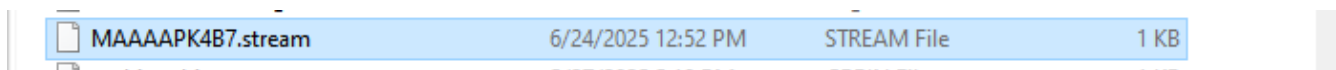
Select a file, and you will then be able to perform one of three actions.

### 3.25.2.1 *Make Stream File*

**Make Stream File** - the most common workflow. Make a .stream file to use for Adobe S3 access.



The .stream file is quite small, typically weighing in at 1KB.



Inside the file will be something like: `s3://AKdsadasddsadsaFZQ:dSCPYYlwhlJGafsfafsfavpBC/A8@s3.amazonaws.com/netxcode-pft/MAAAAAPK4B77.mxf` (this is not a real link btw)

### 3.25.2.2 *Localize File*

**Localize File** - copy a file to your target directory

### 3.25.2.3 *Encrypt Stream*

**Encrypt Stream** - make a .stream file as above, but also encrypt its contents so its details cannot be intercepted. Instead of a file with the actual data (which could be pilfered), its contents would look more like:

```
:xa0UBaxtGQDQPPBk9cDZxP2UhZj1gOBxSAVwNTxZNCUddGGkqeyB6EmAOZSdpD0AmGHILciF9  
CVFwHzFcFlpyNAJbMmlBYE8PNXYBNx95HHQEYAJuF2tVJ1okH2QXdBRuG2QdLUM6bmAPTgJf  
FFQORQNKAkkSVRojAn8WYI4HUwRSC0ITPGJleApSFQ==
```

Direct access without a rootkey.csv is also supported by providing the ID:SecretKey on the URL before the site. The two parts must be separated by a colon (:) and the site name must be separated with an at sign (@): https://<id>:<secret>@s3.amazon.com/<bucket>/<file>.

```
https://MEOWJDNGFSUIGNWCAT:djJFASTjfowljgwowf8473sdjhH@s3.amazonaws.com/netxcode-  
pft/sourceABR.mp4
```

For more information on setting S3 and Object Storage access, please see

[Setting up Amazon S3 AWS Access](#)

## 4 Command Line Utilities

### 4.1 mrcmd

mrcmd - MediaReactor Command Line Utility, by Drastic Technologies ([www.drastictech.com](http://www.drastictech.com))

Version: 8.0.154

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Usage: mrcmd.exe

- I <inputname> = Input file path/name (required)
- O <outputname> = Output file path/name (required)
- s # = Start frame (def: 0)
- e # = End frame (def: length of input)
- S <00:00:00:00> = Start timecode (def: first timecode in file)
- E <01:00:00:00> = End timecode (def: last timecode in file plus one)
- t = Allow transcode stream (def: convert stream)
- T = Transcode to matched stream
- x # = Horizontal size >1 (def: same as input)
- y # = Vertical size >1 (def: same as input)
- b # = Bit depth 8/16/24/32 (def: optimal)
- q # = Video quality 0..10000 (def: highest)
- d # = Video data rate >=0 (def: highest)
- k # = Key frame distance (def: 15)
- M = Separate audio files (def: internal)
- m = Dual mono audio files (def: stereo, requires -s)
- r # = Audio frequency/rate (def: same as input)
- a # = Audio sample size 8/16 (def: same as input)
- c # = Audio channels 1/2/4/5/6/8 (def: same as input)
- p # = Audio quality 0..10000 (def: highest)
- i # = Output video file ID (from codeclist.txt)
- f <filetype> = Output video file type - AVI/MOV/OMF (def: auto sense)
- F <filetype> = Output audio file type - WAV/AIF/AU (def: auto sense, requires -T)
- v <codec> = Output video codec (text) - MMES/2yuv/DVSD (def: RGB uncompressed)
- n # = Output video codec (numeric hex) - 88000001/1/a/f
- A = Disable audio output (def: depends on input)
- V = Disable video output (def: depends on input)
- B = Display byte range of source
- P <profile> = MediaReactor profile file path/name (optional)

To get a list of all the file type available in the file codeclist.txt, use

mrcmd -all

To get a list of the codecs for a file type, use

mrcmd #

## 4.2 mkrtindex

mkRtIndex - Make an rtin (RTIndex) file for a MOV, MXF, AVI, etc, by Drastic Technologies ([www.drastic.tv](http://www.drastic.tv))

Usage: mkRtIndex <sourcefile> [-v]

parameters must be in order

<sourcefile> File to be indexed.

-v Optional, verify rtIndex instead of create.

## 4.3 mrmetadata

mrmetadata - Extract metadata information from GXF, MXF, AVI, etc, by Drastic Technologies  
(www.drastictech.com)

Version: 8.0.154

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Usage: mrmetadata.exe -i <sourcefile> -t <targetfile> [-qlx -r <01:00:00:00> -R <-00:30:00:00> -j # -k <picon.jpg> -e # -c # -a # -o <outputdir> -f # -s # -X -T -t # -n 1 -p # -n # -h # -M # -w <output.wav> -v <outputvideo.raw> -m <reference.mov>]

-i <sourcefile> File to be referenced

Optional paramaters:

-t <targetfile> File and path to write to

-q Quiet mode.

-l Loud mode.

-x Export metadata XMLS

-r 01:00:00:00 Override timecode start

-R -00:30:00:00 Offset timecodes (eg. subtract half an hour)

-0 Zero based timecode output

-1 Mark this first timecode in file

-j # Create a JPEG picon from frame #

-k <picon.jpg> Filename for JPEG picon frame

-e # Extract a JPEG picon for every # frame

-h # eMAM source clip ID

-s Force CC in video stream

-X Extract CC from line 21 (SD only)

-M # CC channel to extract (def: 1)

-C Use 608 compatibility bytes (not 708)

-c # Convert closed captioning to

0=MCC, 1=AAF, 2=TEXT, 3=SCC, 4=SCCDF, 5=N0, 6=SCCAUTO,

100=Avid Caption, 101=Belle Nuit Subtitler,

102=CapMaker Plus, 103=Cheetah Caption, 104=Csv, 105=Csv2, 106=Csv3,

107=D-Cine SMPTE 2007, 108=D-Cine SMPTE 2010,

109=EBU STL, 110=Final Cut Pro Xml,

111=Final Cut Xml Gap, 112=Final Cut Pro X Xml,

113=Final Cut Pro XCM, 114=Flash Xml,

115=iTunes Timed Text, 116=JSON, 117=JSON Type 2,

118=JSON Type 3, 119=JSON Type 4, 120=QuickTime text,

121=SAMI, 122=SAMI modern, 123=Scenarist, 124=DVD\_SCC,

125=DVD\_SCCDF, 126=SoftNi sub, 127=Sony DVDArchitect,

128=Sony DVD Exp dur, 129=Sony DVD line/dur,

130=Sony DVD Tabs, 131=SubRip, 132=Sub Station Alpha,

133=Swift V2, 134=Timed Text 1.0, 135=TT 2006-04 .dfxp,  
 136=TT 2006-04 .html, 137=TT 2006-04 .xml, 138=WebVTT,  
 139=YT Annotations, 140=YouTube sbv,  
 141=YouTube Transcript, 142=D-Cinema interop,  
 143=WebVTT-webvtt, 144=SMPTE-TT 2052,  
 145=Netflix Timed Text,

-f # Force output frame rate (23, 24, 25, 29, 30)  
 -g # Compensate conversion (2324, 2423, 2930, 3029)  
 -o <out-dir> CC output directory  
 -a # Interpret input file using encoding  
 0=Auto, 1=UTF-8, 2=UTF-16, 3=IBM-850, 4=IBM-860, 5=Windows-1252  
 -p # Detect scene changes, # = threshold  
 -d # Scene change output type, 0-XML, 1-ALE, 2-EDL  
 -n # First channel of source audio for the wave file (0,2,4)  
 -w <output.wav> Extract audio to a wave file  
 -v <outputvideo.raw>Extract video to raw stream file  
 -T Time reading the file file  
 -B AnnexB convert mp4 to marker

## 4.4 mranalyze

mranalyze - Video/Audio analysis tool ([www.drastictech.com](http://www.drastictech.com))

Version: 8.0.154

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Usage: mranalyze.exe -a <source a> -b <source b> -q -p # -s # -m # -d # -g # -f # -l # -x # -n # [-o <targetfile>]

- a <source a> Original file.
- b <source b> Compressed file.
- q Quiet (no output) must be first argument.
- p # PSNR type
- s # SSIM type (0-Square, 1=Gaussian)
- m # MS-SSIM type
- d <8|16> 8 or 16 bit ycbcr comparison (def 8)
- g # Global checks (0-none, 1-basic, 2-advanced)
- f # First frame to check
- l # Last frame to check
- x # B source first frame to check
- n # Next frame distance (def 1 = every frame)
- o [targetfile] Optional, csv or db output name (or '-o i' to generate the file name)

## 4.5 mrfix

mrfix - Change metadata in media files, by Drastic Technologies ([www.drastictech.com](http://www.drastictech.com))

Version: 8.0.154

Build: 154

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Usage: mrfix.exe -i <sourcefile> -m c [per mode paramaters]

- i <sourcefile> File match string (e.g. \*.ari)
- q Quiet, minimal print outs
- t Test, and do not alter files
- m <mode> What kind of file operation:
  - a Arri file metadata update
  - c Cine file metadata update
  - s Strip raw audio or video out
  - t Transport stream tools

For mode details, specify the mode (e.g. mrfix -m a ?)

