

SONY

CATALYST BROWSETM



User Manual

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Introduction

Catalyst Browse is a powerful clip-management tool for the latest Sony camcorders and decks.

- The Media Browser pane allows you to browse the media files on drives and devices connected to your computer.
- The Video pane allows you to preview media files.
- The Inspector pane allows you to view metadata saved in media files.
- The [Adjust Color workspace](#) allows you to adjust the color content of your clips.

- [Clip lists](#) allow you to assemble clips when working with XDCAM media in an XD root folder , XAVC media in an XD root folder , and RAW media in an AxS folder .

 Catalyst Browse is designed to support clips from Sony cameras and devices. For expanded device support, please consider Catalyst Prepare.

What's new in version 2019.2

- Added support for stabilizing FX9 clips using metadata.
- Improved workflow for exporting clips.
- The scale of the **SDR gain** control in Options > Color Management has been updated to use a range of -15.0 dB to 0 dB (including floating-point values). This change ensures consistent HDR-to-SDR conversion with the HDRC-4000 HDR Production Converter Unit.
- Added support for VENICE X-OCN 4K 2.39:1 files.
- Improved application start-up times.

The Catalyst Browse window

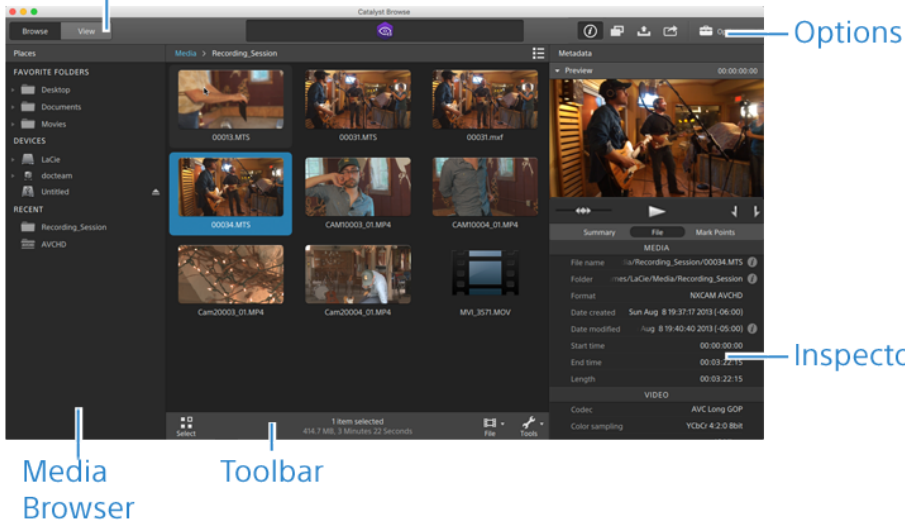
The Catalyst Browse window can be displayed in two modes:

- In Media Browser mode, you can use the Media Browser to browse your computer for media files, work with clip lists, and transcode files.
- In View mode, you can preview media, log mark in and out points, and adjust colors.

Click the **Media Browser** or **View** button at the top of the Catalyst Browse window to change modes.

Media Browser mode

Mode Selector



View mode

Mode Selector




Finding media


Media Browser mode allows you to browse the media files on drives and devices connected to your computer.


When you double-click a file in Media Browser view, the file is loaded in View mode, where you can preview it or edit it.


For more information, see ["Playing media" on page 29](#), ["Marking in and out points for playback" on page 35](#), ["Applying color correction" on page 51](#), or ["Viewing and editing metadata" on page 41](#).


 Catalyst Browse is designed to support clips from Sony cameras and devices. For expanded device support, please consider Catalyst Prepare.


The Media Browser is not available when Catalyst Browse is started in view-only mode.

 An  on a thumbnail indicates that an error was detected with the clip.


A  indicates a clip from an Optical Disc Archive volume.


An  on a thumbnail indicates a clip that contains stabilization metadata. For more information, see ["Stabilizing clips" on page 47](#).


 The stabilize icon is not displayed for clips on FTP devices, XDCAM Station volumes via CIFS, XDCAM decks, or Optical Disc Archive volumes.

An  on a thumbnail indicates that a clip spans multiple discs on an Optical Disc Archive volume. When you play a clip that spans discs, an indicator is displayed in the timeline to identify the point where the clip switches discs:



An  on a thumbnail indicates a clip that spans multiple files due to file-size limitations but is displayed in Catalyst Browse as a single virtual clip. Spanned XDCAM EX clips can be transcoded directly, but AVCHD clips must be copied first.

To transcode spanned AVCHD clips, first copy them to a new folder. After the copy is complete, the  indicator is removed, and the clips are combined in a new clip that you can transcode. For more information, see ["Transcoding clips" on page 75](#) or ["Copying clips" on page 79](#).

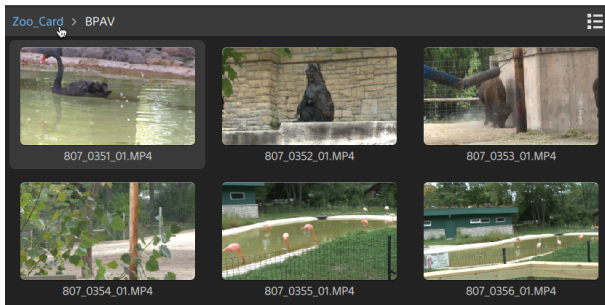
An  on a thumbnail indicates a proxy clip that does not have a full-resolution clip available.


Choosing a folder


Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.

Use the Media Browser to browse your computer for video files.

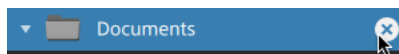
The top of the Media Browser will display the current folder and its parent folder. You can click the link to the parent folder to navigate up one level.




To navigate quickly, click the **File** button  at the bottom of the Media Browser and choose **Go to location**.


To add the current folder to the Favorite Folders list in the Places pane, click the **File** button  at the bottom of the Media Browser and choose **Add to Favorites**.

To remove a folder from the Favorite Folders list, select the folder in the Places pane and click the **X** button:



Connect to a device via FTP



Click the **Tools** button  in the Places pane and choose **Add remote server** to specify a server's connection settings.


To disconnect from a server, select the server in the Places pane and click the  button.


To reconnect to a server, click the server in the Remote Devices list.

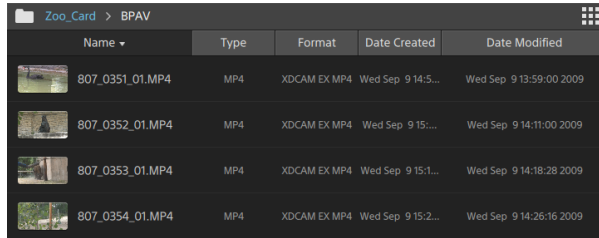
To remove a remote server from the Remote Devices list, select it and then click the **Tools** button in the Places pane and choose **Remove remote server**.





Displaying files in a list or thumbnail mode

Click the button to toggle thumbnail  and list  mode.


In thumbnail mode () , the Media Browser displays thumbnail images and file names.

In list mode () , you can click the headings in the Media Browser to sort the file list by various attributes. Click the heading again to sort in ascending or descending order. An arrow is displayed to indicate the current sorting method:




| Name | Type | Format | Date Created | Date Modified |
|---|------|--------------|-------------------|-------------------------|
|  807_0351_01.MP4 | MP4 | XDCAM EX MP4 | Wed Sep 9 14:5... | Wed Sep 9 13:59:00 2009 |
|  807_0352_01.MP4 | MP4 | XDCAM EX MP4 | Wed Sep 9 15:... | Wed Sep 9 14:11:00 2009 |
|  807_0353_01.MP4 | MP4 | XDCAM EX MP4 | Wed Sep 9 15:1... | Wed Sep 9 14:18:28 2009 |
|  807_0354_01.MP4 | MP4 | XDCAM EX MP4 | Wed Sep 9 15:2... | Wed Sep 9 14:26:16 2009 |

Searching for clips

1. Select the folder you want to search. Subfolders will be included in your search.
2. Click the **Search** button  to display the Search bar at the top of the Media Browser.
3. Type your search terms in the Search bar. The Media Browser displays all clips in the selected folder that contain your search terms in the file name or Summary metadata.

 Select a clip and click **Go to folder**  to navigate to a clip's folder.

Click the **Close** button  to close the Search bar and clear the search results from the Media Browser.

Select a different folder to clear your search terms and start a new search in the selected folder.

Selecting files


- Click a file to select it.
- Hold Shift and click the first and last file you want to select to select a range of files.
- Hold Ctrl (Windows) or Command (macOS) to select multiple files.


 Click the **Select** button  to select multiple files without using keyboard modifiers.

Copying files

Copying media allows you to import clips from cameras or decks to your computer, to another camera or deck, or to a centralized storage device. For more information, see ["Copying clips" on page 79](#).

Renaming files

1. Select a file.
2. Click the **File** button  at the bottom of the Media Browser, choose **Rename**, and type a new name in the edit box.


 You can also press F2 to rename the selected file.

Renaming is not available for proxy clips or clips that are part of an AVCHD folder structure.

 Renaming is not available when Catalyst Browse is started in view-only mode.


Deleting files

1. Select a file.
2. Click the **File** button  at the bottom of the Media Browser and choose **Delete**.

 Deleting files from an AVCHD folder structure is not supported.

 Deleting is not available when Catalyst Browse is started in view-only mode.

Showing source clips

1. Select a file.
2. Click the **File** button  at the bottom of the Media Browser and choose **Show in Finder** (macOS) or **Show in Explorer** (Windows) to view the source clip in its containing folder.

Managing SxS and Professional Disc volumes

If you need to format an SxS card, please use the [Memory Media Utility](#).

If you need to format or finalize an XDCAM Professional Disc volume, please use the [XDCAM Drive Software](#).

Supported video formats

Catalyst Browse supports reading the following video formats from volumes or as independent clips:

XDCAM

SD format

| Format | Frame Size | Frame Rate | Field Order | Video Codec | Bit Rate | Audio Channels |
|--------------|------------|------------|-------------|--------------|----------------|---------------------|
| DV | 720x480 | 59.94i | Lower | DV | 25 CBR | 4x16 bit |
| DV | 720x576 | 50i | Lower | DV | 25 CBR | 4x16 bit |
| MPEG IMX | 720x512 | 59.94i | Upper | MPEG-2 Intra | 30, 40, 50 CBR | 4x24 bit / 8x16 bit |
| MPEG IMX | 720x608 | 50i | Upper | MPEG-2 Intra | 30, 40, 50 CBR | 4x24 bit / 8x16 bit |
| Uncompressed | 720x486 | 59.94i | Upper | Uncompressed | 90 CBR | 4x24 bit / 8x16 bit |
| Uncompressed | 720x576 | 50i | Upper | Uncompressed | 90 CBR | 4x24 bit / 8x16 bit |

HD format

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Video Codec | Bit Rate |
|---------|------------|--------------------|-----------------------------------|-----------------|----------|
| MPEG HD | 1280x720 | 1.0 | 50p, 59.94p | MPEG-2 Long GOP | 25 CBR |
| MPEG HD | 1280x720 | 1.0 | 50p, 59.94p | MPEG-2 Long GOP | 35 VBR |
| MPEG HD | 1280x720 | 1.0 | 50p, 59.94p | MPEG-2 Long GOP | 50 CBR |
| MPEG HD | 1440x1080 | 1.333 | 23.976p, 25p, 29.97p, 50i, 59.94i | MPEG-2 Long GOP | 17.5 CBR |
| MPEG HD | 1440x1080 | 1.333 | 23.976p, 25p, 29.97p, 50i, 59.94i | MPEG-2 Long GOP | 25 CBR |
| MPEG HD | 1440x1080 | 1.333 | 23.976p, 25p, 29.97p, 50i, 59.94i | MPEG-2 Long GOP | 35 CBR |
| MPEG HD | 1440x540 | 0.667 | 23.976p, 25p, 29.97p, Over Crank | MPEG-2 Long GOP | 8.75 CBR |
| MPEG HD | 1440x540 | 0.667 | 23.976p, 25p, 29.97p, Over Crank | MPEG-2 Long GOP | 12.5 CBR |

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Video Codec | Bit Rate |
|------------|------------|--------------------|-----------------------------------|-----------------|----------------|
| MPEG HD | 1440x540 | 0.667 | 23.976p, 25p, 29.97p, Over Crank | MPEG-2 Long GOP | 17.5 CBR |
| MPEG HD422 | 1920x1080 | 1.0 | 23.976p, 25p, 29.97p, 50i, 59.94i | MPEG-2 Long GOP | 35 CBR, 50 CBR |
| MPEG HD422 | 1920x540 | 0.5 | 23.976p, 25p, 29.97p, Over Crank | MPEG-2 Long GOP | 25 CBR |

XDCAM EX

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Field Order | Video Codec | Audio Codec | Bit Rate |
|--------------------|------------|--------------------|-----------------------------------|-------------|-----------------|---------------------|----------|
| DV | 720x480 | 0.9091 | 59.94p | Lower | DV | PCM, 48 kHz, 16 bit | 25 CBR |
| DV | 720x576 | 1.0926 | 50i | Lower | DV | PCM, 48 kHz, 16 bit | 25 CBR |
| MPEG HD (EX-HQ) | 1280x720 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | | MPEG-2 Long GOP | PCM, 48 kHz, 16 bit | 35 VBR |
| MPEG HD (EX-SP) | 1440x1080 | 1.333 | 50i, 59.94i | | MPEG-2 Long GOP | PCM, 48 kHz, 16 bit | 25 CBR |
| MPEG HD (EX-HQ) | 1440x1080 | 1.333 | 23.976p, 25p, 29.97p, 50i, 59.94i | | MPEG-2 Long GOP | PCM, 48 kHz, 16 bit | 35 VBR |
| MPEG HD422 (EX-HQ) | 1920x1080 | 1.0 | 23.976p, 25p, 29.97p, 50i, 59.94i | | MPEG-2 Long GOP | PCM, 48 kHz, 16 bit | 35 VBR |

XAVC Intra

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Video Codec | Audio Channels (PCM, 48 kHz, 24 bit) | Bit Rate |
|----------------|------------|--------------------|--|------------------|--------------------------------------|----------|
| XAVC Intra | 1440x1080 | 1.333 | 50i, 59.94i, 23.976p, 25p, 29.97p | MPEG-4 AVC Intra | 8 | CBG 50 |
| XAVC Intra | 1920x1080 | 1.0 | 50i, 59.94i, 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8, 16 | CBG 100 |
| XAVC Intra | 1920x1080 | 1.0 | 50i, 59.94i, 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8 | CBG 200 |
| XAVC Intra HFR | 1920x1080 | 1.0 | 50p, 50i, 59.94p, 59.94i | MPEG-4 AVC Intra | 0 | CBG 100 |
| XAVC Intra | 2048x1080 | 1.0 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8 | VBR |
| XAVC Intra | 2048x1080 | 1.0 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8, 16 | CBG 100 |
| XAVC Intra | 3840x2160 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8 | VBR |
| XAVC Intra | 3840x2160 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8, 16 | CBG 300 |
| XAVC Intra | 4096x2160 | 1.0 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8 | VBR |
| XAVC Intra | 4096x2160 | 1.0 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Intra | 8, 16 | CBG 300 |

