

Canon

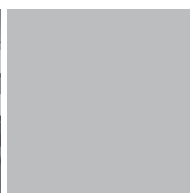
PUB. DIE-0496-000

Digital Cinema Camera

EOS C300 Mark II

ACES Workflow Introduction

Firmware ver. 1.0.4.1.00



4K

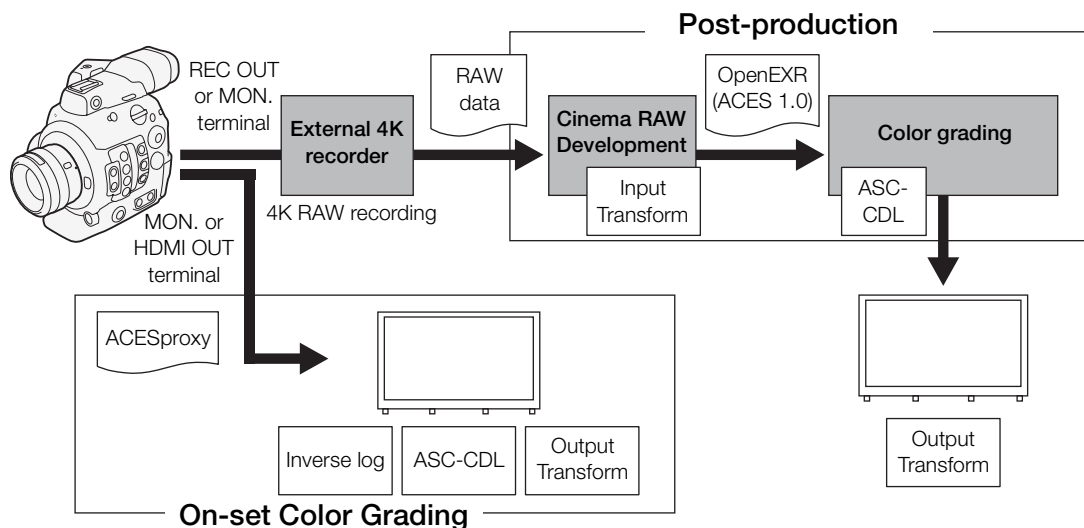
2K

XF-AVC

MXF

HDMI

Color Grading with the ACES Workflow



- ACESproxy:** ACESproxy video data that is output from the MON. terminal or HDMI OUT terminal when performing on-set color grading. Select the [ACESproxy] option for the [Assistance Functions] [LUT] setting of the appropriate terminal to enable ACESproxy output.
- Input Transform:** Refers to the table used for converting color information of the input device to ACES2065-1 color space.
- Output Transform:** Refers to the table used for mapping ACES2065-1 color space information to the specific color information scheme used by the display device.
- ASC-CDL:** Refers to the list that contains color grading adjustment data. This step requires equipment compatible with ASC-CDL.

Applying a LUT to Screens/Video Outputs

While recording using special gamma curves, you can apply a LUT to video output from the REC OUT terminal, MON. terminal or HDMI OUT terminal and to the image displayed on the LCD screen or viewfinder. When a LUT is applied, the displayed image will look as if a standard gamma curve and color space were used, making it easier to check the image on the display device used. To check the image on an external monitor, you will need a monitor that is compatible with the selected color space.

[ Assistance Functions]

[LUT]

[Activate] [Off]
[MON. & HDMI (2K)] [Off]
[REC OUT (2K)] [Off]
[LCD & VF] [Off]

Available LUT options by gamma curve and color space

Available LUTs depend on the combination of gamma curve and color space used, whether it was set through one of the [CP Custom Picture] ➤ [Preset] settings or through the individual [CP Custom Picture] ➤ [Main Settings] ➤ [Gamma] or [Color Space] settings.

[Gamma]	[Color Space]	Available LUTs			
		[BT.709]	[BT.2020]	[DCI]	[ACESproxy]
[Canon Log 2], [Canon Log 3]	[Cinema Gamut]	●	●	●	●*
	[BT.2020 Gamut]	●	●	—	—
	[DCI-P3 Gamut]	●	—	●	—
	[BT.709 Gamut]	●	—	—	—
[Canon Log]	[BT.709 Gamut]	●	—	—	—
[Wide DR]	[BT.2020 Gamut]	●	—	—	—

* Only when [CP Custom Picture] ➤ [Preset] is set to [Canon Log 2: C.Gamut] or [Canon Log 3: C.Gamut].

Operating modes: CAMERA MEDIA

1 Open the LUT's [Activate] submenu.

[ Assistance Functions] ➤ [LUT] ➤ [Activate]

2 Select [On] and then press SET.

3 Select [MON. & HDMI (2K)], [REC OUT (2K)] or [LCD & VF] and then press SET.

4 Select the desired option and then press SET.

- Repeat steps 3 and 4 as necessary to select the LUT applied to other output terminals/displays.
- The gamma curve and color space of the video output will change.
- For the LCD screen and viewfinder, only the [BT.709] LUT is available.
- If a LUT is not needed, select [Off].

Options

Applied LUT	Output Settings with LUT applied		Description
	Gamma curve	Color space	
[BT.709]	Wide DR	BT.709	LUT for viewing on the camera's LCD screen and viewfinder or external monitors compatible with BT.709 specifications.
[BT.2020]	Wide DR	BT.2020	LUT for viewing on external monitors compatible with ITU-R BT.2020 standards, which define parameters for ultra-high-definition television (4K/8K).
[DCI]	DCI	DCI-P3	LUT for viewing on external monitors that support color spaces and gamma curves that follow the guidelines established by DCI (Digital Cinema Initiatives).
[ACESproxy]	ACESproxy	ACESproxy	LUT for viewing on external monitors compatible with the ACESproxy standard established by ACES (Academy Color Encoding System).
[Off]	—	—	No LUT applied.

 NOTES

- When you apply the [ACESproxy] LUT to the REC OUT terminal, MON. terminal or HDMI OUT terminal, the selected terminal will output ACESproxy video data. Using a compatible monitor*, you can perform on-set color grading and check the image after color correction as you continue shooting (📖 2).
- * When using the HDMI OUT terminal, a monitor that supports YCbCr Full Range quantization is required.
- If you change the [CP Custom Picture] ➤ [Preset] or [CP Custom Picture] ➤ [Main Settings] ➤ [Gamma] or [Color Space] settings, the LUT will be deactivated and all the terminals' output settings will be reset to [Off].

The information in this document is verified as of June 2016. Subject to change without notice.
Visit your local Canon Web site to download the latest version of the complete Instruction Manual.