### ARRI Metadata

The ARRI file metadata is specified in pairs, after the main parameters above. Each pair consists of the element that should be changed, and what it should be changed to. There are three types of data: U32 (a 32 bit integer number, e.g. 24), R32 (a floating point value, e.g. 1.223) and U8 (a string with a maximum size, e.g. "this is metadata"). When specifying strings, quote marks must be used if the string contains spaces. For FPS settings, they can be specified as simple frame rates (e.g. 24, 25, 30) or non integer frame rates by multiplying by 1000 (e.g. 23976, 29970).

WhiteBalance U32  
GreenTintFactor R32  
WhiteBalanceFactorR R32  
WhiteBalanceFactorG R32  
WhiteBalanceFactorB R32  
WBAppliedInCameraFlag U32  
ExposureIndex U32  
BlackLevel U32  
WhiteLevel U32  
LookFile U8[32]  
SensorFps U32 (note: should match ProjectFPS)  
ProjectFps U32 (note: should match SensorFPS)  
CircleTake U32  
ReelName U8[8]  
SceneName U8[16]  
TakeName U8[8]

Director U8[32]  
DoP U8[32]  
ProductionName U8[32]  
Company U8[32]  
Notes U8[256]  
SoundFileName U8[32]  
SoundRollName U8[32]  
SceneFileName U8[32]  
TakeFileName U8[32]  
Info U8[32]

Example command line:

```
mrfix -i V:\Test\*.ari -m a SensorFPS 24 ProjectFPS 24 ExposureIndex 1200 WhiteBalanceFactorR  
0.901 WhiteBalanceFactorG 1.0 WhiteBalanceFactorB 1.34 LookFile testlook.look Director "James L  
Brooks" Info "This is a line of information"
```

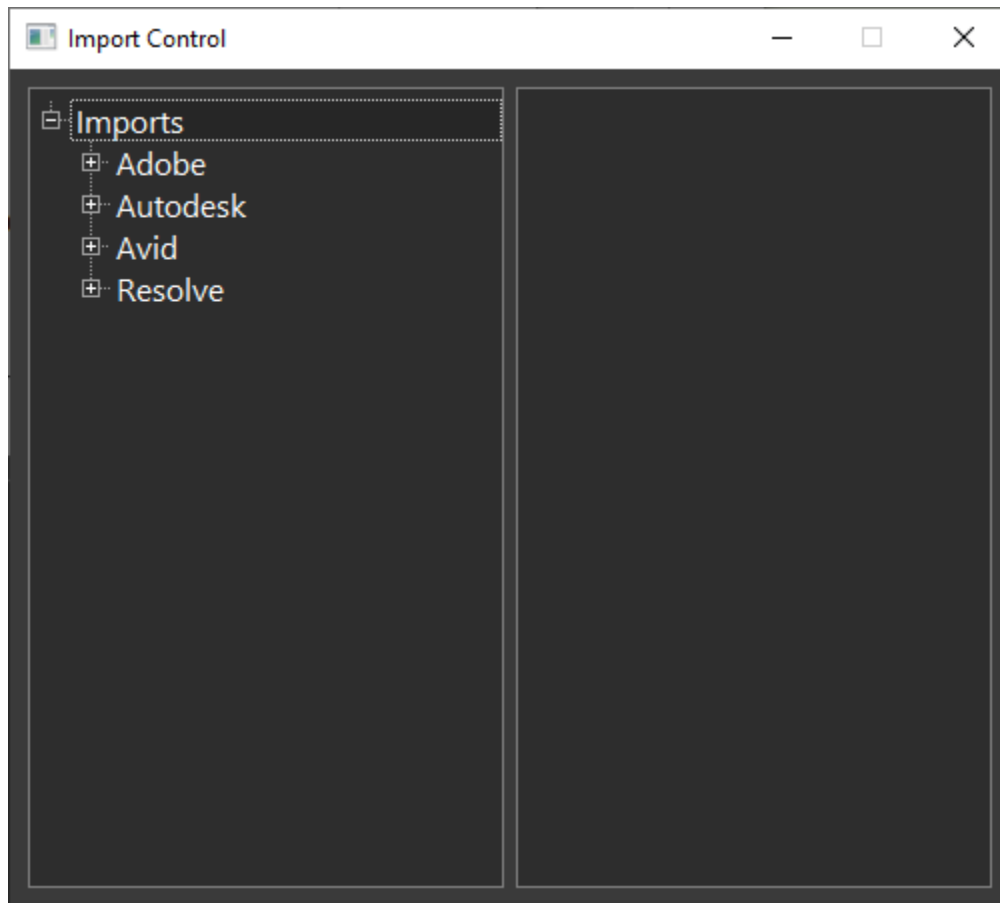
## 5 Import Control

MediaReactor Workstation includes an Import Control exe to set the specific types of files to import. For several import types, the user can set which file types to show on import operations.

The Import Control is designed to limit the file types shown on an import dialog to the ones you need. Selecting a checkbox specifies that type will be available to import. If no checkboxes are selected, all types will be shown.

The Import Control dialog is limited to the formats supported by the version. So, for MediaReactor Lite versions, only a few formats will be supported.

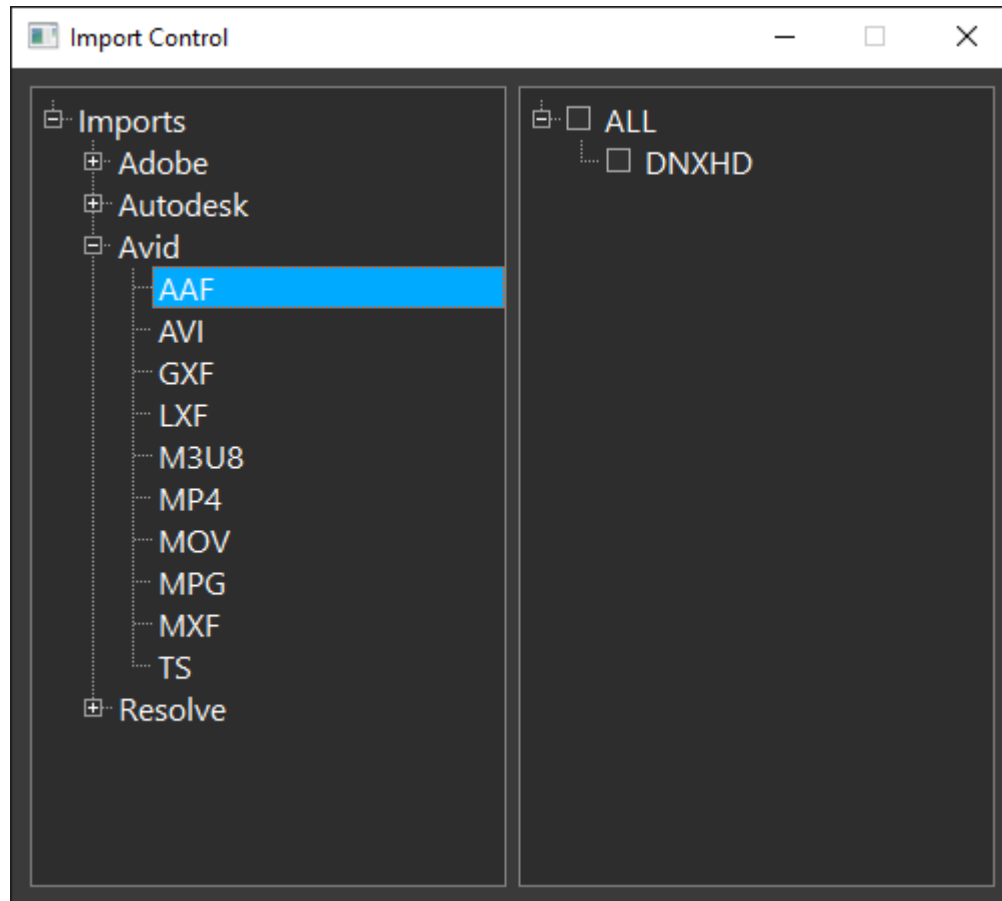
The tabs provide Import filters for Adobe, Autodesk, Avid, and Resolve.