XAVC Long-GOP

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Video Codec | Audio | Bit Rate |
|-----------------|------------|--------------------|--|-----------------------------------|--|---------------|
| XAVC Long | 1280x720 | 1.0 | 50p, 59.94p | MPEG-4 AVC Long, High 422 Profile | 4-channel PCM, 48 kHz, 24 bit | 80 (Maximum) |
| XAVC Long | 1920x1080 | 1.0 | 23.976p, 25p, 29.97p, 50p, 50i, 59.94p, 59.94i | MPEG-4 AVC Long, High 422 Profile | 4-channel PCM, 48 kHz, 24 bit | 80 (Maximum) |
| XAVC Long | 3840x2160 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | 4-channel PCM, 48 kHz, 24 bit | 200 (Maximum) |
| XAVC Long Proxy | 480x270 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps MPEG-4 AAC, 6 (5.1) channels, 48 kHz, 640 kbps | 1 or .5 Mbps |
| XAVC Long Proxy | 640x360 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps MPEG-4 AAC, 6 (5.1) channels, 48 kHz, 640 kbps | 3 Mbps |
| XAVC Long Proxy | 1280x720 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps MPEG-4 AAC, 6 (5.1) channels, 48 kHz, 640 kbps | 9 Mbps |

XAVC S

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Video Codec | Audio | Bit Rate |
|-----------------|------------|--------------------|-----------------------------------|---|--|----------|
| XAVC Long Proxy | 480x270 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 4 |
| XAVC Long Proxy | 640x360 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 10 |
| XAVC Long | 1280x720 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 40 |
| XAVC Long Proxy | 1280x720 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 16 |
| XAVC Long | 1280x720 | 1.0 | 100p, 119.88p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 80 |
| XAVC Long | 1440x1080 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 80 |
| XAVC Long | 1920x1080 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 80 |
| XAVC Long | 1920x1080 | 1.0 | 100p, 119.88p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 150 |
| XAVC Long Proxy | 1920x1080 | 1.0 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 25 |
| XAVC Long | 3840x2160 | 1.0 | 23.976p, 25p, 29.97p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 188 |
| XAVC Long | 3840x2160 | 1.0 | 50p, 59.94p | MPEG-4 AVC Long, Main Profile or High Profile | 2-channel PCM or AAC, 48 kHz, 16 bit | 300 |

XAVC Proxy

| Format | Frame Size | Frame Rate | Video Codec | Audio | Bit Rate |
|------------|------------|--|---|--|----------|
| XAVC Proxy | 480x270 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 4 |
| XAVC Proxy | 640x360 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 10 |
| XAVC Proxy | 720x480 | 59.94i | MPEG-4 AVC Long, Main Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 10 |
| XAVC Proxy | 720x576 | 50i | MPEG-4 AVC Long, Main Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 10 |
| XAVC Proxy | 1280x720 | 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile or High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 28 |
| XAVC Proxy | 1920x1080 | 50i, 59.94i, 23.976p, 25p, 29.97p, 50p, 59.94p | MPEG-4 AVC Long, Main Profile or High Profile | MPEG-4 AAC, 2 channels, 48 kHz, 256 kbps | 28 |

X-OCN

| Format | Frame Size | Bits | Frame Rate | Quality |
|--------|------------|------|---|------------|
| X-OCN | 2048x1080 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 240) | LT, ST, XT |
| X-OCN | 3840x2160 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 120p) | LT, ST, XT |
| X-OCN | 4096x1716 | 16 | 23.976p, 24p, 25p, 29.97p | LT, ST, XT |
| X-OCN | 4096x2160 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 120p) | LT, ST, XT |
| X-OCN | 4096x3024 | 16 | 23.976p, 24p, 25p, 29.97p, | LT, ST, XT |
| X-OCN | 4096x3432 | 16 | 23.976p, 24p, 25p, 29.97p | LT, ST, XT |
| X-OCN | 6048x2534 | 16 | 23.976p, 24p, 25p, 29.97p | LT, ST, XT |
| X-OCN | 6054x3192 | 16 | 23.976p, 24p, 25p, 29.97p | LT, ST, XT |
| X-OCN | 5674x3192 | 16 | 23.976p, 24p, 25p, 29.97p | LT, ST, XT |
| X-OCN | 6054x3272 | 16 | 23.976p, 24p, 25p, 29.97p | LT, ST, XT |
| X-OCN | 6048x4032 | 16 | 23.976p, 24p, 25p | LT, ST, XT |

RAW

| Format | Frame Size | Bits | Frame Rate | Compression |
|-----------|------------|------|---|-------------|
| F5/F55RAW | 2048x1080 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 240) | SQ |
| F5/F55RAW | 3840x2160 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 120p) | SQ |
| F5/F55RAW | 4096x2160 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 120p) | SQ |
| F65RAW | 4096x2160 | 16 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p, HFR (max. 120) | Lite, SQ |
| FS700RAW | 2048x1080 | 16 | 23.976p, 25p, 29.97p, 50p, 59.94p, HFR (max. 240) | SQ |
| FS700RAW | 4096x2160 | 16 | 23.976p, 25p, 29.97p, 50p, 59.94p, HFR (max. 120) | SQ |

HDCAM SR (SStP)

| Format | Frame Size | Bits | Color Space | Pixel Aspect Ratio | Frame Rate | Compression (Mbps) |
|--------|------------|------|-------------|--------------------|---|---------------------|
| SSTP | 1280x720 | 10 | YUV 422 | 1.0 | 50p, 59.94p | Lite(220), SQ (440) |
| SSTP | 1920x1080 | 10 | YUV 422 | 1.0 | 50i, 59.94i, 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | Lite(220), SQ (440) |
| SSTP | 1920x1080 | 10 | RGB 444 | 1.0 | 50i, 59.94i, 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | SQ(440), HQ (880) |
| SSTP | 1920x1080 | 12 | RGB 444 | 1.0 | 50i, 59.94i, 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | HQ(880) |
| SSTP | 2048x1080 | 10 | YUV 422 | 1.0 | 50p, 59.94p | Lite(220), SQ (440) |
| SSTP | 2048x1080 | 10 | RGB 444 | 1.0 | 50i, 59.94i, 23.976p, 24p, 25p, 29.97p | SQ(440) |
| SSTP | 2048x1080 | 10 | RGB 444 | 1.0 | 23.976p, 24p, 25p, 29.97p | HQ(880) |
| SSTP | 2048x1080 | 12 | RGB 444 | 1.0 | 50i, 59.94i, 23.976p, 24p, 25p, 29.97p | SQ(440) |
| SSTP | 2048x1080 | 12 | RGB 444 | 1.0 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | HQ(880) |
| SSTP | 2048x1080 | 12 | RGB 444 | 1.0 | 23.976p, 24p, 25p, 29.97p | SQ(440) |
| SSTP | 2048x1080 | 12 | RGB 444 | 1.0 | 23.976p, 24p, 25p, 29.97p, 50p, 59.94p | HQ(880) |

| Format | Frame Size | Bits | Color Space | Pixel Aspect Ratio | Frame Rate | Compression (Mbps) |
|--------|------------|------|-------------|--------------------|-------------------|--------------------|
| SSTP | 2048x1556 | 10 | RGB 444 | 1.0 | 23.976p, 24p, 25p | HQ(880) |

NXCAM

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Video Codec | Audio Codec | Bit Rate |
|-----------|------------|--------------------|-----------------------------------|------------------|---|---------------|
| AVCHD | 1920x1080 | 1.0 | 59.94p, 50p, | H.264/MPEG-4 AVC | Dolby AC-3 or PCM 2 channels, 48 kHz, 16 bit | 28 Mbps |
| AVCHD | 1920x1080 | 1.0 | 59.94i, 50i, 29.97p, 25p, 23.976p | H.264/MPEG-4 AVC | Dolby AC-3 or PCM 2 channels, 48 kHz, 16 bit | 24 or 17 Mbps |
| AVCHD | 1280x720 | 1.0 | 59.94p, 50p | H.264/MPEG-4 AVC | Dolby AC-3 or PCM 2 channels, 48 kHz, 16 bit | 24 or 17 Mbps |
| AVCHD | 1440x1080 | 1.333 | 59.94i, 50i | H.264/MPEG-4 AVC | Dolby AC-3 or PCM 2 channels, 48 kHz, 16 bit | 9 or 5 Mbps |
| MPEG-2 SD | 720x480 | 0.9091 or 1.2121 | 23.976p, 29.97p, 59.94i | MPEG-2 | Dolby AC-3 2 channels, 48 kHz, 16 bit | 9 Mbps |
| MPEG-2 SD | 720x576 | 1.0926 or 1.4568 | 25p, 50i | MPEG-2 | Dolby AC-3 2 channels, 48 kHz, 16 bit | 9 Mbps |

AVC H.264/MPEG-4

| Format | Frame Size | Screen Aspect Ratio | Frame Rate | Video Codec | Audio Codec | Bit Rate |
|------------------|------------|---------------------|---------------------------------------|-------------|-------------------------------------|----------|
| H.264/MPEG-4 AVC | 1280x720 | 16:9 | 50p, 100p, 120p, | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1920x1080 | 16:9 | 24p, 25p, 30p, 48p, 50p, 60p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1920x1440 | 4:3 | 24p, 25p, 30p, 48p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 3840x2160 | 16:9 | 23.97p, 24p, 25p, 29.97p, 50p, 59.94p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 4096x2160 | 17:9 | 12p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 2704x1524 | 16:9 | 25p, 30p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 2704x1440 | 17:9 | 24p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1280x960 | 4:3 | 48p, 100p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 848x480 | 16:9 | 240p | AVC | Mono, 48kHz, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 640x480 | 4:3 | 25p, 30p | AVC | Mono, 48kHz, AAC compression w/ AGC | |

| Format | Frame Size | Screen Aspect Ratio | Frame Rate | Video Codec | Audio Codec | Bit Rate |
|------------------|------------|---------------------|---------------------------------------|-------------|--|----------|
| H.264/MPEG-4 AVC | 240x180 | | 25p, 29.97p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 320x180 | | 25p, 29.97p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 320x240 | | 25p, 29.97p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 480x270 | | 25p, 29.97p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 640x480 | | 25p, 29.97p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1280x720 | | 50p, 60p, 100p, 120p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1280x960 | | 48p, 100p, 120p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1920x1080 | | 24p, 25p, 29.97p, 48p, 50p, 60p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 1920x1440 | | 24p, 25p, 29.97p, 48p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 2704x1524 | | 24p, 25p, 29.97p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC | 3840x2160 | | 23.97p, 24p, 25p, 29.97p, 50p, 59.94p | AVC | 2 channels, 16 bit, AAC | |

| Format | Frame Size | Screen Aspect Ratio | Frame Rate | Video Codec | Audio Codec | Bit Rate |
|------------------------|------------|---------------------|------------|-------------|--|----------|
| | | | | | compression w/ AGC | |
| H.264/MPEG-4 AVC | 4096x2160 | | 12p | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC (HVO) | 720x480 | | 59.94i | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |
| H.264/MPEG-4 AVC (HVO) | 720x576 | | 50i | AVC | 2 channels, 16 bit, AAC compression w/ AGC | |

AS-11 DPP MXF

| Format | Frame Size | Frame Rate | Video Codec | Audio Codec | Bit Rate |
|------------|------------|------------|------------------|---------------------|----------|
| IMX-50 | 720x576 | 25 | MPEG-2 Intra | PCM, 48 kHz, 24 bit | |
| XAVC Intra | 1920x1080 | 25 | MPEG-4 AVC Intra | PCM, 48 kHz, 24 bit | |

Avid DNxHD®

Container: MXF

Audio Codec: PCM 44.1 kHz or 48 kHz, 16 bit or 24 bit

| Frame Size | Family Name | Color Space/Bits | Frame Rate/Maximum Bit Rate |
|------------|--|------------------|---|
| 1920x1080 | Avid DNxHD® 444 | 4:4:4 10 bit | 29.97p @ 440 Mbps, 25p @ 365 Mbps, 24p @ 350 Mbps, 23.976p @ 350 Mbps |
| 1920x1080 | Avid DNxHD® 220x | 4:2:2 10 bit | 60p @ 440 Mbps, 59.94p @ 440 Mbps, 50p @ 365 Mbps, 59.94i @ 220 Mbps, 50i @ 185 Mbps, 29.97p @ 220 Mbps, 25p @ 185 Mbps, 24p @ 175 Mbps, 23.976p @ 175 Mbps |
| 1920x1080 | Avid DNxHD® 220 | 4:2:2 8 bit | 60p @ 440 Mbps, 59.94p @ 440 Mbps, 50p @ 365 Mbps, 59.94i @ 220 Mbps, 50i @ 185 Mbps, 29.97p @ 220 Mbps, 25p @ 185 Mbps, 24p @ 175 Mbps, 23.976p @ 175 Mbps |
| 1920x1080 | Avid DNxHD® 145 | 4:2:2 8 bit | 60p @ 290 Mbps, 59.94p @ 290 Mbps, 50p @ 240 Mbps, 59.94i @ 145 Mbps, 50i @ 120 Mbps, 29.97p @ 145 Mbps, 25p @ 120 Mbps, 24p @ 115 Mbps, 23.976p @ 115 Mbps |
| 1920x1080 | Avid DNxHD® 145 (subsampled to 1440x1080) | 4:2:2 8 bit | 59.94i @ 145 Mbps, 50i @ 120 Mbps |
| 1920x1080 | Avid DNxHD® 100 (subsampled to 1440x1080) | 4:2:2 8 bit | 59.94i @ 100 Mbps, 50i @ 85 Mbps, 29.97p @ 100 Mbps, 25p @ 85 Mbps, 24p @ 80 Mbps, 23.976p @ 80 Mbps |
| 1920x1080 | Avid DNxHD® 36 | 4:2:2 8 bit | 60p @ 90 Mbps, 59.94p @ 90 Mbps, 50p @ 75 Mbps, 29.97p @ 45 Mbps, 25p @ 36 Mbps, 24p @ 36 Mbps, 23.976p @ 36 Mbps |
| 1280x720 | Avid DNxHD® 220x | 4:2:2 10 bit | 59.94p @ 220 Mbps, 50p @ 175 Mbps, 29.97p @ 110 Mbps, 25p @ 90 Mbps, 23.976p @ 90 Mbps |
| 1280x720 | Avid DNxHD® 220 | 4:2:2 8 bit | 59.94p @ 220 Mbps, 50p @ 175 Mbps, 29.97p @ 110 Mbps, 25p @ 90 Mbps, 23.976p @ 90 Mbps |
| 1280x720 | Avid DNxHD® 145 | 4:2:2 8 bit | 59.94p @ 145 Mbps, 50p @ 115 Mbps, 29.97p @ 75 Mbps, 25p @ 60 Mbps, 23.976p @ 60 Mbps |
| 1280x720 | Avid DNxHD® 100 (subsampled to 960x720) | 4:2:2 8 bit | 59.94p @ 100 Mbps, 50p @ 85 Mbps, 29.97p @ 50 Mbps, 25p @ 45 Mbps, 23.976p @ 50 Mbps |