The options in the filters are all the same. The below images use the Avid pulldowns.

## 5.1 AAF

Avid's **Advanced Authoring Format**. AAF is an audio file type used by Avid audio editing and production software products such as Avid Pro Tools and Avid Media Composer.

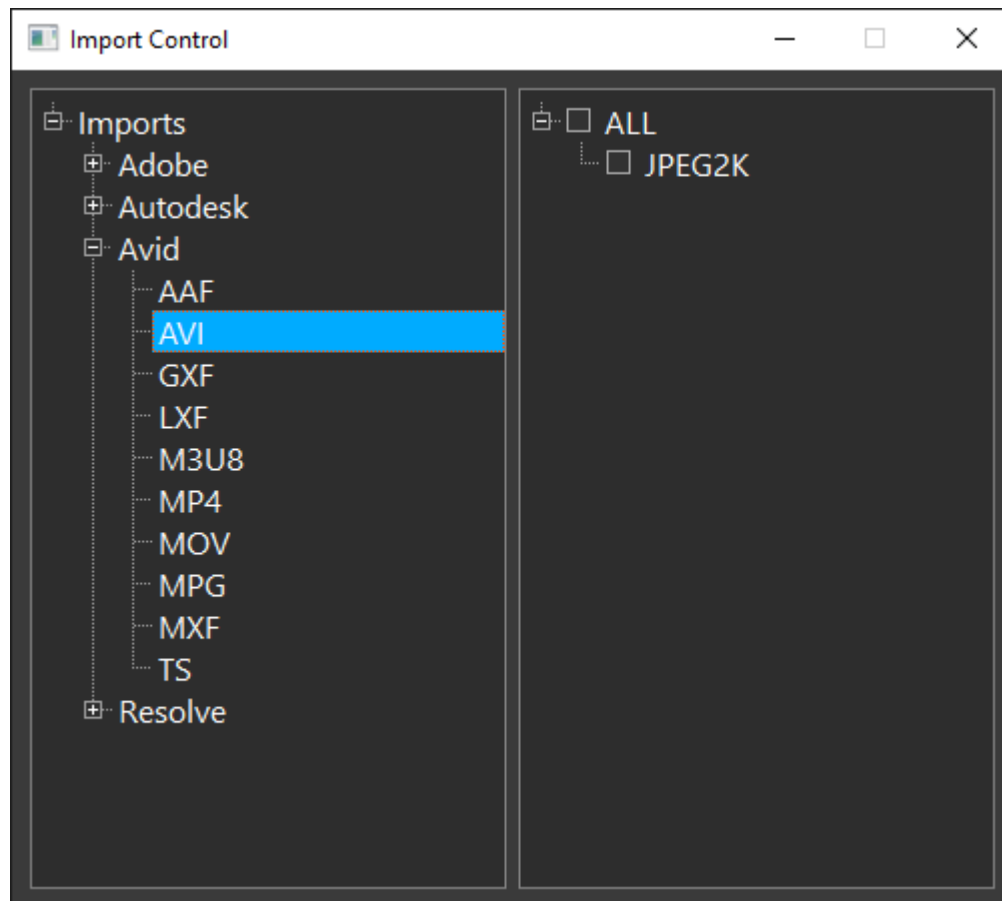


**ALL** checkbox – check to specify all AAF files should be available.

**DNXHD** checkbox – check to specify DNXHD AAF types should be available.

## 5.2 AVI

**Audio Video Interleave** – an industry standard file type.

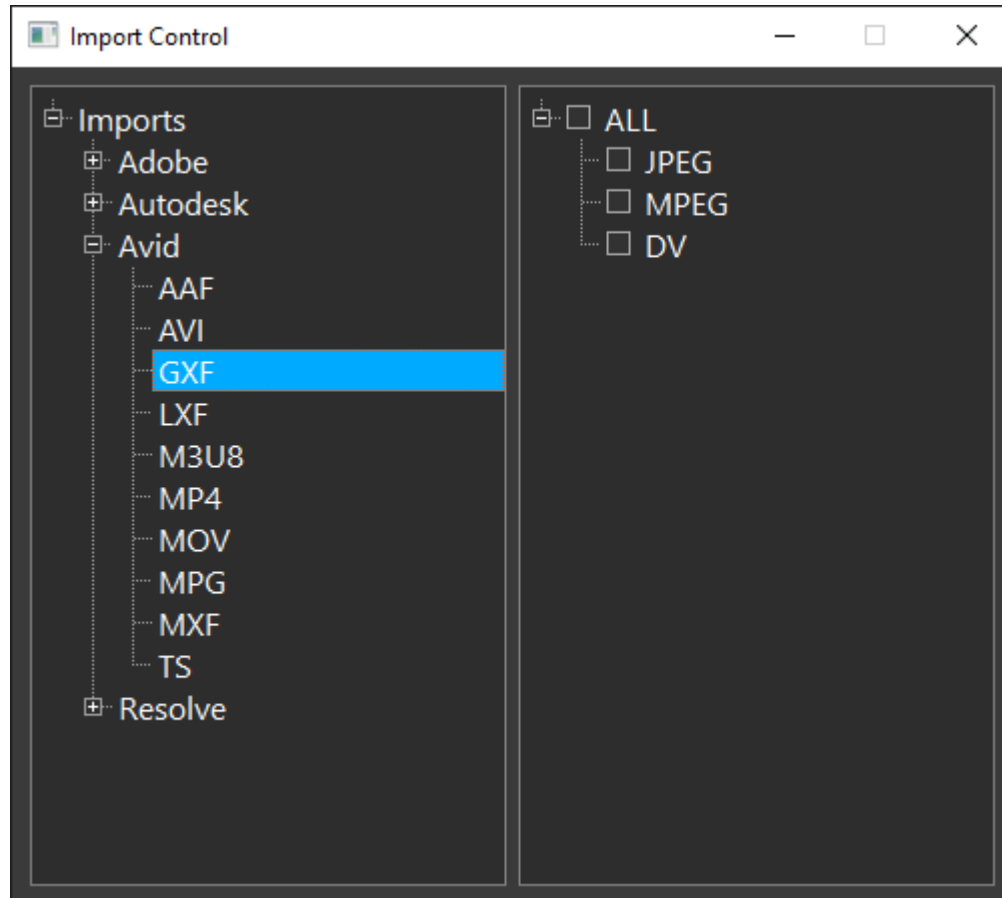


**ALL** checkbox – check to specify all AVI files should be available.

**JPEG2K** checkbox – check to specify JPEG2K AVI types should be available.

## 5.3 GXF

**General Exchange Format** – GXF was developed by Grass Valley Group.



**ALL** checkbox – check to specify all GXF files should be available.

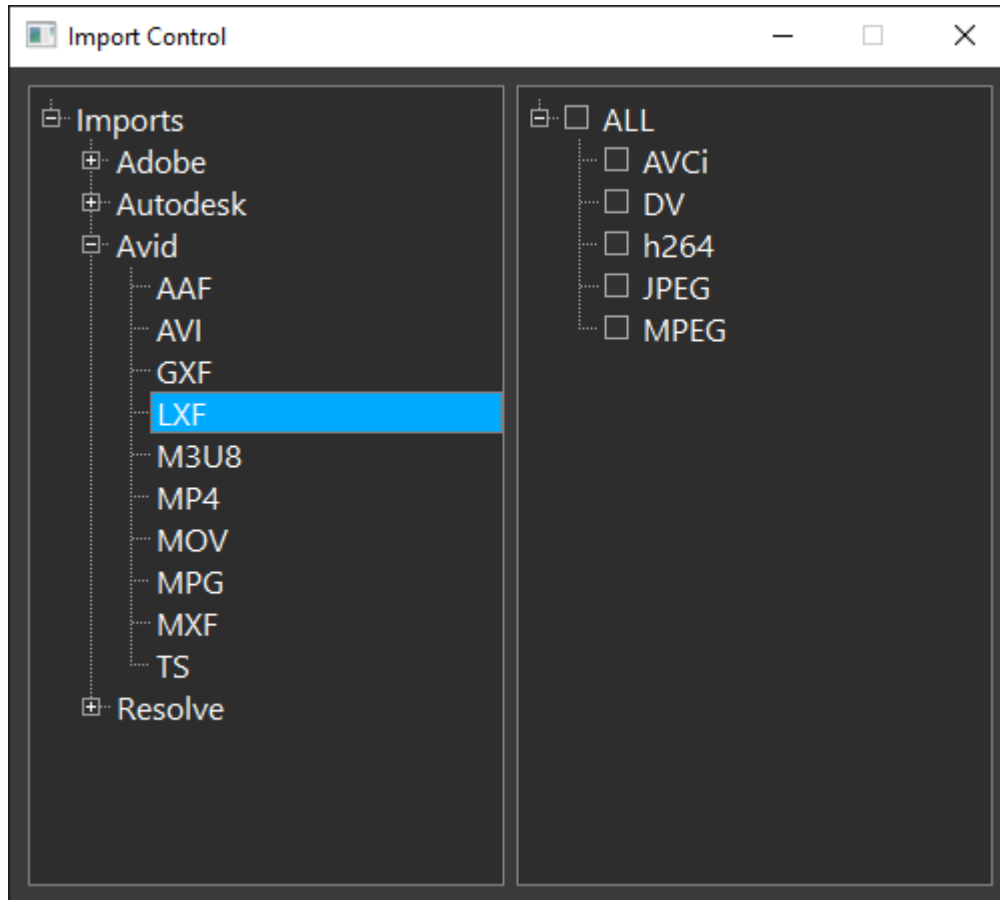
**JPEG** checkbox – check to specify JPEG2K GXF types should be available.

**MPEG** checkbox – check to specify MPEG2K GXF types should be available.

**DV** checkbox – check to specify DV GXF types should be available.

## 5.4 LXF

LXF - the **Leitch/Harris Exchange Format** for Nexio servers.



**ALL** checkbox – check to specify all LXF files should be available.

**AVCi** checkbox – check to specify AVCi LXF types should be available.

**DV** checkbox – check to specify DV LXF types should be available.

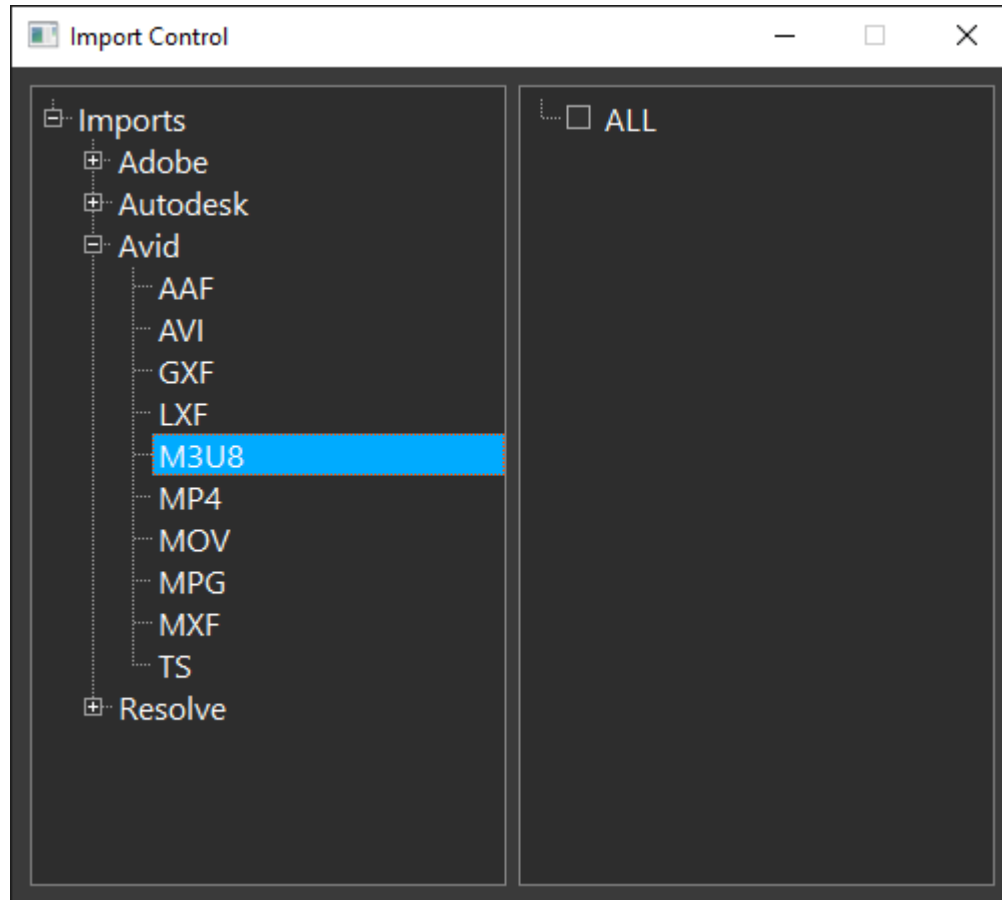
**h264** checkbox – check to specify h.264 LXF types should be available.

**JPEG** checkbox – check to specify JPEG LXF types should be available.

**MPEG** checkbox – check to specify MPEG LXF types should be available.

## 5.5 M3U8

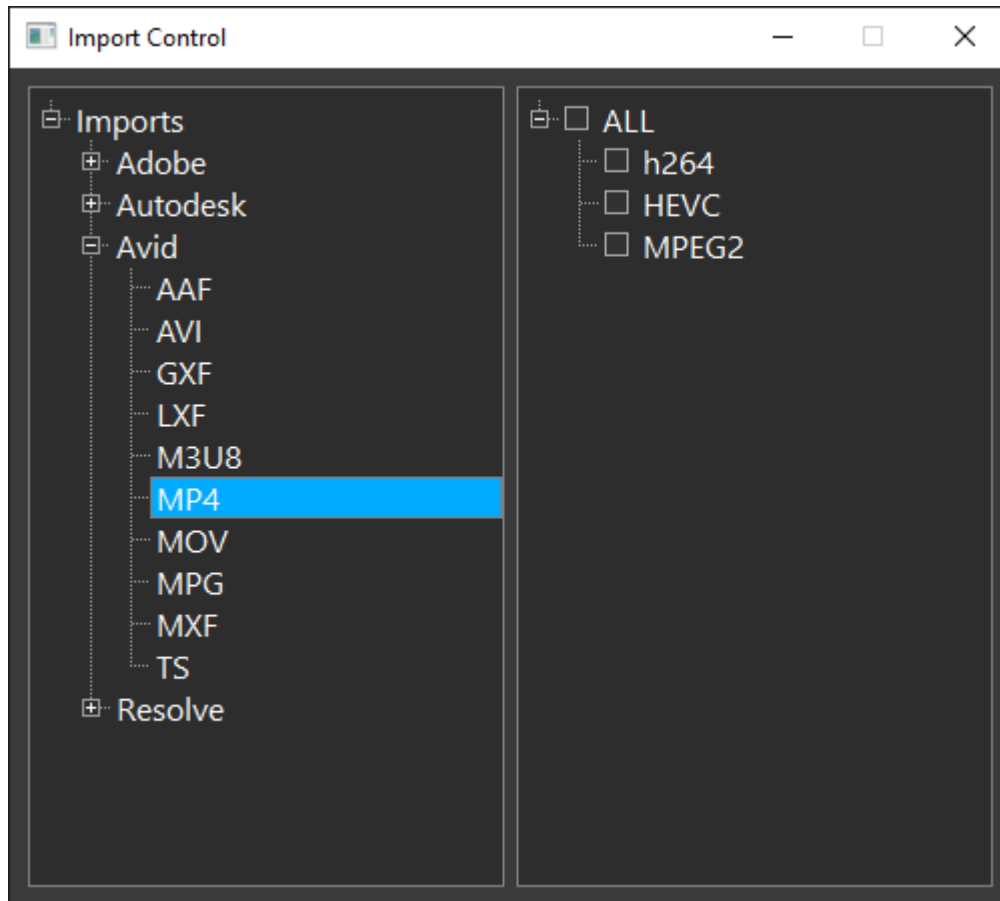
An M3U8 file is a playlist file used primarily for multimedia streaming.