Apple ProRes

Container: MOV

Audio Codec: PCM

| Format | Frame Size | Frame Rate | Video Codec |
|--------|------------|---|--|
| ProRes | 720x486 | 59.94i, 30p, 29.97p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 720x576 | 50i, 25p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 960x720 | 60p, 59.94p, 50p, 30p, 29.97p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 1280x720 | 60p, 59.94p, 50p, 30p, 29.97p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 1280x1080 | 59.94i, 30p, 29.97p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 1440x1080 | 59.94i, 50i, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 1920x1080 | 60p, 59.94p, 50p, 59.94i, 50i, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 2048x1080 | 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 2048x1556 | 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 3840x2160 | 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 4096x2160 | 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |
| ProRes | 5120x2160 | 60p, 59.94p, 50p, 30p, 29.97p, 25p, 24p, 23.976p | 422 (proxy), 422 (LT), 422, 422 (HQ), 4444, 4444 XQ (Windows only) |

HDV

Container: MPEG-2 Transport Stream (Windows), MOV (macOS)

Audio Codec: MPEG-1 Audio Layer-2 (Windows). 2 channels, 48 kHz, 16 bit

| Format | Frame Size | Pixel Aspect Ratio | Frame Rate | Interlace | Video Codec |
|--------|------------|--------------------|-------------|-----------|---------------|
| HDV | 1440x1080 | 1.333 | 50i, 59.94i | Upper | MPEG-2 MP@H14 |

DV

Container: AVI (Windows), MOV (macOS)

Audio Codec: PCM, 2 channels, 32 kHz, 16 bit

| Format | Frame Size | Frame Rate | Field Order | Video Codec | Bit Rate | Audio Channels |
|---------|------------|------------|-------------|-------------|----------|----------------------------|
| DV (SD) | 720x480 | 59.94i | Lower | DV | 25 CBR | 2 channels, 32 kHz, 16 bit |
| DV (SD) | 720x576 | 50i | Lower | DV | 25 CBR | 2 channels, 32 kHz, 16 bit |

Supported video devices

Catalyst Browse supports the following video volumes and devices:

| Folder Structure | Storage Media | Root Folder | Supported Format |
|------------------|---|-------------|---|
| XAVC-XD-Style | SxS memory card (exFAT) XQD memory card | XDROOT | XDCAM HD/HD422/IMX/DVCAM, SStP, XAVC Intra, XAVC Long |
| XAVC-M4-Style | SxS memory card (exFAT) XQD memory card SD card | M4ROOT | XAVC S |
| XAVC-PX-Style | SD card | PXROOT | XAVC Proxy |
| AXS-Style | AXS memory card | CINEROOT | F55RAW, F5RAW, FS700RAW, X-OCN |
| SRM-Style | SR memory card | Media root | F65RAW, SStP |
| XD-Style | Professional Disc SxS memory card (UDF) | Media root | XDCAM HD/HD422/IMX/DVCAM, XAVC Intra |
| BPAV-Style | SxS memory card (FAT32) SD card | BPAV | XDCAM EX (MPEG HD, DVCAM) |
| AVCHD structure | SD card | AVCHD/BDMV | AVCHD |

Playing media

When you double-click a file in Media Browser mode, the file is loaded in View mode, where you can preview the file, log mark in and mark out points, and apply color correction. For more information about using Media Browser mode, please see ["Finding media" on page 9](#).




You can use the toolbar at the top of the pane to adjust and monitor audio levels, select audio channels for preview, scale the video preview, view metadata, and adjust clip settings.

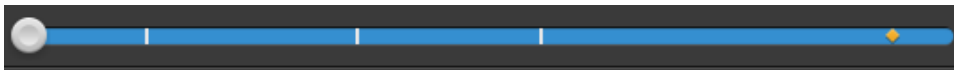
You can use the transport toolbar below the video to choose the playback mode, scrub the video, and control playback.


Previewing video


When you double-click a file in Media Browser mode, the file is loaded in View mode, where you can preview the file, log mark in and mark out points, and apply color correction. For more information about using Media Browser mode, please see ["Finding media" on page 9](#).

You can also choose to display the video preview in a secondary window that you can position anywhere on your screen or on a secondary display. For more information, see ["Editing Catalyst Browse options" on page 83](#).

 If you have multiple clips selected in the Media Browser on the left side of the window, the selected clips will play sequentially in the order they are displayed. The file name of the current file will be displayed above the video preview, and a vertical line in the timeline indicates where each selected clip begins:




A  indicates a clip from an Optical Disc Archive volume.

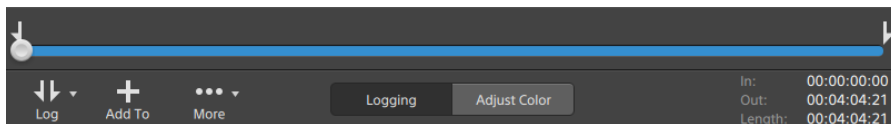
An  on a thumbnail indicates that a clip spans multiple discs on an Optical Disc Archive volume. When you play a clip that spans discs, an indicator is displayed in the timeline to identify the point where the clip switches discs:




Enable the **Preview using proxy clips** switch in Options if you want to use proxy clips for playback if they are available. During playback, a **Proxy** indicator is displayed above the video preview. For more information, see ["Editing Catalyst Browse options" on page 83](#).

Click the **Play**  button to start playing the current video. Playback will start from the playback position indicator and continue until the **Mark Out** position or the end of the file.

You can click the trackbar below the transport controls to set the play position indicator:

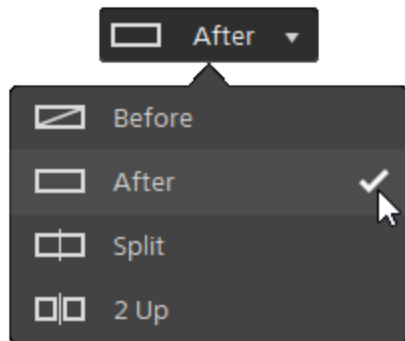





 For information about flipping the video, enabling anamorphic desqueezing, and displaying safe zone and mask guides, please see ["Editing clip settings" on page 38](#).

Changing the preview mode

When you're adjusting color correction, you can change the preview mode to allow you to compare adjusted clips to the original source. For more information, see ["Editing Color Adjustments controls" on page 51](#).

Click the **Preview** button in the top-right corner of the video preview to choose a preview mode. Split-screen previews allow you to split the video preview and waveform/histogram/vectorscope monitor so you can see your affected and unaffected video at the same time.




-  **Before:** full-frame video is displayed in its original state.
-  **After:** full-frame video is displayed in its color-corrected state.
-  **Split:** a single frame is displayed in a split-screen view with the original video on the left and the color-corrected video on the right.



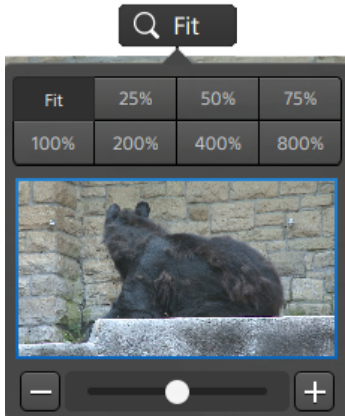
If you want to move the split location, hover over the preview frame. When the split point is displayed, you can drag the handles at the top or bottom of the screen to adjust where the preview is split:



-  **2 Up:** two full frames are displayed in a split-screen view with the original video on the left and the color-corrected video on the right.


Scaling the video preview

Click the magnifying glass to adjust the size of the video preview.



- Click **Fit** to scale the video to fill the Video pane.
- Click a preset to scale the video to a predefined magnification level.
When the level is below 100%, you can drag the blue rectangle to pan and adjust the visible portion of the frame.
- Drag the slider or click the **-** and **+** buttons to choose a custom zoom level.
- Click the thumbnail and roll your mouse wheel to zoom in or out.

Toggling full-screen playback

Click  to display the Video pane in full-screen mode. Press Esc or click the **Close** button to exit full-screen mode.

Adjusting playback settings

Click the **Playback Settings** button to the left of the transport controls to display the Playback Settings controls.

Speed/Quality





Select **Speed** if you want decoding to be optimized to preserve the frame rate.

Select **Quality** if you want decoding to be optimized to preserve video quality.

Real Time/All Frames







Select **Real Time** if you want to play the clip using its source frame rate. Audio is played at its recorded rate, and video frames are skipped if necessary to preserve the playback rate.

Select **All Frames** if you want to ensure that all video frames are played. The frame rate may be reduced if needed to ensure all frames are played. Audio is unavailable in this mode.

- Real Time/Speed: 
- Real Time/Quality: 
- All Frames/Speed: 
- All Frames/Quality: 

Using the transport controls

The transport controls below the video preview allow you to control playback:


| Button | Description |
|--|--|
|  Go to Start | Moves the playback position indicator to the Mark In position. Click again to move to the beginning of the selected file. |
|  Previous Frame | Moves the playback position indicator one frame or field to the left. |
|  Play | Playback will start from the playback position indicator and continue until the Mark Out position or the end of the file. |
|  Next Frame | Moves the playback position indicator one frame or field to the right. |
|  Go to End | Moves the playback position indicator to the Mark Out position. Click again to move to the end of the selected file. |
|  Loop Playback | Plays only the area between the Mark In and Mark Out points in a continuous mode. |
| | For more information, see "Marking in and out points for playback" on page 35. |

Navigating the timeline

After you open a file in View mode, drag the shuttle control to seek forward or backward from the play position indicator to find an edit point. As you drag toward the ends of the shuttle control, playback speed increases. Release the shuttle control to stop playback:



You can also press the J, K, or L keys to use the keyboard as a shuttle control.

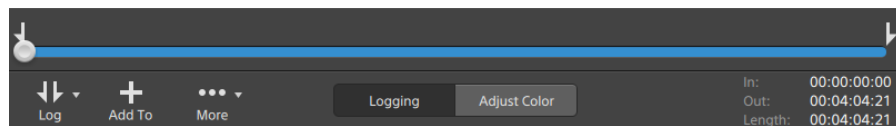
 Press and hold K while pressing J or L to emulate a shuttle knob mode. Press K+J to scrub left or K+L to scrub right.

| Item | Description |
|------|--|
| J | Scrub reverse mode. Press again to accelerate the playback rate. |
| K | Pause. |
| L | Scrub forward mode. Press again to accelerate the playback rate. |

Marking in and out points for playback

If you want to play only a portion of a video, you can select the portion of the video you want to play.

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a file in Media Browser mode to load it in View mode.
 - 💡 You can also use the Preview pane in Media Browser mode to adjust mark points.
3. Click the **Logging** button at the bottom of the Catalyst Browse window.
4. Click the trackbar below the transport controls to set the play position indicator:



If the current clip contains discontinuous timecode, an indicator is displayed in the timeline to identify the discontinuity:



5. Click the **Mark In** button.
6. Click the trackbar below the transport controls to set the play position indicator.
7. Click the **Mark Out** button.

When you click the **Play** button, playback will start from the playback position indicator and continue until the **Mark Out** position or the end of the file.

If you want to play the Mark In/Mark Out region in a continuous loop, select the **Loop Playback** button.

💡 You can quickly log mark in/out points by clicking the **In**, **Out**, and **Length** boxes at the bottom of the Catalyst Browse window and typing new timecode values. (Not available for MXF proxy-only clips with embedded timecode.)

Type new values in the **Mark in** and **Mark out** boxes on the Summary tab in the Inspector to edit the clip's mark in and mark out points. (Not available for MXF proxy-only clips with embedded timecode.) For more information, see ["Viewing and editing metadata" on page 41](#).

You can adjust mark in/out points by dragging the indicators above the trackbar.

To reset mark in/out points, click the **More** button and choose **Reset mark in/out points**.

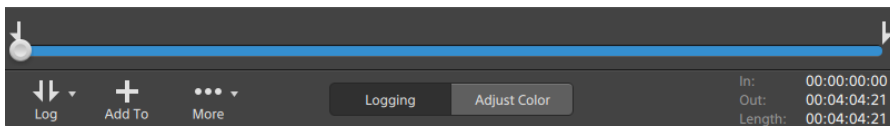
If the current file contains essence marks, they will be displayed on the timeline as diamonds. Essence marks are displayed in the Mark Points tab in metadata mode. For more information, see ["Viewing and editing metadata" on page 41](#).

Creating a snapshot of a frame


If you want to create a snapshot of the current frame, click the **More** button and choose **Copy snapshot to clipboard** or **Save snapshot**.

Copying a frame to the clipboard

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a file in Media Browser mode to load it in View mode.
3. Click the trackbar below the transport controls to set the play position indicator:



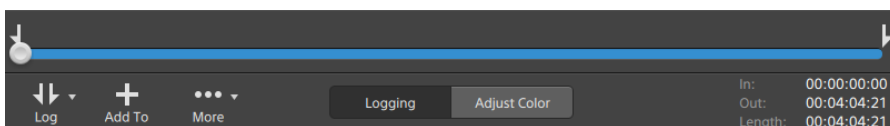
4. Click the **More** button and choose **Copy snapshot to clipboard**.

 Press Ctrl+C (Windows) or ⌘-C (macOS).


The current frame is copied to the clipboard at its current resolution. For example, if you want to copy a full-resolution frame, set your zoom level to 100%. You can change the size of the image using the magnifying glass button above the video preview. For more information, see "[Previewing video](#)" on page 30.

Saving a frame to a file

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a file in Media Browser mode to load it in View mode.
3. Click the trackbar below the transport controls to set the play position indicator:



4. Click the **More** button and choose **Save snapshot**.

 Press Shift+S.

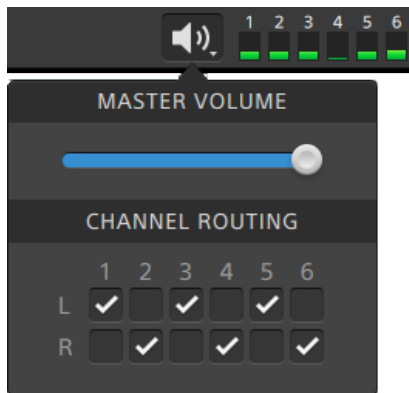
The current frame is saved at its current resolution. For example, if you want to save a full-resolution frame, set your zoom level to 100%.

You can change the size of the image using the magnifying glass button above the video preview. For more information, see ["Previewing video" on page 30](#).

You can save the location and format used for saving the file in Options. For more information, see ["Editing Catalyst Browse options" on page 83](#).

Adjusting and monitoring audio levels

Click the speaker in the activity pane at the top of the Catalyst Browse window to display audio controls.