**ALL** checkbox – check to specify all M3U8 files should be available.

## 5.6 MP4

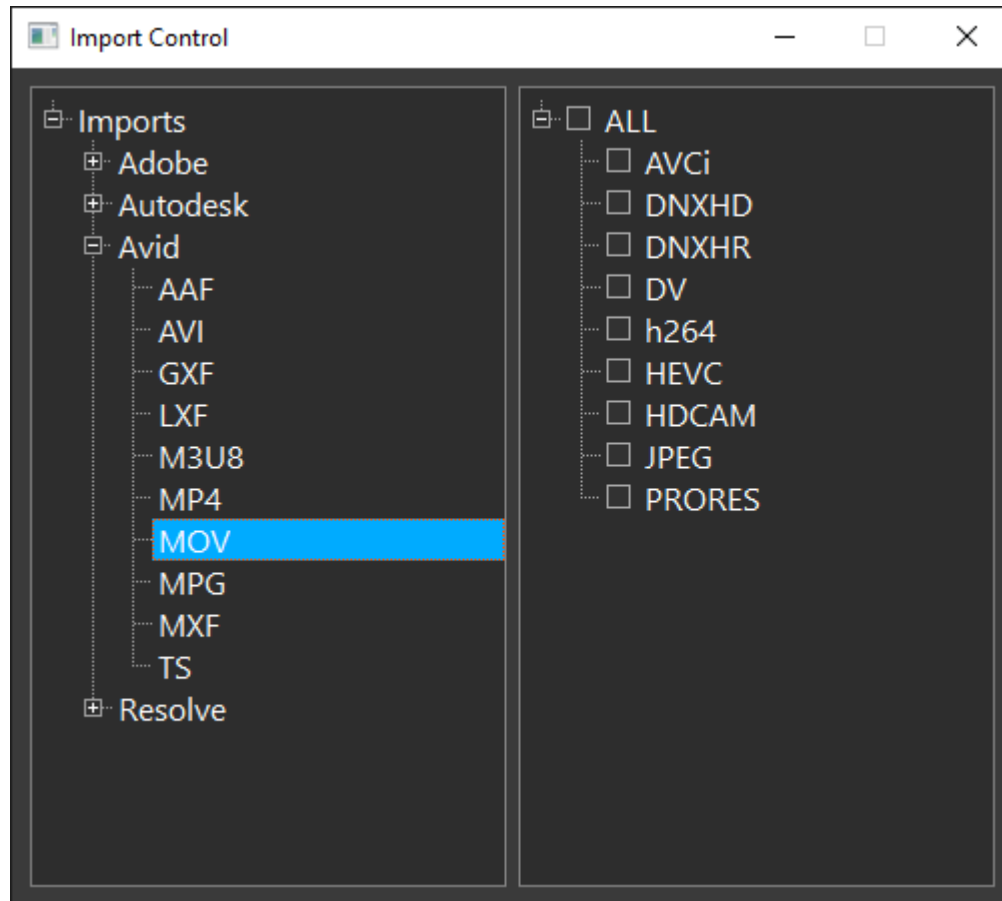
MP4 (formally MPEG-4 Part 14) is a digital multimedia container format most commonly used to store video and audio, but it can also be used to store other data.



- ALL** checkbox – check to specify all MP4 files should be available.
- h264** – check to specify h.264 MP4 types should be available.
- HEVC** – check to specify HEVC MP4 types should be available.
- MPEG2** – check to specify MPEG-2 MP4 types should be available.

## 5.7 MOV

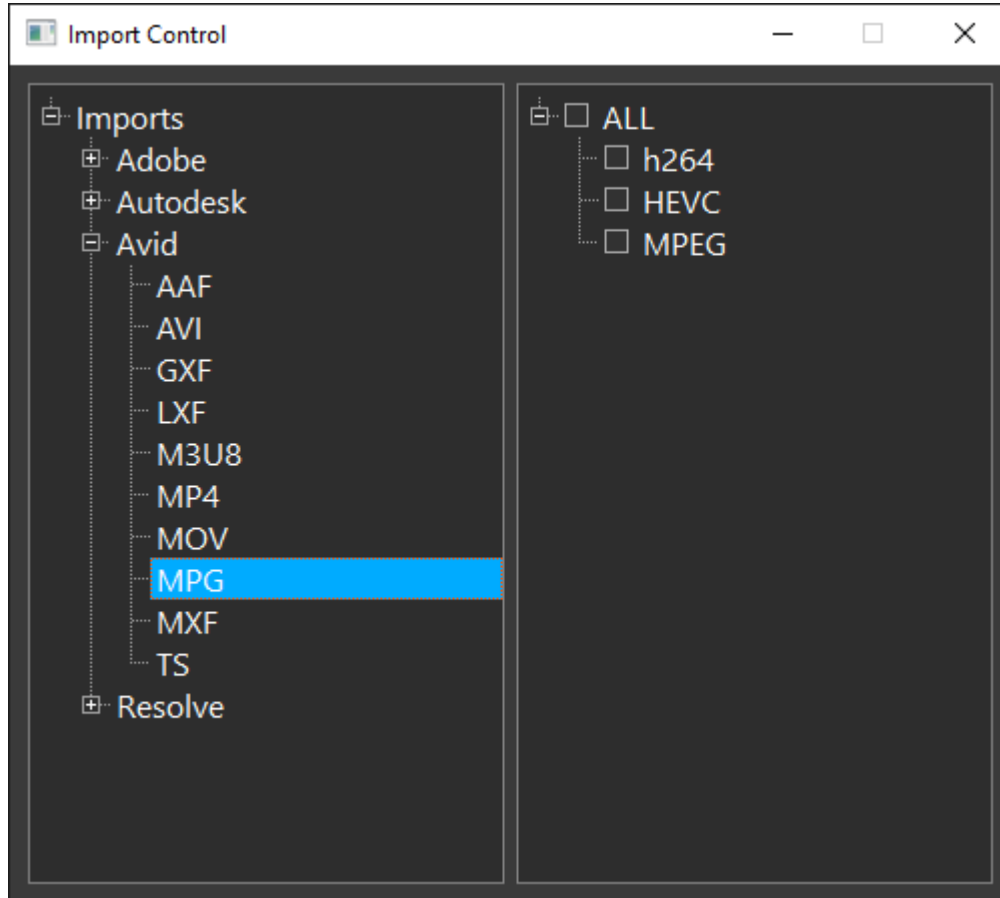
QuickTime File Format (QTFF) is a computer file format used natively by the QuickTime framework. QuickTime Movie.



- ALL** checkbox – check to specify all MOV files should be available.
- AVCi** – check to specify AVCi MOV types should be available.
- DNXHD** – check to specify DNhXD MOV types should be available.
- DNXHR** – check to specify DNxHR MOV types should be available.
- DV** – check to specify DV MOV types should be available.
- h264** – check to specify h.264 MOV types should be available.
- HEVC** – check to specify HEVC MOV types should be available.
- HDCAM** – check to specify HDCAM MOV types should be available.
- JPEG** – check to specify JPEG MOV types should be available.
- PRORES** – check to specify ProRes MOV types should be available.

## 5.8 MPG

MPG is a container format for multiplexing digital audio, video and more.



**ALL** checkbox – check to specify all MPG files should be available.

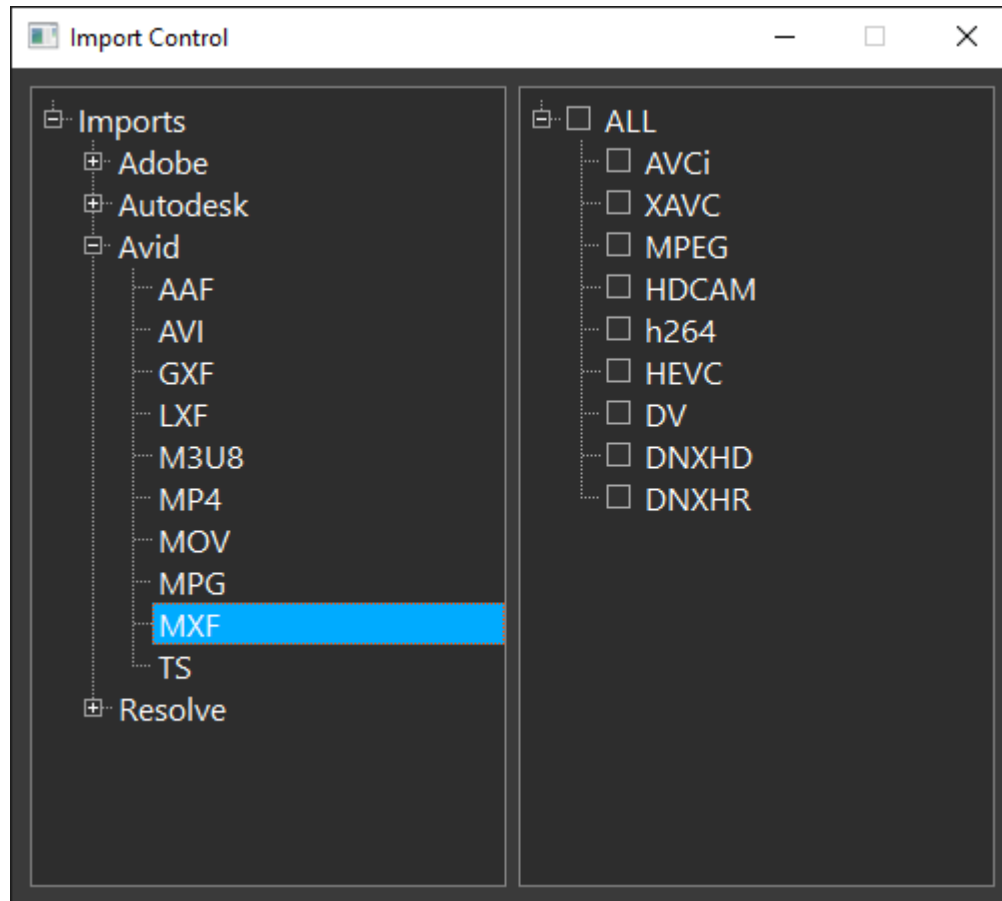
**h264** – check to specify h.264 MPG types should be available.

**HEVC** – check to specify HEVC MPG types should be available.

**MPEG** – check to specify MPEG MPG types should be available.

## 5.9 MXF

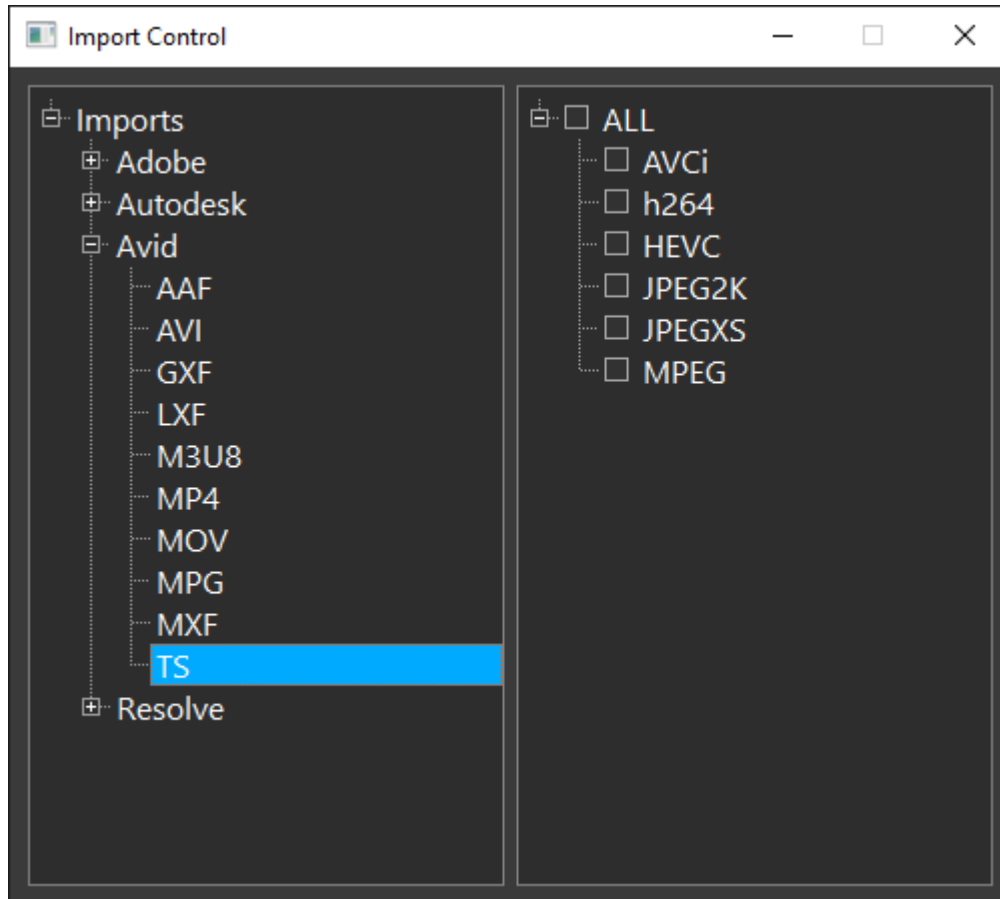
Material Exchange Format (MXF) is a container format for professional digital video and audio media defined by a set of SMPTE standards.



- ALL** checkbox – check to specify all MXF files should be available.
- AVCi** – check to specify AVCi MXF types should be available.
- XAVC** – check to specify XAVC MXF types should be available.
- MPEG** – check to specify MPEG MXF types should be available.
- HDCAM** – check to specify HDCAM MXF types should be available.
- h264** – check to specify h.264 MXF types should be available.
- HEVC** – check to specify HEVC MXF types should be available.
- DV** – check to specify DV MXF types should be available.
- DNXHD** – check to specify DNxHD MXF types should be available.
- DNXHR** – check to specify DNxHR MXF types should be available.

## 5.10 TS

MPEG transport stream (MPEG-TS, MTS) or simply transport stream (TS) is a standard digital container format for transmission and storage of audio, video, and Program and System Information Protocol data. It is used in broadcast systems such as DVB, ATSC and IPTV.



**ALL** checkbox – check to specify all TS files should be available.

**AVCi** – check to specify AVCi TS types should be available.

**h264** – check to specify h.264 TS types should be available.

**HEVC** – check to specify HEVC TS types should be available.

**JPEG2K** – check to specify JPEG2K TS types should be available.

**JPEGXS** – check to specify JPEG XS TS types should be available.

**MPEG** – check to specify MPEG TS types should be available.

## 6 Appendix - Drastic DT3D Stereo File

The Drastic DT3D stereo file is an XML based re-director file that can merge two separate 'eye' files into a stereo pair, as well as adding audio and optional closed captioning.

DT3D Stereo File Format  
Drastic Technologies Ltd  
(c) Copyright 2005-2025, Drastic Technologies Ltd  
All Rights Reserved

Contents:

-----

1. Overview
2. File Format
3. Samples

```
=====
=
=====
=
=====
=====
=====
1. Overview
=====
=====
```

The .dt3d 'stereo' file is a text based XML file that specifies two separate files as the left and right eyes of a stereo pair. These files do not have to have a particular naming convention, or even be of the same file type, but their internal compression must be the same. The stereo file reader will open both video files, and an optional set of audio files, and combine them for 3D use in videoQC, Drastic DDR, Net-X-Code Server, MediaReactor, and other Drastic products.

```
=====
=
=====
=
```

```
=====
=====
=====
2. File Format
=====
=====
```

The file format is an ANSI or UTF-8 XML file using iso-8859-1 encoding. It has to use the file extension .dt3d to be recognized by the stereo reader plugin in Final Cut Pro, Premiere, Media Composer, etc. If you are only using Drastic or your own software, it can also use the .stereo extension. Extra information may be encoded at any point in the file, but at minimum there must be a Stereo tag with at least two File<number> tags to specify the right and left eye files.