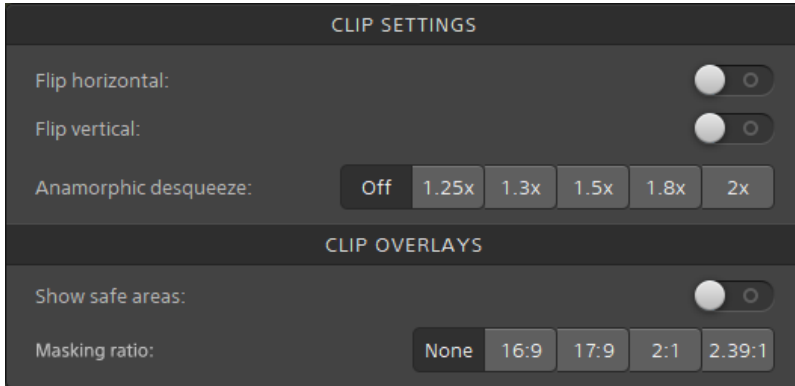
Drag the **Master Volume** fader to increase or decrease audio levels. During preview, the meters allow you to monitor the level of each audio channel.



If you want to choose which audio channels will be played, you can use the **Channel Routing** check boxes. In the example above, the 1st, 3rd, and 5th channels are played through the left speaker and the 2nd, 4th, and 6th channels are played through the right speaker.


 Catalyst Browse supports only stereo output devices.

Editing clip settings

Click the  button above the video preview to edit clip playback settings.




| Item | Description |
|----------------------|--|
| Flip horizontal | Click the Flip horizontal or Flip vertical switch to flip the left-to-right or top-to-bottom orientation of the video frame. |
| Flip vertical |  Select the Use flip and desqueeze settings check box in the Export pane if you're working with video that was filmed with an anamorphic lens and want to preserve the Flip horizontal and Flip vertical , and Anamorphic desqueeze settings when transcoding. When the check box is not selected, letterboxing will be applied. For more information, see "Transcoding, copying, and sharing clips" on page 75. |
| Anamorphic desqueeze | Select a desqueeze button to apply anamorphic stretching to widescreen video, or click Off to turn off stretching. |
| Show safe areas | Click the switch to enable safe area guides and a center point in the video preview. When Show safe areas is enabled, Catalyst Browse displays rectangles marking 90% (action safe area) and 80% (title safe area) of the frame to serve as guidelines for framing.  Overlays are not displayed when using full-screen preview. |
| Masking ratio | Select a masking button to enable shading in the video preview to indicate how your content will appear. |

| Item | Description |
|------|---|
| | <p data-bbox="618 243 1289 279"> Overlays are not displayed when using full-screen preview.</p> <p data-bbox="667 300 1349 401">Select Use masking ratio from the Crop type drop-down list in the Export pane if you want to preserve the selected masking ratio when transcoding.</p> <p data-bbox="667 422 1333 485">For more information, see "Transcoding, copying, and sharing clips" on page 75.</p> |

Working with clips


Viewing and editing metadata

When you're in Media Browser or View mode, click the **Inspector** button  in the toolbar to display metadata for the currently selected file in the Inspector pane.

Click the **Summary** tab to view summary information associated with the file.


Click the **File** tab to view details about the source media and its metadata, including GPS information (if present).

Click the **Mark Points** tab to view essence marks embedded in the file.


If the current file contains essence marks, they will be displayed on the timeline as a diamond .

If the current clip contains discontinuous timecode, an indicator is displayed in the timeline to identify the discontinuity:



 When a clip list is selected in Browse mode, the Metadata pane displays additional information about the currently selected clip list. When a clip list is open in View (Clip List or Clip) mode, the Metadata pane displays information about the selected subclip. For more information, see ["Working with clip lists" on page 42](#).

 Editing metadata is not available when Catalyst Browse is started in view-only mode.

 When you edit the metadata for a proxy file, the metadata for the full-resolution clip is updated when you copy the proxy clip back to the device. For more information, see ["Copying files" on page 12](#).


Editing mark in/out points

Click the Summary tab.

Type new values in the **Mark in** and **Mark out** boxes to edit the clip's mark in and mark out points. For more information, see ["Marking in and out points for playback" on page 35](#).

Editing summary metadata

1. Click the Summary tab.

Click the **Unlock** button  to enable editing summary information for the selected files.

2. Edit the **Status**, **Title**, **Creator**, and **Description** settings as needed.

When editing metadata for multiple selected files, **(multiple values)** is displayed if the files' metadata does not match. Editing the value will replace the metadata for all selected files.

3. Click **Save**  to save the edited metadata values, or click **Revert**  to discard your edits.

 Not all media formats support summary metadata.

Editing essence marks

1. Select a clip to display its metadata.
2. Click the Mark Points tab.
3. Click an essence mark's label or timecode value to type a new value.

 Adding and editing essence marks is supported only for XDCAM MXF clips and requires write access to the volume.


Editing essence marks is not available when FTP-based clips are selected.

Adding a mark point

1. Select a clip to display its metadata.
2. Click the Mark Points tab.
3. Click the trackbar below the video preview to set the cursor position where you want to add a mark point (or click the timecode display to move the cursor to a specific location).
4. Click the **Add Point** button or press E.

 Adding and editing essence marks is supported only for XDCAM MXF clips and requires write access to the volume.




Deleting a mark point

1. Select a clip to display its metadata.
2. Click the Mark Points tab.
3. Click an essence mark's label or timecode to select it.
4. Click the **Delete** button .

 The **Delete** command is not available when FTP-based clips are selected.




Working with clip lists

You can create and edit clip lists for the following media types:





- XDCAM media in an XD root folder .
- XAVC media in an XD root folder .
- RAW media in an AxS folder .



A clip list is a PD-EDL (.smi) file that allows you to create a video project that is comprised of multiple, shorter video clips.

Clip lists are a helpful part of a proxy workflow when working with limited bandwidth: copy the proxy clips to your computer, create a clip list using the proxy clips, and then copy the clip list back to the camera or deck. The deck will then play the clip list using your full-resolution source.

 When viewing a clip list,  indicates spanned clips from the same volume, and  indicates spanned clips from different volumes.



Creating a clip list

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Navigate to the root folder  or  that contains the clips you want to use.
3. Select the files you want to include in your clip list. You can hold Shift or Control (Windows) /  (macOS) to select multiple files.
4. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **New clip list from selection** from the menu.

 If you want create a clip list without choosing clips, click the **Tools** button  at the bottom of the Catalyst Browse window and choose **New empty clip list** from the menu.

5. Type a name for the new clip list and click **OK**.
6. Catalyst Browse loads your new clip list in View mode.

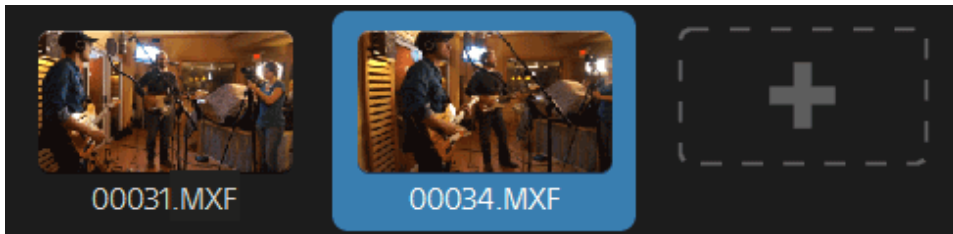
Opening a clip list

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Navigate to the root folder  or  that contains the clip list you want to open.
3. Double-click the clip list (.smi file) to open it.

Rearranging clips

In Clip List mode, you can add, remove, and arrange clips in the clip list. Click the **Clip List** button at the bottom of the Catalyst Browse window to switch to Clip List mode.

You can drag clips within the clip list to rearrange them. Drag a clip and drop it to a new position on the clip list to change its position.

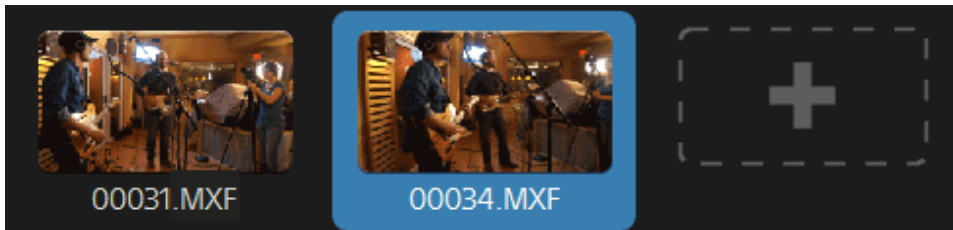



Adding clips

In Clip List mode, you can add, remove, and arrange clips in the clip list. Click the **Clip List** button at the bottom of the Catalyst Browse window to switch to Clip List mode.

 You can only add clips from the folder where the clip list (.smi) file is saved.

Click the add button at the end of the clip list to display a media browser, where you can select additional clips for your clip list.



 You can click the **Add** button at the bottom of the Catalyst Browse window when you're in Clip List mode.

When you add a clip, a vertical line is added to the timeline to indicate where each clip begins:



Removing clips


In Clip List mode, you can add, remove, and arrange clips in the clip list. Click the **Clip List** button at the bottom of the Catalyst Browse window to switch to Clip List mode.

Select a clip and click the **Remove** button  at the bottom of the Catalyst Browse window.


Editing clips

In Clip mode, you can log mark in and out points for your clips.

 You cannot add, delete or rearrange clips in Clip mode. Use Clip List mode for clip list editing.

1. Open the clip list you want to edit.
2. Click the **Clip** button at the bottom of the Catalyst Browse window to switch to Clip mode.
 You can also double-click a clip in Clip List mode to switch to Clip mode.
3. Select the clip you want to edit.
4. Use the **Mark In** and **Mark Out** buttons to adjust the mark in and out points for the selected clip.
For more information, see "[Marking in and out points for playback](#)" on page 35.

Viewing metadata for clip lists


When you're in Media Browser or View mode, click the **Inspector** button  in the toolbar to display metadata in the Inspector pane.

In Browse mode, the Metadata pane displays additional information about the currently selected clip list.

In View (Clip List or Clip) mode, the Metadata pane displays information about the selected subclip.

For more information, see "[Viewing and editing metadata](#)" on page 41.


Writing a clip list back to a device

Select a clip list in Media Browser mode and click the **Copy** button  at the top of the Catalyst Browse window to write a clip list back to a device. For more information, see "[Copying clips](#)" on page 79.

Working with EDLs


You can use Catalyst Browse to import an EDL.


Importing an EDL


1. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Import EDL**. The Import EDL dialog is displayed.
2. Select the EDL you want to import.
3. Choose a setting from the **Frames per second** drop-down list to set the frame rate of the EDL.
4. Click **Import**. The EDL Import workspace is displayed with the contents of the EDL.

Linking and unlinking clips

After you import an EDL, you can use the EDL Import workspace to link and unlink clips.

To link your clips, select a clip, click the **Link** button  (or double-click an unlinked clip's thumbnail) and browse for the source media.

 If other unlinked clips exist in the folder, they will be linked automatically. If you want to link only the selected clip, clear the **Automatically link clips** check box.

To unlink a clip, select it and click the **Unlink** button . If you want to unlink all clips, click the **More** button and choose **Unlink all** from the menu.

Replacing clips


You can use the **Replace media** command to replace a clip in an EDL with a different media file.

1. Select a clip in the EDL.
2. Click the **More** button and choose **Replace media** from the menu.
3. Browse to the new clip and click **OK**.

Combining relay clips

You can use Catalyst Browse to combine AVCHD relay-recorded clips into a single clip.


A relay clip is a continuous recording that spans multiple media cards.

 Before combining relay clips, copy them to a single folder. For more information, see ["Copying clips" on page 79](#).

1. Select the clips you want to combine.



Clips must be of the same operating point and the timecode must be sequential.

2. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Combine relay clips**. The Combine Relay Clips dialog is displayed.




The **Combine relay clips** command is not available when FTP-based clips are selected.

3. In the **Combined file name** box, type the name you want to use for the new clip.
4. Click **OK**.

Synchronizing multicamera clips

You can use Catalyst Browse to synchronize audio in clips from a multicamera shoot.

When you synchronize clips, the mark-in points of the selected clips are adjusted as needed to allow the clips to play in synchronization. Synchronizing your clips in Catalyst Browse streamlines the process of editing multicamera video in a nonlinear editor.

1. Select the MXF clips you want to synchronize.
2. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Synchronize multicam clips**.

Progress is displayed while the clips are analyzed and synchronized.






The **Synchronize multicam clips** command is not available when FTP-based clips are selected.


Stabilizing clips

Catalyst Browse allows you to use metadata from clips to stabilize the image.


1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.

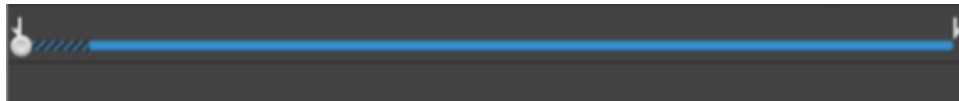
2. Select the clip you want to stabilize. An  on a thumbnail indicates a clip that contains stabilization metadata.
3. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Stabilize clip**. The clip is analyzed, and the Stabilize Clip workspace is displayed.

 The stabilize icon is not displayed for clips on FTP devices, XDCAM Station volumes via CIFS, XDCAM decks, or Optical Disc Archive volumes.


 If you cancel analysis, click **Stabilize** at the bottom of the workspace to analyze the clip.

4. Use the Stabilize Clip workspace to preview and adjust stabilization settings for the selected clip:
 - a. Set the Mark In/Out points to indicate the portion of the clip you want to scan. For more information, see ["Marking in and out points for playback" on page 35](#).


 If stabilization metadata is not available, it will be indicated by cross-hatching in the timeline.



- b. Choose a **Stabilization mode** setting:
 - Select the **Auto** button in the Inspector to adjust stabilization automatically.
 - Select the **Manual** button if you want to adjust stabilization settings:

| Item | Description |
|---|--|
| Cropping ratio | Drag the slider to set the maximum amount of cropping that can be applied to stabilize a clip. |
|  | When stabilizing a clip using a Cropping ratio setting larger than the default value, clips with significant camera shake may exhibit a black border around the frame. We recommend using a Cropping ratio setting that is close to the default value. You can double-click the slider handle to reset the setting to its default. |

3. Click the **Before/After** button in the top-right corner of the video preview to choose a preview mode so you can compare your original and stabilized video before applying the changes, and then use the transport controls below the timeline to preview the clip.
 - **Before**: the clip is displayed in its original state.
 - **After**: the cropped and stabilized clip is displayed.


4. To save a clip with the stabilization settings, click the **Export** button  at the top of the Catalyst Browse window, and use the Export pane to choose a destination and format for your exported files.




For more information about the controls, please see ["Transcoding clips" on page 75](#).



Repairing flash bands

When a camera flash is fired, it can create a band of light in your video.


Catalyst Browse can detect and remove flash bands.

 Flash-band repair is not available when Catalyst Browse is started in view-only mode.



1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Select the clip you want to repair.
3. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Repair flash bands**. The Flash Band workspace is displayed.
4. Use the Flash Band workspace to identify the flash bands you want to repair:
 - a. Set the Mark In/Out points to indicate the portion of the clip you want to scan. For more information, see ["Marking in and out points for playback" on page 35](#).
 - b. Click the **Detect** button  to scan the clip and mark flash bands automatically. A marker  is added to the timeline, and an entry is created in the Inspector.

 Automatic flash band detection is available only for MXF clips. To mark a flash band manually, click the trackbar below the transport controls to set the play position indicator and click the **Add** button  in the Inspector.

Please note that automatic and manual flash-band repair can yield different results.


To remove a flash band marker, select it in the Inspector and click the **Delete** button .

Click the **Before/After** button in the top-right corner of the video preview to choose a preview mode so you can compare your original and repaired video before applying the changes.

-  **Before**: full-frame video is displayed in its original state.
 -  **After**: full-frame video is displayed in its repaired state.
5. Click **Repair**. The transcode dialog is displayed to allow you to choose settings for the repaired file.
For more information, see ["Transcoding clips" on page 75](#).


Applying color correction

If you've used multiple cameras within a project or if the lighting varies between shots, the resulting clips can look noticeably different. You can use color correction to minimize the differences or to apply an artistic look to your clips.

 Color-correction settings are applied globally to all clips. If you want to save your color-correction settings, you can transcode clips to create new files. For more information, see ["Transcoding, copying, and sharing clips" on page 75](#).

 Color correction is not available when Catalyst Browse is started in view-only mode.


Editing Color Adjustments controls

You can use the Color Adjustments controls in the Inspector  to perform color grading that is applied globally to all clips. If you want to save your color-correction settings, you can transcode clips to create new files. For more information, see ["Transcoding clips" on page 75](#).

 Color adjustments are not available when Catalyst Browse is started in view-only mode.

Loading a clip/clip list for color adjustments and configuring the waveform, histogram, and vectorscope monitors


1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip or clip list in the Media Browser to load it.

 Color adjustments are available only in View mode.




3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In the Adjust Color workspace, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.

The waveform/histogram/vectorscope monitor and video preview window allow you to monitor your progress as you adjust color values.


The **Preview color space** setting in Options is also applied to the waveform, histogram, and vectorscope so you can check your video using scopes. For more information, see ["Choosing a color space for the video preview and external monitor"](#) on page 85.



- Click the **Waveform** button  at the bottom of the window to toggle the waveform monitor.

The waveform monitor displays the luminance values (brightness or Y component) of your video signal. The monitor plots luminance values on the vertical axis and the width of the current frame on the horizontal axis.

You can use the buttons at the top of the waveform monitor to display overlaid () or separate () RGB waveforms and isolate colors .


Waveform settings

Click the **Settings** button  to open the Waveform Settings menu. You can use the Waveform Settings menu to change the scale of the waveform monitor and enable AIR matching when grading HDR clips.

 The **Settings** button  is available only when the **Working color space** drop-down is set to **Rec.2020/S-Log3 (HDR)** and the **Preview color space** drop-down is set to **Rec.2020/S-Log3**, **Rec.2020/HLG**, **Rec.2020/HLG AIR Matching**, **Rec.2020/HLG (bypass OOTF)**, **Rec.2020/PQ**, **Rec.2020/PQ AIR Matching**, or **Rec.2020/PQ (bypass OOTF)**.


For more information, see ["Choose a setting from the Working color space drop-down list to choose the color space that will be used for color grading."](#) on page 84 or ["Choosing a color space for the video preview and external monitor"](#) on page 85.

You can click the **%** or **Nits** button to change the units displayed in the waveform.






 When the **Preview color space** is set to **Rec.2020/HLG**, **Rec.2020/HLG AIR Matching**, or **Rec.2020/HLG (bypass OOTF)**, the **Nits** value is calculated for a peak luminance of 1000 cd/m².


When the **Preview color space** drop-down is set to **Rec.2020/S-Log3**, you can use the **AIR Matching** switch to toggle AIR (Artistic Intent Rendering) matching to achieve a consistent look between Rec.2020/S-Log3-based grading and a configured HLG (hybrid log-gamma) or PQ (perceptual quantizer) monitor.

 The **AIR Matching** switch is automatically turned on when the **Preview color space** drop-down is set to **Rec.2020/HLG AIR Matching** or **Rec.2020/PQ AIR Matching**.

- Click the **Histogram** button  at the bottom of the window to toggle the histogram monitor.

The histogram monitor displays the number of pixels that exist for each color intensity. The vertical axis represents the number of pixels, and the horizontal axis represents the RGB color range from 0,0,0 to 0,0,255.

You can use the buttons at the top of the histogram monitor to display overlaid () or separate () RGB histograms and isolate colors   .


- Click the **Vectorscope** button  at the bottom of the window to toggle the vectorscope monitor.

The vectorscope monitor allows you to monitor the chroma values (color content) of your video signal. The monitor plots hue and saturation on a color wheel.


The vectorscope displays targets for broadcast-legal saturations of red (R), magenta (Mg), blue (B), cyan (Cy), green (G), and yellow (Yl). Individual colors in your video signal are displayed as dots in the vectorscope. A dot's distance from the center of the scope represents its saturation, and the angle of the line from the dot to the center of the scope represents its hue.

For example, if an image has a blue cast, the distribution of dots in the vectorscope will be concentrated toward the blue portion of the color wheel. If the image includes out-of-range blue values, the vectorscope display will extend beyond the blue target.

You can use the vectorscope to calibrate color between scenes. Without calibration, you may see noticeable color differences between scenes from multicamera shoots.

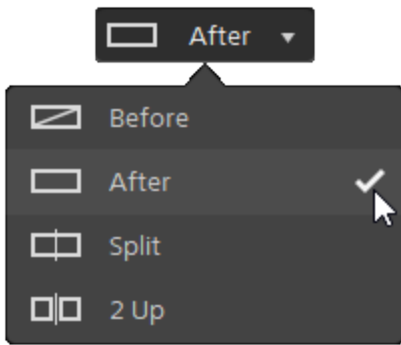
Click the **Settings** button  to open the Vectorscope Settings menu.





The Vectorscope Settings menu allows you to toggle a monochrome view of the scope, change the scale of the scope, adjust the brightness of the colors displayed in the scope, and adjust the brightness of the scope's guide (graticule).

 Use the 75% **Scale** setting when performing color correction for broadcast, or use the 100% setting when performing color correction for film or Web distribution with a wider color gamut.


- The video preview window displays the current frame at the playback position indicator.

Click the **Preview** button in the top-right corner of the video preview to choose a preview mode. Split-screen previews allow you to split the video preview and waveform/histogram/vectorscope monitor so you can see your affected and unaffected video at the same time.



-  **Before:** full-frame video is displayed in its original state.
 -  **After:** full-frame video is displayed in its color-corrected state.
 -  **Split:** a single frame is displayed in a split-screen view with the original video on the left and the color-corrected video on the right.
-  If you want to move the split location, hover over the preview frame. When the split point is displayed, you can drag the handles at the top of bottom of the screen to adjust where the preview is split:



-  **2 Up:** two full frames are displayed in a split-screen view with the original video on the left and the color-corrected video on the right.


Adjusting the color wheels

In the Adjust Color workspace, the bottom of the Catalyst Browse window provides color wheels for Lift, Gamma, and Gain. The wheels provide a visual representation of the current levels and allow you to adjust color quickly. As you adjust the controls, the waveform/histogram/vectorscope monitor and video preview will update in real time to allow you to check your progress.


The color wheels are used to edit ASC-CDL (American Society of Cinematographers Color Decision List) parameters.


Click the **Wheels** button  to show or hide the color wheels.

Drag the point in the center of the color wheel to pick the hue and saturation you want to add to the video, or drag the slider on the side of the color wheel to increase luminance for all RGB components simultaneously. You can double-click the point to reset the color wheel or double-click the slider handle to reset the luminance.


 When you drag the color correction controls, they move in fine increments. To move controls in larger increments, hold Shift while dragging.



Choosing a color space

Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Color Space section in the Inspector pane provides color space controls that you can use to choose the source and conversion color spaces.

 If the selected color space is not compatible with the source color space and cannot be exported, a warning is displayed to notify you.

Choosing a source color space


Click the **Unlock** button  and choose a setting from the **Source** drop-down list to choose the color space that should be applied to the source media. When you choose a setting, the video preview is updated. The source color space should be detected automatically and does not need to be changed in most cases.

 The **Unlock** button  is not used when editing RAW or X-OCN video.

Converting between HDR/wide color gamut color spaces


When an HDR or wide color gamut color space is selected in the **Source** drop-down list, you can choose a different HDR/WCG color space from the **Convert to** drop-down list to apply grading in the selected color space or apply a look profile that is available in the selected color space.

You can also convert HDR/WCG clips to Rec.709 by choosing **Convert to > 709(800)**. The 709 (800) setting applies a 1D curve. If you want to use a 3D LUT to convert HDR/WCG clips, you will need to apply a look profile.

 The **Convert to** drop-down is available only when the **Working color space** setting is **Rec.709**, **Log**, or **ACES** and you're working with S-Gamut, RAW, and X-OCN source media,


For more information, see ["Applying a look profile" on page 57](#), ["Grading with hypergamma conversion" on page 64](#), or ["High Dynamic Range \(HDR\) color grading" on page 68](#).

Viewing the working color space

The **Working** box displays the color space that will be used for color grading. Click the **Options**  button and choose a setting from the **Working color space** drop-down list to change the setting.


 Click the **Reset** button  at the bottom of the Inspector pane to reset the **Source** and **Convert to** color space based on the clip's metadata.

Viewing the color space for the video preview


The **Preview** box displays the color space that will be used for the Catalyst Browse video preview window. Click the **Options**  button and choose a setting from the **Preview color space** drop-


down list to change the setting.

Viewing the color space for the external monitor

If an external monitor is enabled, the **External monitor** box displays the color space that will be used for the external monitor. Click the **Options**  button and choose a setting from the **External monitor color space** drop-down list to change the setting.

Adjusting exposure, temperature, and tint

Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Source Settings section in the Inspector pane provides the **Exposure**, **Temperature**, and **Tint** sliders to adjust the color content of your clip.


 Exposure, temperature, and tint are not available for all color spaces.

- Drag the **Exposure** slider to adjust the overall brightness of your video.
- Drag the **Temperature** slider to adjust the color temperature (in Kelvin) of your video. Adjusting the temperature modifies the red and blue gain by adding an offset to the temperature setting saved in a clip's metadata.
- Drag the **Tint** slider to adjust color balance of your video. Adjusting the tint allows you to modify the magenta and green gain to supplement the color temperature setting by adding an offset to the tint setting saved in a clip's metadata.



 Double-click a control to reset its value.


Applying a look profile


You can use the **Look profile** drop-down list to apply a look profile/LUT to a clip.

Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Look section in the Inspector pane contains the **Look profile** drop-down list.

The **Look profile** drop-down is available only when the Source Color Space **Convert to** drop-down list is set to **S-Gamut/S-Log2** or **S-Gamut3.Cine/S-Log3** and the **Working color space** drop-down list set to **Rec.709**.

 If you want to set a default look profile to be applied when no look profile is specified in a clip's metadata, choose a setting from the **Look profile** drop-down list, click the **Look Tools** button , and choose **Make default**.

To replace the clip's current look profile with the default, click the **Look Tools** button , and choose **Reset to default**.

Click the **Reset** button  at the bottom of the Inspector pane to reset the **Look profile** based on the clip's metadata.




To add look profiles (including .cube files) to Catalyst Browse, save them in the following folder and then close and restart the application:

Windows: C:\Users\






macOS: /Users/<user>/Documents/Sony/Catalyst/Color/Looks/

- The **sgamut-slog2** subfolder is used for S-Gamut/S-Log2 sources.
- The **sgamut3cine-slog3** subfolder is used for S-Gamut3.Cine/S-Log3 sources or **Convert to** choices.
- The **sgamut3-slog3** subfolder is used for S-Gamut3/S-Log3 sources or **Convert to** choices.


Adjusting the tone curve

Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Tone Curve section in the Inspector pane contains a color curve you can use to adjust the red, green, and blue channels graphically. As you adjust the controls, the waveform/histogram/vectorscope monitor and video preview will update in real time to allow you to check your progress.


The tone curve controls are used to edit look-up tables (LUTs).

- Select the channel you want to adjust by clicking the **Red**, **Green**, or **Blue** button below the color curve   , or click the **White** button to adjust all RGB components simultaneously.
- Click the curve to add a control point.
- Select a control point and drag it to adjust it.
- As you adjust the controls, the waveform/histogram/vectorscope monitor and video preview will update in real time to allow you to check your progress. Click **Delete Point**  to remove the selected control point.
- Click the **Reset** button  at the bottom of the Inspector pane to remove all control points.

Adjusting the color correction sliders


Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Color Correction section in the Inspector pane provides **Brightness**, **Contrast**, **Saturation**, **Lift**, **Gamma**, and **Gain** sliders you can use to adjust the values of the red, green, and blue channels. As you adjust the controls, the waveform/histogram/vectorscope monitor and video preview will update in real time to allow you to check your progress.

The sliders are used to edit ASC-CDL (American Society of Cinematographers Color Decision List) parameters.

 For precise control, you can hold Ctrl (Windows) or ⌘ (macOS) or click the numeric value to type a new value.

Drag the **Brightness** slider to adjust the overall lightness of your video.

Drag the **Contrast** slider to adjust the overall contrast of your video.

 Brightness and contrast are not saved explicitly with ASC-CDL files. When exporting an ASC-CDL file, the **Brightness** and **Contrast** settings are incorporated with the other color-correction values. When you reload an exported ASC-CDL file, the **Brightness** and **Contrast** settings will be set to 0.

When exchanging color settings with Catalyst Browse and Catalyst Prepare, click the **Tools** button



at the bottom of the Catalyst Browse window and choose **Save preset** from the menu to preserve **Brightness** and **Contrast** settings.


For more information, see ["Exporting color-correction settings" on page 70](#) and ["Applying color-correction settings" on page 60](#).

Drag the **Saturation** slider to adjust the overall intensity of the color in your video.

To adjust lift, gamma, and gain, drag the **R**, **G**, **B** sliders to adjust the red, green, and blue components of the each parameter, or drag the **Y** slider to adjust luminance for all RGB components simultaneously.

 Double-click a control to reset its value.

Click the **Undo**  and **Redo**  buttons to step forward or backward through your recent edits.

Click the **Reset** button  at the bottom of the Inspector pane to reset all color correction.



Applying color-correction settings

You can use the **Tools** button  at the bottom of the Catalyst Browse window to load color presets or ASC-CDL (American Society of Cinematographers Color Decision List) files to exchange color-grading information.

 Color correction is not available when Catalyst Browse is started in view-only mode.

Applying a color preset

Color presets include the source settings (exposure, temperature, and tint), look profile, tone curve, and ASC-CDL settings. For more information, see ["Editing Color Adjustments controls" on page 51](#).