All stereo files start with the xml type specifier:

```
<?xml version="1.0" encoding="iso-8859-1" ?>
```

This is normally followed by a comment specifying the file's purpose and where the format document can be retrieved:

```
<!-- Drastic stereo file redirector -->
<!-- Documentation http://www.drastictech.com/stereofileformat.txt -->
```

All of the important information for the stereo reader is contained within a Stereo tag pair

```
<Stereo>
</Stereo>
```

The stereo reader is designed to handle more than two video frames (eyes) per read, but for now it is only using two. Each file is enclosed in a File<number> tag pair. The numbering next to the File should be 0 and 1 for the left and right eyes:

```
<File0>
  <!-- Left eye -->
</File0>
<File1>
  <!-- Right eye -->
</File1>
```

within these tags are sub tags that specify where the video file is and any offset required to align the two eyes. A typical file tag area will look like this:

```
<File0>
  <!-- Optional directory, else current dir-->
  <Dir>C:\Optional</Dir>
  <!-- First file name -->
  <Name>test_l.avi</Name>
  <!-- Offset in frames -->
  <Offset>22</Offset>
```



```

<!-- Optional directory, else current dir-->
<Dir>C:\Optional</Dir>
<!-- First file name -->
<Name>test_r.avi</Name>
<!-- Offset in frames -->
<Offset>0</Offset>
</File1>
<!-- Optional audio file name. If not present then audio will be read from the first video file -->
<AudioFile>
  <!-- Separate audio file name -->
  <Name>test.wav</wave>
</AudioFile>
</Stereo>
-snip-----

-snip-----
<?xml version="1.0" encoding="iso-8859-1" ?>
<!-- http://www.drastictech.com/stereofileformat.txt -->
<Stereo>
  <File0>
    <Name>test_l.avi</Name>
  </File0>
  <File1>
    <Name>test_r.avi</Name>
  </File1>
  <AudioFile>
    <Name>test.wav</wave>
  </AudioFile>
</Stereo>
-snip-----

-snip-----
<?xml version="1.0" encoding="iso-8859-1" ?>
<!-- http://www.drastictech.com/stereofileformat.txt -->
<Stereo>
  <File0>
    <Name>test_l.avi</Name>
  </File0>
  <File1>
    <Name>test_r.avi</Name>
  </File1>
</Stereo>
-snip-----

```

```

-snip-----
<?xml version="1.0" encoding="iso-8859-1" ?>
<!-- Drastic Stereo file redirector -->
<!-- Documentation: http://www.drastictech.com/stereofileformat.txt -->
<Stereo>
  <!-- First/Left file -->
  <File0>
    <!-- First/Left file name -->
    <Name>T3D003013_Centre_fast_1080p60_l.yuv</Name>
    <!-- Offset in frames -->
    <Offset>0</Offset>
  </File0>
  <!-- Second/Right file -->
  <File1>
    <!-- Optional directory, else current dir-->
    <!-- <Dir>C:\Optional</Dir> -->
    <!-- Second/Right file name -->
    <Name>T3D003013_Centre_fast_1080p60_r.yuv</Name>
    <!-- Offset in frames -->
    <Offset>0</Offset>
  </File1>
  <!-- Base audio file name -->
  <AudioFile>
    <Name>../Audio_wav/T3a003y113_Centre_fast_act_unc.wav</Name>
  </AudioFile>
  <ClosedCaptions>
    <Name>T3D003013_Centre_fast_1080p60_r.mcc</Name>
  </ClosedCaptions>
</Stereo>
-snip-----

```

## 7 Appendix - Drastic DHDR/HDR YUV RAW Video Header Format

Drastic software can read many file formats which it does not natively understand. Formats that have a fixed video frame size and are logically organized can be described using the industry standard HDR text file format (NOTE: Not the still image HDR). This page describes the file format.

To do this a couple of basic criteria must be met:

- The frames within the stream or series of images, must be the same size.
- The frames must be in a supported compression format (see below)
- A header (.HDR/.STILLS) file must be created to describe the video

The HDR/.STILLS must be in the following format:

HDR File Format

Drastic Technologies Ltd.

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Contents:

-----

1. Overview
2. Settings
3. Calculations
4. Samples

```
=====
=
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=====
1. Overview
=====
=====
```

This document describes header (\*.dthdr/\*.hdr) file format for use with the Drastic Technologies dtx\_HdrYuv.d1x plug in for MediaReactor and QuickClip/VVW. This format has been in use for over 25



yvu422\_16 - 4:2:2 Planar YCbCr in YV12 order, 16 bits per component  
yvu422\_16le - Little endian 4:2:2 planar YCbCr in YV12 order, 16 bits per component  
yuv422\_10 - 4:2:2 Planar YCbCr in I420 order, 10 bits per component in 16 bit container  
yuv422\_10le - Little endian 4:2:2 planar YCbCr in I420 order, 10 bits per component in 16 bit container  
yvu422\_10 - 4:2:2 Planar YCbCr in YV12 order, 10 bits per component in 16 bit container  
yvu422\_10le - Little endian 4:2:2 planar YCbCr in YV12 order, 10 bits per component in 16 bit container  
yuv422\_12 - 4:2:2 Planar YCbCr in I420 order, 12 bits per component in 16 bit container  
yuv422\_12le - Little endian 4:2:2 planar YCbCr in I420 order, 12 bits per component in 16 bit container  
yvu422\_12 - 4:2:2 Planar YCbCr in YV12 order, 12 bits per component in 16 bit container  
yvu422\_12le - Little endian 4:2:2 planar YCbCr in YV12 order, 12 bits per component in 16 bit container  
yuv422\_14 - 4:2:2 Planar YCbCr in I420 order, 14 bits per component in 16 bit container  
yuv422\_14le - Little endian 4:2:2 planar YCbCr in I420 order, 14 bits per component in 16 bit container  
yvu422\_14 - 4:2:2 Planar YCbCr in YV12 order, 14 bits per component in 16 bit container  
yvu422\_14le - Little endian 4:2:2 planar YCbCr in YV12 order, 14 bits per component in 16 bit container  
yuv444\_10 - 4:4:4 Planar YCbCr in I420 order, 10 bits per component in 16 bit container  
yuv444\_10le - Little endian 4:4:4 planar YCbCr in I420 order, 10 bits per component in 16 bit container  
yvu444\_10 - 4:4:4 Planar YCbCr in YV12 order, 10 bits per component in 16 bit container  
yvu444\_10le - Little endian 4:4:4 planar YCbCr in YV12 order, 10 bits per component in 16 bit container  
yuv444\_12 - 4:4:4 Planar YCbCr in I420 order, 12 bits per component in 16 bit container  
yuv444\_12le - Little endian 4:4:4 planar YCbCr in I420 order, 12 bits per component in 16 bit container  
yvu444\_12 - 4:4:4 Planar YCbCr in YV12 order, 12 bits per component in 16 bit container  
yvu444\_12le - Little endian 4:4:4 planar YCbCr in YV12 order, 12 bits per component in 16 bit container  
yuv444\_14 - 4:4:4 Planar YCbCr in I420 order, 14 bits per component in 16 bit container  
yuv444\_14le - Little endian 4:4:4 planar YCbCr in I420 order, 14 bits per component in 16 bit container  
yvu444\_14 - 4:4:4 Planar YCbCr in YV12 order, 14 bits per component in 16 bit container  
yvu444\_14le - Little endian 4:4:4 planar YCbCr in YV12 order, 14 bits per component in 16 bit container  
YUV420 - Planar YCbCr in IYUV/I420 order (ST/Thompson/MPEG Groups)  
YV12 - Planar YCbCr in YV12 order  
YUV422P - Planar YCbCr with 4:2:2 sub sampling (Sony)  
YVU422P - Planar YCbCr with 4:2:2 sub sampling (chroma inverted)  
V210 - Interleaved 10 Bit YCbCr v210 format (standard Quick Clip 10 Bit YCbCr)  
YUV4224\_10 - Interleaved 10 Bit YCbCr v210 format with alpha/key channel  
YUV4224 - Interleaved 8 Bit YCbCr yuv2/UYVY format with alpha/key channel  
YUV422\_fields - Separate fields of 4:2:2 YCbCr (Crescent)  
YUV422 - Interleaved 8 Bit YCbCr UYVY format (standard Quick Clip 8 Bit YCbCr) alias uyvy422  
yuv422\_16 - Interleaved 16 Bit YCbCr UYVY format  
yuv422\_16le - Little endian interleaved 16 Bit YCbCr UYVY format

UYVY422 - YUV 4:2:2 interleaved 8 bit packed as U Y V Y U Y V Y ...  
YUY2\_16 - YUV 4:2:2 interleaved 16 bit packed as Y U Y V Y U Y V ...  
YUY2\_16le - Little endian YUV 4:2:2 interleaved 16 bit packed as Y U Y V Y U Y V ...  
YUY2 - YUV 4:2:2 interleaved 8 bit packed as Y U Y V Y U Y V ...