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window.
4. Click the **Inspector** button  in the toolbar to display the Inspector pane.
5. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Load preset** from the menu.
6. In the Load Preset dialog, choose a Catalyst color (.ccolor) file.

 Presets are saved in the following folders by default:




Windows: C:\Users\

macOS: /Users/<user>/Documents/Sony/Catalyst/Color

7. Click **Load**.

The selected color settings are loaded and applied to all clips that you open.


Applying an ASC-CDL file

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
 Color correction is available only in View mode.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window.
4. Click the **Inspector** button  in the toolbar to display the Inspector pane.
5. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Load ASC-CDL** from the menu.
6. In the Load ASC-CDL dialog, choose a *.cdl file.
7. Click **Load**.

The selected color settings are loaded and applied to all clips that you open.

Using a Tangent control

You can use Tangent Element Tk, Kb, Bt, Mf, Vs, or Tangent Wave control panels to adjust color circles and other parameters.

 Tangent Element panels must be connected to your computer via USB. When using Tangent Element-Vs on a tablet, your tablet and the computer running Catalyst Browse must be connected to the same network.


To enable control, Tangent Hub must be installed on the computer.

For more information about using and configuring Tangent hardware and software, please refer to the Tangent documentation.


For information about control mappings, please see the control's display or use the Tangent Mapper application.

Video-style (Rec.709) color grading



Use the following workflow when adjusting color grading for video sources.


You can use the Color Adjustments controls in the Inspector  to perform color grading that is applied globally to all clips. If you want to save your color-correction settings, you can transcode clips to create new files. For more information, see ["Transcoding clips" on page 75](#).


Grading with Rec.709 gamma

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
 Color correction is available only in View mode.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.

The waveform/histogram/vectorscope monitor and video preview window allow you to monitor your progress as you adjust color values. For more information, see ["Editing Color Adjustments controls" on page 51](#).

4. Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Inspector pane provides controls that you will use to adjust color-grading settings.
5. The **Source** drop-down list displays the color space that is applied to your source media. Click the **Unlock** button  and choose a setting from the **Source** drop-down list to choose the color space that should be applied to the source media. When you choose a setting, the video preview is updated.

 The source color space should be detected automatically and does not need to be changed in most cases.

- Choose **S-Gamut/S-Log2** for S-Log2, RAW, or X-OCN sources.
 - Choose **S-Gamut3.Cine/S-Log3** or **S-Gamut3/S-Log3** for S-Log3, RAW, or X-OCN sources.
6. The **Working** box displays the color space that should be applied to color grading adjustments. Click the **Options**  button and choose **Rec.709** from the **Working color space** drop-down list to change the setting if necessary.
 7. If your source video is set to **S-Gamut/S-Log2**, **S-Gamut3.Cine/S-Log3**, **S-Gamut3/S-Log3**, **Rec.2020/S-Log3**, **Rec.2020/HLG**, or **Rec.2020/PQ**, you can use the Source Settings controls to adjust the **Exposure**, **Temperature**, and **Tint** of your clip. For more information, see ["Editing Color Adjustments controls" on page 51](#).



8. If your source video is set to **S-Gamut/S-Log2**, **S-Gamut3.Cine/S-Log3**, or **S-Gamut3/S-Log3**, choose a setting from the **Look profile** drop-down list to choose the profile that is applied to convert your video to Rec.709 (full).




To add look profiles (including .cube files) to Catalyst Browse, save them in the following folder and then close and restart the application:

Windows: C:\Users\



macOS: /Users/<user>/Documents/Sony/Catalyst/Color/Looks/


- The **sgamut-slog2** subfolder is used for S-Gamut/S-Log2 sources.
 - The **sgamut3cine-slog3** subfolder is used for S-Gamut3.Cine/S-Log3 sources or **Convert to** choices.
 - The **sgamut3-slog3** subfolder is used for S-Gamut3/S-Log3 sources or **Convert to** choices.
9. Use the color wheels and controls in the Inspector pane to adjust your colors as needed. For more information, see ["Editing Color Adjustments controls" on page 51](#).
 10. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu if you want to export your settings as a 3D LUT file.
-  3D LUT export is available only when the **Source** drop-down list is set to an S-Log, RAW, or X-OCN format.


Grading with hypergamma conversion

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
 Color correction is available only in View mode.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.


The waveform/histogram/vectorscope monitor and video preview window allow you to monitor your progress as you adjust color values. For more information, see ["Editing Color Adjustments controls" on page 51](#).

4. Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Inspector pane provides controls that you will use to adjust color-grading settings.
5. The **Source** drop-down list displays the color space that is applied to your source media. Click the **Unlock** button  and choose a setting from the **Source** drop-down list to choose the color space that should be applied to the source media. When you choose a setting, the video preview is updated.


 The source color space should be detected automatically and does not need to be changed in most cases.


- Choose **S-Gamut/S-Log2** for S-Log2, RAW, or X-OCN sources.
 - Choose **S-Gamut3.Cine/S-Log3** or **S-Gamut3/S-Log3** for S-Log3, RAW, or X-OCN sources.
6. The **Working** box displays the color space that should be applied to color grading adjustments. Click the **Options**  button and choose **Rec.709** from the **Working color space** drop-down list to change the setting if necessary.
 7. From the **Convert to** drop-down list, choose **709(800)**, **HG8009G33**, or **HG8009G40**.

 When you select **None**, output will be S-Log. When you select **HG8009G33**, or **HG8009G40**, output will be Rec.709 full.

 The **Convert to** drop-down is available only when the **Working color space** setting is **Rec.709**, **Log**, or **ACES** and you're working with S-Gamut, RAW, and X-OCN source media,


8. If your source video is set to **S-Gamut/S-Log2**, **S-Gamut3.Cine/S-Log3**, **S-Gamut3/S-Log3**, **Rec.2020/S-Log3**, **Rec.2020/HLG**, or **Rec.2020/PQ**, you can use the Source Settings controls to adjust the **Exposure**, **Temperature**, and **Tint** of your clip. For more information, see ["Editing Color Adjustments controls" on page 51](#).
9. Use the color wheels and controls in the Inspector pane to adjust your colors as needed. For more information, see ["Editing Color Adjustments controls" on page 51](#).

10. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu if you want to export your settings as a 3D LUT file.

 3D LUT export is available only when the **Source** drop-down list is set to an S-Log, RAW, or X-OCN format.

Log (cinematic) color grading

Use the following workflow when adjusting color grading for Log sources.

You can use the Color Adjustments controls in the Inspector  to perform color grading that is applied globally to all clips. If you want to save your color-correction settings, you can transcode clips to create new files. For more information, see ["Transcoding clips" on page 75](#).


1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.


2. Double-click a clip in the Media Browser to load it.

 Color correction is available only in View mode.


3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.

The waveform/histogram/vectorscope monitor and video preview window allow you to monitor your progress as you adjust color values. For more information, see ["Editing Color Adjustments controls" on page 51](#).

4. Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Inspector pane provides controls that you will use to adjust color-grading settings.

5. The **Source** drop-down list displays the color space that is applied to your source media. Click the **Unlock** button  and choose a setting from the **Source** drop-down list to choose the color space that should be applied to the source media. When you choose a setting, the video preview is updated.


- Choose **S-Gamut/S-Log2** for S-Log2, RAW, or X-OCN sources.
- Choose **S-Gamut3.Cine/S-Log3** or **S-Gamut3/S-Log3** for S-Log3, RAW, or X-OCN sources.

6. The **Working** box displays the color space that should be applied to color grading adjustments. Click the **Options**  button and choose **Log** from the **Working color space** drop-down list to change the setting if necessary.

7. If your source video is set to **S-Gamut/S-Log2**, **S-Gamut3.Cine/S-Log3**, or **S-Gamut3/S-Log3**, you can use the Source Settings controls to adjust the **Exposure**, **Temperature**, and **Tint** of your clip. For more information, see ["Editing Color Adjustments controls" on page 51](#).

8. Use the color wheels and controls in the Inspector pane to adjust your colors as needed. For more information, see ["Editing Color Adjustments controls" on page 51](#).
9. Choose a setting from the **Look profile** drop-down list to choose the profile that is applied to convert your video to Rec.709 (full).


When you choose **None** from the **Look profile** drop-down list, the output will be S-Log.

 To add look profiles (including .cube files) to Catalyst Browse, save them in the following folder and then close and restart the application:

Windows: C:\Users\\Documents\Sony\Catalyst\Color\Looks\

macOS: /Users/<user>/Documents/Sony/Catalyst/Color/Looks/


- The **sgamut-slog2** subfolder is used for S-Gamut/S-Log2 sources.
- The **sgamut3cine-slog3** subfolder is used for S-Gamut3.Cine/S-Log3 sources or **Convert to** choices.
- The **sgamut3-slog3** subfolder is used for S-Gamut3/S-Log3 sources or **Convert to** choices.

10. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu if you want to export your settings as a 3D LUT file.

 3D LUT export is available only when the **Source** drop-down list is set to an S-Log, RAW, or X-OCN format.

Advanced cinematic (ACES) color grading

Use the following workflow when adjusting color grading in the Academy Color Encoding System (ACES) color space.





You can use the Color Adjustments controls in the Inspector  to perform color grading that is applied globally to all clips. If you want to save your color-correction settings, you can transcode clips to create new files. For more information, see ["Transcoding clips" on page 75](#).

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.


 Color correction is available only in View mode.

3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.

The waveform/histogram/vectorscope monitor and video preview window allow you to monitor your progress as you adjust color values. For more information, see ["Editing Color Adjustments controls" on page 51](#).


4. Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Inspector pane provides controls that you will use to adjust color-grading settings.
5. The **Source** drop-down list displays the color space that is applied to your source media. Click the **Unlock** button  and choose a setting from the **Source** drop-down list to choose the color space that should be applied to the source media. When you choose a setting, the video preview is updated.
 - Choose **S-Gamut/S-Log2** for S-Log2, RAW, or X-OCN sources.
 - Choose **S-Gamut3.Cine/S-Log3** or **S-Gamut3/S-Log3** for S-Log3, RAW, or X-OCN sources.
6. The **Working** box displays the color space that should be applied to color grading adjustments. Click the **Options**  button and choose **ACES** from the **Working color space** drop-down list to change the setting if necessary.
7. If your source video is set to **S-Gamut/S-Log2**, **S-Gamut3.Cine/S-Log3**, or **S-Gamut3/S-Log3**, you can use the Source Settings controls to adjust the **Exposure**, **Temperature**, and **Tint** of your clip. For more information, see ["Editing Color Adjustments controls" on page 51](#).
8. Use the color wheels and controls in the Inspector pane to adjust your colors as needed. For more information, see ["Editing Color Adjustments controls" on page 51](#).
9. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu if you want to export your settings as a 3D LUT file.

Output will be Rec.709 (full).


 3D LUT export is available only when the **Source** drop-down list is set to an S-Log, RAW, or X-OCN format.

High Dynamic Range (HDR) color grading

Use the following workflow to adjust color grading in the Rec.2020/S-Log3 color space and then convert to high dynamic range (Rec.2020/S-Log3, Rec.2020/HLG, or Rec.2020/PQ) or standard dynamic range (Rec.2020 or Rec.709) color spaces for distribution.

You can use the Color Adjustments controls in the Inspector  to perform color grading that is applied globally to all clips. If you want to save your color-correction settings, you can transcode clips to create new files. For more information, see ["Transcoding clips" on page 75](#).

1. Adjust Catalyst Browse options for HDR color grading:


- a. Click the Options button .
- b. From the **Working color space** drop-down list, choose **Rec.2020/S-Log3 (HDR)**.

When you choose **Rec.2020/S-Log3** from the **Working color space** drop-down list, you can enable the **SDR gain** switch to convert between standard- and high-dynamic-range content.

Adjusting SDR gain

When the switch is enabled, you can drag the **Gain** slider to choose the gain that is applied when reading SDR content or when exporting to an SDR format or displaying on an SDR display.

For example, if you set the slider to -6.0 dB, a linear gain of +6.0 dB (2.0x) is applied when reading SDR content, and a linear gain of -6.0 dB (0.5x) is applied when exporting to an SDR format or displaying on an SDR display.

 When using knee parameters on the Sony HDRC-4000 HDR Production Converter Unit, please enable ABS mode and confirm the R, G, B values in the HDRC-4000. Adjust the values in Catalyst Prepare to match. Using different R, G, B values is not supported.

- c. From the **Preview color space** drop-down list, choose the color space for the Catalyst Browse video preview window.

In most cases, choose **Rec.709** for your computer monitor, or you can choose other settings to check your video using scopes. For more information, see ["Loading a clip/clip list for color adjustments and configuring the waveform, histogram, and vectorscope monitors" on page 51](#).

- d. From the **External monitor color space** drop-down list, choose the setting that matches the EOTF (electro-optical transfer function) setting on your external monitor.

 You can use the AIR Matching (Artistic Intent Rendering) or bypass OOTF settings to achieve a consistent look between external-monitor previews and rendered clips.

Using AIR Matching to monitor using the S-Log3 (Live HDR) EOTF

Sony BVM-X300 version 2.0 monitor settings:

- Color Space: ITU-R BT.2020
- EOTF: S-Log3 (Live HDR)
- Transfer Matrix: ITU-R BT.2020
- In the Catalyst Browse Options menu, choose **Rec.2020/S-Log3** from the **External monitor color space** drop-down list.

Content mastered using these settings and rendered to HLG or PQ with AIR Matching should have the same look on HLG or PQ monitors or televisions.

Using bypass OOTF to monitor using the S-Log3 (HDR) EOTF

Sony BVM-X300 version 2.0 monitor settings:

- Color Space: ITU-R BT.2020
- EOTF: S-Log3 (HDR)
- Transfer Matrix: ITU-R BT.2020
- In the Catalyst Browse Options menu, choose **Rec.2020/S-Log3** from the **External monitor color space** drop-down list.

Content mastered using these settings and rendered to HLG or PQ with bypass OOTF should have the same look on HLG or PQ monitors or televisions.

Converting HDR media to SDR color spaces

When converting HDR media to standard dynamic range color spaces, use the following settings to preserve your Rec.2020/S-Log3 grading (the dynamic range of the HDR color space will be clamped to the BT.709 gamma curve):

- In Options, set the **Working color space** to **Rec.2020/S-Log3 (HDR)**.
- In Options, enable the **SDR gain** switch and adjust the control to choose the gain curve that will be applied when exporting to an SDR format or displaying on an SDR display.
- In Options, set the **Preview color space** for the video preview to **Rec.709** or **Rec.2020**.

When converting HDR media to standard dynamic range color spaces, use the following settings to preserve more of the dynamic range of the original HDR media:





- In Options, set the **Working color space** to **Rec. 709**.
 - In the Inspector, set the **Convert to** color space to **709(800)**, **HG8009G33**, or **HG8009G40**.
- e. From the **External monitor device** drop-down list, choose the device where you've connected a monitor that supports the Rec.2020 color gamut and an HDR luminance curve, such as the Sony BVM-X300.
 - f. From the **Monitor resolution** drop-down list, choose the appropriate resolution for your external monitor.
2. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
 3. Double-click a clip in the Media Browser to load it.



Color correction is available only in View mode.

4. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.

The waveform/histogram/vectorscope monitor and video preview window allow you to monitor your progress as you adjust color values. For more information, see ["Editing Color Adjustments controls" on page 51](#).


5. Click the **Inspector** button  in the toolbar to display the Inspector pane. In the Adjust Color workspace, the Inspector pane provides controls that you will use to adjust color-grading settings.
6. Use the color wheels and controls in the Inspector pane to adjust your colors as needed. For more information, see ["Editing Color Adjustments controls" on page 51](#).
7. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu if you want to export your settings as a 3D LUT file.

Output will use the **External monitor color space** drop-down list in the External Monitor section of the Options menu (selected in step 1d above).



3D LUT export is available only when the **Source** drop-down list is set to an S-Log, RAW, or X-OCN format.

Exporting color-correction settings

You can use the **Tools** button  at the bottom of the Catalyst Browse window to export color-correction settings to cameras for on-set monitoring or to a nonlinear editor (NLE) for color grading.







Color correction is not available when Catalyst Browse is started in view-only mode.


Saving a color preset


Color presets include the source settings (exposure, temperature, and tint), look profile, tone curve, and


ASC-CDL settings. For more information, see ["Editing Color Adjustments controls" on page 51](#).


1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
 Color correction is available only in View mode.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window.
4. Click the **Inspector** button  in the toolbar to display the Inspector pane.
5. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Save preset** from the menu.
6. In the Save Preset dialog, type a file name to identify your Catalyst color (.ccolor) file.
 Presets are saved in the following folders by default:
Windows: C:\Users\macOS: /Users/<user>/Documents/Sony/Catalyst/Color
7. Click **OK**.


Exporting an ASC-CDL file

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
 Color correction is available only in View mode.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.


4. Click the **Inspector** button  in the toolbar to display the Inspector pane and adjust your color settings as needed. For more information, see ["Editing Color Adjustments controls" on page 51.](#)

 Saturation and color wheel/slider settings are saved with ASC-CDL files. Tone curve settings are not saved.

 Brightness and contrast are not saved explicitly with ASC-CDL files. When exporting an ASC-CDL file, the **Brightness** and **Contrast** settings are incorporated with the other color-correction values. When you reload an exported ASC-CDL file, the **Brightness** and **Contrast** settings will be set to 0.




When exchanging color settings with Catalyst Browse and Catalyst Prepare, click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Save preset** from the menu to preserve **Brightness** and **Contrast** settings.




For more information, see ["Exporting color-correction settings" on page 70](#) and ["Applying color-correction settings" on page 60.](#)

5. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu.
6. Use the Export As dialog box to specify the folder, file name, and settings you want to export:
 - a. Use the browser to select the folder where you want to save your file.
 - b. In the **File name** box, type the path and file name you want to save your color-correction settings.
 - c. Choose **ASC-CDL** from the **Format** drop-down list.
7. Click **Export**.

Exporting a 3D LUT for Resolve or HDLink

When the source is Sony RAW, X-OCN, S-Gamut/S-Log2, S-Gamut3.Cine/S-Log3, or S-Gamut3/S-Log3, you can export a 3D LUT in Resolve or HDLink format.

1. Click the **Media Browser** button at the top of the Catalyst Browse window to view the Media Browser.
2. Double-click a clip in the Media Browser to load it.
 Color correction is available only in View mode.
3. Click the **Adjust Color** button at the bottom of the Catalyst Browse window. In this mode, Catalyst Browse displays a waveform/histogram/vectorscope monitor, a video preview, and color controls that you can use to adjust the appearance of your video.
4. Click the **Inspector** button  in the toolbar to display the Inspector pane and adjust your color settings as needed. For more information, see "[Editing Color Adjustments controls](#)" on page 51.
5. Click the **Tools** button  at the bottom of the Catalyst Browse window and choose **Export color settings** from the menu.

6. Use the Export As dialog box to specify the folder, file name, and settings you want to export:
 - a. Use the browser to select the folder where you want to save your file.
 - b. In the **File name** box, type the file name you want to save your color-correction settings.
 - c. Choose **3D LUT Resolve** or **3D LUT HDLink** from the **Format** drop-down list.
 - d. Choose a setting from the **Input color space** drop-down list to specify the color space of your source media.
 - e. Choose a setting from the **Output color space** drop-down list to specify the color space that will be used as the output of the LUT.
 -  Output color space is available only when the **Working color space** color space to **Rec.2020/S-Log3 (HDR)**. For more information, see "[High Dynamic Range \(HDR\) color grading](#)" on page 68.
 - f. Select the **Source settings** check box if you want to include exposure, temperature, and tint settings with your LUT.
 - g. Select the **Convert to setting** check box if you want to export your LUT using the color space selected in the **Convert to** drop-down list in the Inspector.
 -  The **Tone curve** and **Color correction** check boxes are available only when **Convert to setting** is selected.
 - h. Select the **Tone curve** check box if you want to include the tone curve from the Inspector in your LUT.
 - i. Select the **Color correction** check box if you want to include the color correction adjustments curve from the Inspector in your LUT.
 - j. Select the **Look profile** check box if you want to include the selected look profile from the Inspector in your LUT. The LUT file will be saved in the folder you selected in step 6a.
 -  The **Look profile** check box is available only when the grading color space is **Rec.709**.
7. Click **Export**.

Transcoding, copying, and sharing clips

Catalyst Browse allows you to convert clips to another format or copy them in their source format.

Transcoding clips


Transcoding clips allows you to convert clips to another format. The original clips are not affected (overwritten, deleted, or altered) during the exporting process.

1. Select the clips you want to export in Media Browser or Edit mode.

The left pane allows you to navigate the folders, and the middle pane displays the contents of the selected folder

- Click a file to select it.
- Hold Shift and click the first and last file you want to select to select a range of files.
- Hold Ctrl (Windows) or ⌘ (macOS) to select multiple files.





Click the **Select** button  to select multiple files without using keyboard modifiers.




When transcoding multiple files, all files must use the same source settings.



An  on a thumbnail indicates a clip that spans multiple files due to file-size limitations but is displayed in Catalyst Browse as a single virtual clip. Spanned XDCAM EX clips can be transcoded directly, but AVCHD clips must be copied first.

To transcode spanned AVCHD clips, first copy them to a new folder. After the copy is complete, the  indicator is removed, and the clips are combined in a new clip that you can transcode. For more information, see ["Copying clips" on page 79](#).

2. Click the **Export** button  at the top of the Catalyst Browse window, and use the Export pane to choose a destination and format for your exported files.
3. The **Export clips to** box displays the path to the folder where the selected files will be exported. You can type a path in the box or click the **Browse** button to choose a folder.

4. If you want to rename files, select the **Rename files** check box. Renaming ensures that source files will not be overwritten.

- Type a string in the **Prefix** box if you want to start all file names with the same text.
- Choose a setting from the **Numbering** drop-down list to indicate whether you want to number clips or use their original file names.
- Type a string in the **Suffix** box if you want to end all file names with the same text.

For example, if you wanted to name clips using a convention such as **Commercial_001_Camera1.mxf**, you would type **Commercial_** in the **Prefix** box, choose **3 digits** from the **Numbering** drop-down list, and type **_Camera1** in the **Suffix** box.




If you're exporting a still-image sequence for use in an editor that has specific file-naming requirements, you can use the **Rename files** controls to ensure your exported files are compliant with your editor's requirements.

5. The Source Metadata section shows you the file name, format, frame size, and frame rate of the selected clip.






Source metadata is not displayed when a clip list is selected.

6. Use the Transcode Settings section to choose the format for your exported files. If you need to reset the transcode settings to their default values, click the **Reset** button .

- a. When exporting to a video format, choose a setting from the **Output color space** drop-down list to choose the color space that will be used for rendering the new files.


You can choose **Same as preview** or **Same as external monitor** (if an external monitor is enabled) to match the output color space and color adjustments to your video preview or external monitor setting. For more information, see "[Choosing a color space for the video preview and external monitor](#)" on page 85.

 If the selected color space includes color adjustments, the color adjustments icon  is displayed in white and a ToolTip notifies you that color adjustments will be included. If the selected color space does not include color adjustments, the color adjustments icon  is displayed in gray and a ToolTip notifies you that color adjustments will be excluded.

If the selected output color space is not compatible with the source color space, a warning is displayed to notify you that the clip cannot be exported using the current settings.

- b. Choose a setting from the **Format** drop-down list to indicate the file format you want to use for your exported files.


 **Format** settings that are not supported by the selected **Output color space** will not be available.

 When transcoding to DPX format, you can type a value in the **Starting frame index** box to append a numeric index to transcoded file names.

OpenEXR is available only for S-Gamut, RAW, or X-OCN sources when **Output color space** is set to **ACES, Rec.2020/Linear, S-Gamut/Linear** or **S-Gamut3/Linear**.

ProRes is available on macOS only.

- c. Choose a setting from the **Frame size** drop-down list to choose the dimensions of the rendered frame, or choose **Same as source** to match the selected clip.
- d. Choose a setting from the **Frame rate** drop-down list to choose the number of frames per second for the rendered clip, or choose **Same as source** to match the selected clip.
- e. Choose a setting from the **Render preset** drop-down list to choose the settings that will be used for the exported files.

 Choose the **Best match** preset if you want Catalyst Browse to choose the most appropriate preset for each selected clip.

 **Render preset** settings that are not supported by the selected **Output color space** and **Format** will not be available.

- f. If you want to create a file with segmented body partitions, select the **Create Sony Professional Disc partitions** or **Create segmented body partitions** check box. When the check box is cleared, the file will use a single body partition.



The **Create Sony Professional Disc partitions** check box is available only when **XDCAM** is selected in the **Format** drop-down list. **Create segmented body partitions** is available only when **XAVC Intra** or **XAVC Long** is selected in the **Format** drop-down list.



Files created with segmented body partitions may not be recognized properly by some Sony camcorders, decks, or servers.

7. Enable the **Use advanced settings** switch if you need to adjust additional transcoding settings.

- a. Choose a setting from the **Crop type** drop-down list to choose the aspect ratio for your transcoded file:
- o **None (letterbox/pillarbox)**: if the source frame is wider than the destination frame, black bars are displayed at the top and bottom (letterbox). If the source frame is narrower than the destination frame, black bars are displayed on the sides of the frame (pillarbox).
 - o **Center crop (cut edges)**: if the source frame does not match the output frame, the frame is centered, and the edges are cropped as needed.
 - o **Use masking ratio**: crops the frame to the masking ratio selected in the Clip Settings menu. For more information, see ["Editing clip settings" on page 38](#).
- b. Choose a setting from the **Encode mode** drop-down list to choose whether you want to optimize image quality or transcoding speed.
- c. Select the **Use flip and desqueeze settings** check box if you're working with video that was filmed with an anamorphic lens and want to preserve the **Flip horizontal**, **Flip vertical**, and **Anamorphic desqueeze** settings when transcoding. When the check box is not selected, letterboxing will be applied.

For more information, see ["Editing clip settings" on page 38](#).

- d. Select the **Repair flash bands automatically** check box if want to automatically detect and repair flash bands when transcoding.

For more information, see ["Repairing flash bands" on page 49](#).

- e. Select the **Use mark in/out points** check box if you want to transcode only the portion of the video between the mark in and mark out points. For more information, see ["Marking in and out points for playback" on page 35](#).


- f. Select the **Add padding to clips** check box and type a number in the **Seconds** box if you want to preserve media before the mark in/mark out points.

8. Click **Export**.

Progress is displayed in the activity pane at the top of the Catalyst Browse window. Each export job can contain multiple files if you have multiple files selected in step 2 above. If you have multiple export jobs queued, a separate progress indicator is displayed for each job.

Copying clips



Copying media allows you to import clips from cameras or decks to your computer, to another camera or deck, or to a centralized storage device.




 You can drag a clip to a folder on a drive or device in the Places pane to copy the entire clip (with no transcoding, color correction, or renaming).


1. Select the clips you want to copy in Media Browser or Edit mode.

The left pane allows you to navigate the folders on your computer, and the middle pane displays the contents of the selected folder

- Click a file to select it.
- Hold Shift and click the first and last file you want to select to select a range of files.
- Hold Ctrl (Windows) or ⌘ (macOS) to select multiple files.



 Click the **Select** button  to select multiple files without using keyboard modifiers.

 An  on a thumbnail indicates a clip that spans multiple files due to file-size limitations but is displayed in Catalyst Browse as a single virtual clip. After you copy a spanned AVCHD clip, the  indicator is removed, and the clips are combined in a new clip that you can transcode. For more information, see ["Transcoding clips" on page 75](#).

2. Click the **Copy** button  at the top of the Catalyst Browse window.


3. Use the Copy pane to choose a destination for your files.

- a. The **Copy clips to** box displays the path to the folder where the selected files will be copied. You can type a path in the box or click the **Browse** button to choose a folder.

 Click **Go to folder**  to swap the source and destination folders: the **Copy files to** folder will be displayed in the Media Browser, and the previous Media Browser folder will be used in the **Copy files to** box.


Copying to an AVCHD folder structure is not supported.

- b. Select the **Create subfolder** check box if you want to copy the selected clips to a subfolder in the destination.


 The **Create subfolder** check box is not available when copying to a known folder structure.

- c. Select the **Copy all related media** radio button if you want to copy all media related to the selected clips (metadata.proxy clips, and extra files).


- d. Select the **Copy proxy only** radio button if you want to copy only proxy-resolution clips and all media related to the selected clips (metadata.proxy clips, and extra files).

 When you edit the metadata for a proxy file, the metadata for the full-resolution clip is updated when you copy the proxy clip back to the device. For more information, see "[Viewing and editing metadata](#)" on page 41.

- e. Select the **Copy only between mark points** check box if you want to copy only the media between the in and out points when copying files. For more information, see "[Marking in and out points for playback](#)" on page 35.

 The **Copy only between mark points** check box is available only when copying MXF clips.


- f. If you want to create a file with segmented body partitions, select the **Create Sony Professional Disc partitions** or **Create segmented body partitions** check box. When the check box is cleared, the file will use a single body partition.

 The **Create Sony Professional Disc partitions** check box is available only when **XDCAM** is selected in the **Format** drop-down list. **Create segmented body partitions** is available only when **XAVC Intra** or **XAVC Long** is selected in the **Format** drop-down list.


 Files created with segmented body partitions may not be recognized properly by some Sony camcorders, decks, or servers.

- g. Select the **Use fast device-to-device copy** check box if you want to copy clips directly between Sony devices via FTP (FTPS protocol is not supported).

When this check box is selected, clips are copied directly between the devices without copying to your computer.

 **Device access is not available during a fast device-to-device copy:**


- Copy progress is not displayed.
 - Device-to-device copy operations cannot be canceled.
- h. Select the **Preserve source UMID** check box if you want to preserve a clip's UMID (Unique Material Identifier) when copying it to an FTP device. When the check box is cleared, the clip's UMID may be changed when it is copied to the device.

 The **Preserve source UMID** check box is available when copying from a local drive to a Sony FTP device.