DPXRGBLEFILL - DPX 10 bit RGB, little endian, filled  
DPXRGBLE - DPX 10 bit RGB, little endian, padded  
DPXRGBFILL - DPX 10 bit RGB, big endian, filled  
DPXRGB - DPX 10 bit RGB, big endian, padded  
DPXABGRLEFILL - DPX 10 bit ABGR, little endian, filled  
DPXABGRLE - DPX 10 bit ABGR, little endian, padded  
DPXABGRFILL - DPX 10 bit ABGR, big endian, filled  
DPXABGR - DPX 10 bit ABGR, big endian, padded

PRGB - 8 bit x 3 Planar RGB  
PRGBA - 8 bit x 4 Planar RGBA  
PBGR - 8 bit x 3 Planar BGR  
PABGR - 8 bit x 4 Planar ABGR  
PBGRA - 8 bit x 4 Planar BGRA  
PARGB - 8 bit x 4 Planar ARGB

RGBA - 32 Bit Interleaved RGB (TIFF)  
ARGB - 32 Bit Interleaved RGB (macOS)  
BGRA - 32 Bit Interleaved RGB (Windows BMP/TGA)  
BGR - 24 Bit Interleaved RGB (Windows BMP/TGA)  
RGB - 24 Bit Interleaved RGB (TIFF)  
TIFF24 - 24 Bit Interleaved RGB TIFF ordering  
TIFF32 - 32 Bit TIFF (same as RGBA)  
FULLDUAL - 10 bit dual frame YCbCr (stereo)  
Grey - 8 bit grey/gray plane of video data alias Gray  
DVSD - DVSD 'dv/dif' stream 4:2:0 or 4:1:1 8 bit SD  
DV25 - DV25 'dv/dif' stream 4:2:0 8 bit SD  
DV50 - DVCPPro 50 stream 4:2:2 8 bit SD alias avdv  
DV100 - DVCPPro HD/DV-100 stream 4:2:2 8 bit HD alias avd1  
AVCI100 - Panasonic AVCI 100  
DNXHD - Avid DNxHD stream alias av10, avd0~9  
IMX30 - Sony IMX MPEG 30 Mbit stream 4:2:2 8 bit  
IMX40 - Sony IMX MPEG 40 Mbit stream 4:2:2 8 bit  
IMX50 - Sony IMX MPEG 50 Mbit stream 4:2:2 8 bit

STEREO8 - Dual 8 bit YCbCr interleaved streams (one after another)  
STEREO10 - Dual 10 bit YCbCr interleaved streams (one after another)  
STEREO30 - Dual 10 bit RGB DPX interleaved streams (one after another)

STEREO32 - Dual 8 bit BGRA (windows order) interleaved streams (one after another)  
stereo12bgr - Dual 12 bit raw bayer (one after another)  
stereo12rggb - Dual 12 bit raw bayer (one after another)  
stereo12gbrg - Dual 12 bit raw bayer (one after another)  
stereo12grbg - Dual 12 bit raw bayer (one after another)

bggrbe12 - Bayer pattern, 12 bits per component packed big endian  
rggbe12 - Bayer pattern, 12 bits per component packed big endian  
gbrge12 - Bayer pattern, 12 bits per component packed big endian  
grgbe12 - Bayer pattern, 12 bits per component packed big endian  
bggr12 - Bayer pattern, 12 bits per component packed little endian  
rggb12 - Bayer pattern, 12 bits per component packed little endian  
gbrg12 - Bayer pattern, 12 bits per component packed little endian  
grbg12 - Bayer pattern, 12 bits per component packed little endian

ARRIBAYERDLRAW12 - ARRI dual link raw 12 bit bayer packed into YCbCr 10

\*\*\* DEPRECATED \*\*

RGB\_10 - 30 Bit DPX/Cineon Ordering  
RGB\_10LE - 30 Bit little endian DPX/Cineon ordering

\*\*\* NOT AVAILABLE \*\*

n/a YUV411 - Interleaved YCbCr DV Order  
n/a YUV411P - Planar YCbCr DV Order  
n/a YUV410 - Interleaved YCbCr 4:1:0  
n/a YUV410P - Planar YCbCr 4:1:0  
n/a YUVA444 - Interleaved 8 bit YCbCrAlpha (Adobe)  
n/a UYV444 - YUV 4:4:4 packed as U Y V U Y V ...  
n/a MJPEG - Motion JPEG

-----  
% Image Size (NbRows,NbCols)

486 720

The vertical and horizontal size of the video frame. Can be any size, but the following sizes are normal: 480x640, 480x704, 480x720, 486x720, 512x720, 576x704, 576x720, 608x720, 720x1280, 1080x1920, 1088x1920 (please note, the 'x' between the height and width is not supported. It must be a space in the hdr file)

-----  
% Number of Fields per Image (optional)

2

Number of separate images that make up a field. For most images this would be 1 indicating 1 full size plane with progressive or interleaved lines. If there are two separate images that need to be

interleaved, this would be set to 2. This value does not affect the Image Size above, that is always the absolute number of pixels vertically and horizontally. Please note: this is the correct interpretation of this value, previously we ignored this and recommended 2 where it should have been 1.

-----  
% Number of Image

1800

The number of individual frames in a file. If this value is larger than the actual number of frames available, it will be corrected, so if you are unsure set it to a very large value (e.g. 4000000)

-----  
% Frames per Second

29

The frame rate of the video frames. This may be any value, but some values have special meanings:

23 - Means 23.98

24 - Standard film

25 - PAL/25p/50i

29 - Means 29.97 - NTSC/29.97p/59.94i

30 - NTSC NDF/30p/60i

50 - 50p

59 - Means 59.94p (for 720p, 1080p, etc)

60 - Means 60p (for 720p, 1080p, etc)

-----  
% Header Offset (optional)

0

How far into the file the series of video frames starts

-----  
% Video Alignment (optional)

512

Alignment of each frame within the stream. If the frames are back to back this value will be 1. It is normal to pad each frame to align it to a disk sector for higher speed reads and writes. This value is normally either 0 (which indicates 1), 512 (windows), 4096 (sgi), 16384 (js)

-----  
% Video Line Pitch (optional)

1440

The number of bytes in one line of video. Especially important for YCbCr 10 bit when frame size is 1280x720 or 2048x1080

-----  
% Video Offset (optional)

0

How far into each frame, from the calculated start, the actual video starts

-----  
% Video Name (optional)

ThisFile.YUV

This is the name of the video file/stream associated with this header. Normally the video file has the same name as the hdr file, but with a .yuv extension. This allows the video name to be overridden to any file name.

-----  
% Audio Name (optional)

ThisFile.Wav

This is the name of an associated audio file. Normally QuickClip/MediaReactor looks for side bar wave or aiff files with the same name as the header file. This allows the audio file to be specified.

-----  
% Audio Format

Stereo

-----  
% Audio Frequency

48000

-----  
% Audio Block Align

4

-----  
% Audio Bits Per Sample

24

-----  
% Timecode (optional)

01:00:00:00

This is the time code value of the first frame. The time is assumed to run contiguously from this point.

-----  
% Userbits (optional)

BAADF00D

This is the user bits returned for this stream. It is assumed it is the same for all video frames.



\*NOTE: 720x1280 in YUV422\_10 is a special case. Please use a (1) calc for this

(1) Aligned Frame Size = <size of video file> / <% Number of Image>

(2) Aligned Frame Size = (((<Frame Size> + <% Video Alignment> - 1) / <% Video Alignment>) \* <% Video Alignment>

\*NOTE: Above math MUST be integer to work properly

Seek to a frame offset = <required frame number> \* <Aligned Frame Size>

```
=====
=
=====
=
=====
=====
=====
=====
=====
4. Samples
=====
=====
```

calendar\_01.hdr

-snip-----

% Color Format (YUV420, YUV422, YUV422P, YUV422\_10, RGB, RGBA)

YUV422P % Planar 422

% Image Size (NbRows,NbCols) (576 720, 486 720, 720 1280, 1080 1920)

576 720 % PAL Size

% Number of Fields per Image

1 % Both fields in single frame group

% Number of Image

12 % If greater than actual, reader will correct

% Frame per second

25 % PAL rate

%% Video Alignment

%512 % no alignment

%% Video Name

% optional e:\calendar\_01.yuv

% Audio Format

%Stereo % none, should be wav or aiff

% timecode

00:00:00;00 D

% userbits

```
FFFFFFFF
% Start Frame
0
-snip-----
```

```
table_tennis.hdr (mpeg test stream)
-snip-----
% Color Format
YUV420
% Image Size (NbRows,NbCols)
288 352
% Number of Fields per Image
1
% Number of Image
250
% Frame per second
25
-snip-----
```

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