4. Click **Copy**.

Progress is displayed in the activity pane at the top of the Catalyst Browse window. Each copy job can contain multiple files if you have multiple files selected in step 2 above. If you have multiple jobs queued, a separate progress indicator is displayed for each job.

Uploading files to Ci Workspace

1. Select the files you want to upload in Media Browser or Edit mode.
2. Click the **Share** button  at the top of the Catalyst Browse window.
3. From the **Upload clip to** drop-down list, choose **Ci Workspace**.
4. Use the Share pane to log on to your Ci account and follow the on-screen instructions to upload the selected files to your Ci workspace.

Choose a setting from the **Login method** drop-down list to choose whether you want to log in with a username/email or a Contributor Code.

 If your account has multiple workspaces available, you can use the **Workspace** drop-down to choose the workspace that will be used by default.

5. Select the **Upload original clips** radio button if you want to upload the source clips, or select **Transcode clips before upload** and choose your transcoding settings if you want to convert the clips to another format before uploading.


When you upload the original clips, the source format is preserved, and no color adjustments are applied. When you transcode before uploading, you can choose file format and color-adjustment settings for the uploaded files.


Use the controls in the Export pane to choose a destination and format for your exported file. For more information about the controls, please see ["Transcoding clips" on page 75](#).

6. Click Upload.

Progress is displayed in the activity pane at the top of the Catalyst Browse window. If you have multiple upload jobs queued, a separate progress indicator is displayed for each job.

Editing Catalyst Browse options


Click the **Options**  button to edit your application options.


 If you need to reset all Catalyst Browse options to their default values, hold Control + Shift when starting the application.


Choosing a video processing device

Choose a setting from the **Video processing device** drop-down list to enable or bypass GPU-accelerated video playback and transcoding.

Choose **CPU** if you want to turn off GPU acceleration, or choose a device from the list to enable GPU-accelerated playback.

 The optimal GPU device is automatically selected. Changing this value is intended for advanced users and may be useful for troubleshooting technical problems.

 Computers equipped with CPUs that utilize Intel's Quick Sync Video (QSV) technology see improved processing performance for decoding H.264/AVC/MPEG-4 video files.

 When using a device other than your CPU, high-quality deinterlacing and upscaling are applied to convert SD and HD sources to modern progressive HD and UHD assets. Please note that some systems with limited GPU memory are not supported.

- High-quality deinterlacing is applied to interlaced source media when playback is paused, during transcoding, and during playback when the **Playback Settings Speed/Quality** setting is set to **Quality**.
- High-quality upscaling is applied during transcoding when you choose an HD or UHD render preset.


Enabling the secondary window

Enable the **Secondary preview window** switch if you want to show the video preview in a secondary window that you can position anywhere on your screen or on a secondary monitor.

Enable proxy clip playback

Enable the **Preview using proxy clips** switch if you want to use proxy clips for playback if they are available.

If you're working on a system with limited processing power, creating a proxy file will allow you to preview your media more efficiently.

 Video proxy files are used for playback only.

Enable half-step timecode for 50p/60p sources

Enable the **50p/60p half-step timecode display** switch if you want to display half-step timecode for each field in 50p/60p sources. The timecode for field two will be displayed with an asterisk appended:

Field 1: 01:00:17:17

Field 2: 01:00:17:17*

Show or hide thumbnail frames

Enable the **Show thumbnails** switch if you want to display thumbnail images in the Media Browser. Turning off the switch can improve performance on some slower storage devices.

Choosing snapshot settings

The **Save snapshots to** box displays the path to the folder where the files will be saved when you save a snapshot of the current frame. You can type a path in the box or click the **Browse** button to choose a folder.

Choose a setting from the **Snapshot image format** drop-down list to choose the file format that will be used for snapshots.

For more information, see ["Creating a snapshot of a frame" on page 36](#).

Choosing color management settings

Choose a setting from the **Working color space** drop-down list to choose the color space that will be used for color grading.

For more information, see ["Applying color correction" on page 51](#).

When you choose **Rec.2020/S-Log3** from the **Working color space** drop-down list, you can enable the **SDR gain** switch to convert between standard- and high-dynamic-range content.

Adjusting SDR gain

When the switch is enabled, you can drag the **Gain** slider to choose the gain that is applied when reading SDR content or when exporting to an SDR format or displaying on an SDR display.

For example, if you set the slider to -6.0 dB, a linear gain of +6.0 dB (2.0x) is applied when reading SDR content, and a linear gain of -6.0 dB (0.5x) is applied when exporting to an SDR format or displaying on an SDR display.



When using knee parameters on the Sony HDRC-4000 HDR Production Converter Unit, please enable ABS mode and confirm the R, G, B values in the HDRC-4000. Adjust the values in Catalyst Prepare to match. Using different R, G, B values is not supported.

Choosing a color space for the video preview and external monitor

Video preview

From the **Preview color space** drop-down list, choose the color space for the Catalyst Browse video preview window.

In most cases, choose **Rec.709** for your computer monitor, or you can choose other settings to check your video using scopes. For more information, see ["Loading a clip/clip list for color adjustments and configuring the waveform, histogram, and vectorscope monitors"](#) on page 51.

For more information, see ["Applying color correction"](#) on page 51.

External monitor

Choose a setting from the **External monitor color space** drop-down list to choose the color space that matches the EOTF (electro-optical transfer function) setting on your external monitor.

When using the Sony BVM-X300 version 2.0, please use the following monitor settings:

| External monitor color space in Catalyst Browse | Color Space | EOTF | Transfer Matrix |
|--|------------------|---|------------------|
| Rec.709 | ITU-R BT.709 | i.e. 2.4 | ITU-R BT.709 |
| Rec.2020 | ITU-R BT.2020 | i.e. 2.4 | ITU-R BT.2020 |
| Rec.2020/S-Log-3 | ITU-R BT.2020 | S-Log3(Live HDR) or S-Log3(HDR) | ITU-R BT.2020 |
| Rec.2020/HLG, Rec.2020/HLG AIR Matching, or Rec.2020/HLG (bypass OOTF) | ITU-R BT.2020 | HLG SG Variable(HDR), HLG System Gamma 1.2 | ITU-R BT.2020 |
| Rec.2020/PQ, Rec.2020/PQ AIR Matching, or Rec.2020/PQ (bypass OOTF) | ITU-R BT.2020 | SMPTE ST 2084(HDR) | ITU-R BT.2020 |



When **Rec.2020/S-Log (HDR)** is selected from the **Working color space** drop-down list, you can use the AIR Matching (Artistic Intent Rendering) or bypass OOTF settings to achieve a consistent look between external-monitor previews and rendered clips.

Using AIR Matching to monitor using the S-Log3 (Live HDR) EOTF

Sony BVM-X300 version 2.0 monitor settings:

- Color Space: ITU-R BT.2020
- EOTF: S-Log3 (Live HDR)
- Transfer Matrix: ITU-R BT.2020
- In the Catalyst Browse Options menu, choose **Rec.2020/S-Log3** from the **External monitor color space** drop-down list.

Content mastered using these settings and rendered to HLG or PQ with AIR Matching should have the same look on HLG or PQ monitors or televisions.

Using bypass OOTF to monitor using the S-Log3 (HDR) EOTF

Sony BVM-X300 version 2.0 monitor settings:

- Color Space: ITU-R BT.2020
- EOTF: S-Log3 (HDR)
- Transfer Matrix: ITU-R BT.2020
- In the Catalyst Browse Options menu, choose **Rec.2020/S-Log3** from the **External monitor color space** drop-down list.

Content mastered using these settings and rendered to HLG or PQ with bypass OOTF should have the same look on HLG or PQ monitors or televisions.

Converting HDR media to SDR color spaces

When converting HDR media to standard dynamic range color spaces, use the following settings to preserve your Rec.2020/S-Log3 grading (the dynamic range of the HDR color space will be clamped to the BT.709 gamma curve):

- In Options, set the **Working color space** to **Rec.2020/S-Log3 (HDR)**.
- In Options, enable the **SDR gain** switch and adjust the **Gain** slider to choose the gain that will be applied when exporting to an SDR format or displaying on an SDR display.
- In Options, set the **Preview color space** to **Rec.709** or **Rec.2020**.

When converting HDR media to standard dynamic range color spaces, use the following settings to preserve more of the dynamic range of the original HDR media:



- In Options, set the **Working color space** to **Rec.709**.
- In the Inspector, set the **Convert to** color space to **709(800)**, **HG8009G33**, or **HG8009G40**.

For more information, see ["High Dynamic Range \(HDR\) color grading" on page 68](#).

Choosing an external video monitor device and resolution

Choose a setting from the **External monitor device** drop-down list to display your video preview on an external monitor via a Blackmagic Design device:

- DeckLink 4K Extreme 12G, 4K Pro, 4K Extreme, Studio 4K, SDI 4K, HD Extreme, Extreme 3D, and Mini Monitor.
- Intensity Shuttle, Pro 4K, and Pro.
- UltraStudio 4K Extreme, 4K, Pro, SDI, Express, and Mini Monitor.

Choose a setting from the **Monitor resolution** drop-down list to choose the display resolution for your monitor.

Keyboard shortcuts

Shortcut keys can help streamline your work with Catalyst Browse software. The available shortcut keys are arranged in tables according to function.

Global shortcuts

The following keyboard shortcuts are available when the Video or Media Browser pane has focus.

| Command | Windows Shortcut | macOS Shortcut |
|--|---------------------|--|
| Enter full-screen preview/playback | F11 or Ctrl+F | ⌘-F or Control-⌘-F |
| Exit full-screen preview/playback | Esc, F11, or Ctrl+F | Esc, ⌘-F, or Control-⌘-F |
| Switch between Media Browser/View workspaces | Alt+W | Option-W |
| Show/hide the Inspector pane | Alt+1 | Option-1 |
| Show/hide the Copy pane | Alt+2 | Option-2 |
| Show/hide the Export pane | Alt+3 | Option-3 |
| Show/hide the Share pane | Alt+4 | Option-4 |
| Show/hide the secondary window | Alt+V | Option-V |
| Open application help | F1 | Fn-F1 (F1 if the Use all F1, F2, etc. keys as standard function keys setting is selected) |

Media Browser

The following keyboard shortcuts are available when the Media Browser pane has focus.

| Command | Windows Shortcut | macOS Shortcut |
|------------------------------------|--------------------------------|--------------------------------|
| Navigate files/folders | Up, Down, Left, or Right Arrow | Up, Down, Left, or Right Arrow |
| Open/close folder in tree view | Right/Left Arrow | Right/Left Arrow |
| Select all files | Ctrl+A | ⌘-A |
| Deselect all files | Ctrl+D | ⌘-D |
| Delete selected files | Delete | Delete or fn+Delete |
| Load file and start/pause playback | Spacebar | Spacebar |
| Load file into Video pane | Enter or Ctrl+Down Arrow | Return or ⌘-Down Arrow |
| Open selected folder | | |
| Navigate up one level | Backspace | ⌘-Up Arrow |
| Go to start/end of list | Home | Home |
| | End | End |
| Move selection up/down one page | Page Up | Page Up |
| | Page Down | Page Down |

Editing

The following keyboard shortcuts are available when the View pane has focus.

| Command | Windows Shortcut | macOS Shortcut |
|--|------------------|----------------|
| Switch Logging/Clip List/Clip/Adjust Colors | ~ | ~ |
| | ~ | ~ |
| Save a snapshot of the current frame to a file. | Shift+S | Shift-S |
| Reset mark in and mark out points to the beginning and end of the clip. | Shift+R | Shift-R |
| Switch between Before/After/Split/2 Up video preview in Adjust Color mode. | 1/2/3/4 | 1/2/3/4 |
| Show/hide the Media Browser in View mode | Ctrl+B | ⌘-B |

Playback and preview

The following keyboard shortcuts are available when the Video pane has focus.

| Command | Windows Shortcut | macOS Shortcut |
|---|---|---|
| Go to start | Ctrl+Home | ⌘-Home |
| | Ctrl+Up Arrow | ⌘-Up Arrow |
| | | Fn- Left Arrow |
| Go to end | Ctrl+End | ⌘-End |
| | Ctrl+Down Arrow | ⌘-Down Arrow |
| | End | Fn- Right Arrow |
| Go to previous frame | Left Arrow | Left Arrow |
| Go to next frame | Right Arrow | Right Arrow |
| Go to previous clip | [| [|
| Go to next clip |] |] |
| Start/pause playback | Spacebar | Spacebar |
| Shuttle playback | J/K/L | |
| | | Press J or L once for 1x playback. |
| | | Press J or L twice for 1.5x playback. |
| | | Press J or L three times for 2x playback. |
| | | Press J or L four times for 4x playback. |
| | | Press K to pause playback. |
| | Press and hold K while pressing J or L to emulate a shuttle knob mode: press K+J to turn the knob to the left or K+L to turn the knob to the right. | |
| Toggle looped playback | Q | Q |
| | Ctrl+L | ⌘-L |
| Set Mark In point | I | I |
| Set Mark Out point | O | O |
| Add shot mark (to supported file types) | E | E |
| Go to Mark In point | Shift+I | Shift-I |
| | Home | Home |
| Go to Mark Out point | Shift+O | Shift-O |
| | End | End |

| Command | Windows Shortcut | macOS Shortcut |
|---|---------------------|-------------------|
| Save a snapshot of the current frame to a file. | Shift+S | Shift-S |
| Reset Mark In/Out points | Shift+R | Shift-R |
| Go to previous marker (including Mark In/Out) | Ctrl+Left Arrow | ⌘-Left Arrow |
| Go to next marker (including Mark In/Out) | Ctrl+Right Arrow | ⌘-Right Arrow |
| Copy current frame to clipboard | Ctrl+C | ⌘-C |
| Enter full-screen playback | F11 | ⌘-F |
| | Ctrl+F | Control-⌘-F |
| Show/hide the secondary window | Alt+V | Option-V |
| Zoom to fit | Ctrl+0 | ⌘-0 |
| Zoom to 100% | Ctrl+1 | ⌘-1 |
| Zoom in | Ctrl++ | ⌘-+ |
| Zoom out | Ctrl+- | ⌘-- |
| Show/hide the Media Browser in View mode | Ctrl+B | ⌘-B |

Gestures

Media Browser pane

| Gesture | Result |
|--------------------------------|---------------------------------|
| Tap | Selects and loads a file. |
| Double-tap | Opens a file in the Video pane. |
| One-finger drag (touchscreen) | Scrolls the list vertically. |
| Two-finger drag (trackpad) | |
| One-finger flick (touchscreen) | Scrolls the list with inertia. |
| Two-finger flick (trackpad) | |

Video pane

| Gesture | Result |
|--------------------------------|---|
| Double-tap | Toggles the zoom level between 100% and Fit . |
| One-finger drag (touchscreen) | Pans the image. |
| Two-finger drag (trackpad) | |
| One-finger flick (touchscreen) | Pans the image with inertia. |
| Two-finger flick (trackpad) | |
| Pinch | Zooms the image in and out. |

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