

# Recommended ACES Workflow for O-Log

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## 1. Introduction

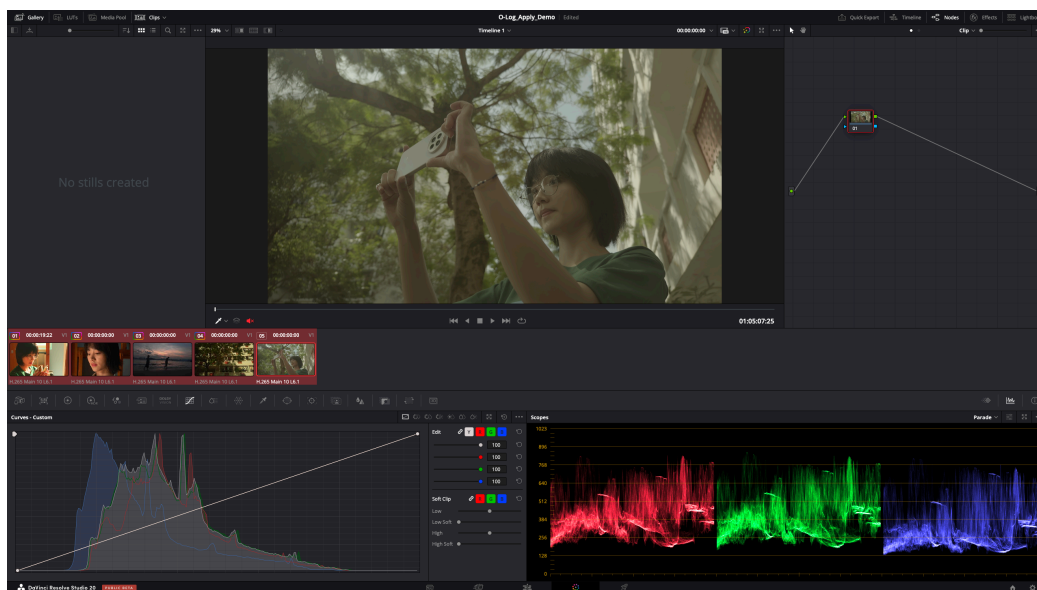
ACES (Academy Color Encoding System) is a color image encoding system in the film industry through which the color compatibility between different cameras can be better compatible. This guide takes an Oppo-Log video as an example to provide instructions on how to use the ACES workflow using video editing software, such as DaVinci Resolve.

## 2.Workflow

### 2.1 Color Management in Nodes.

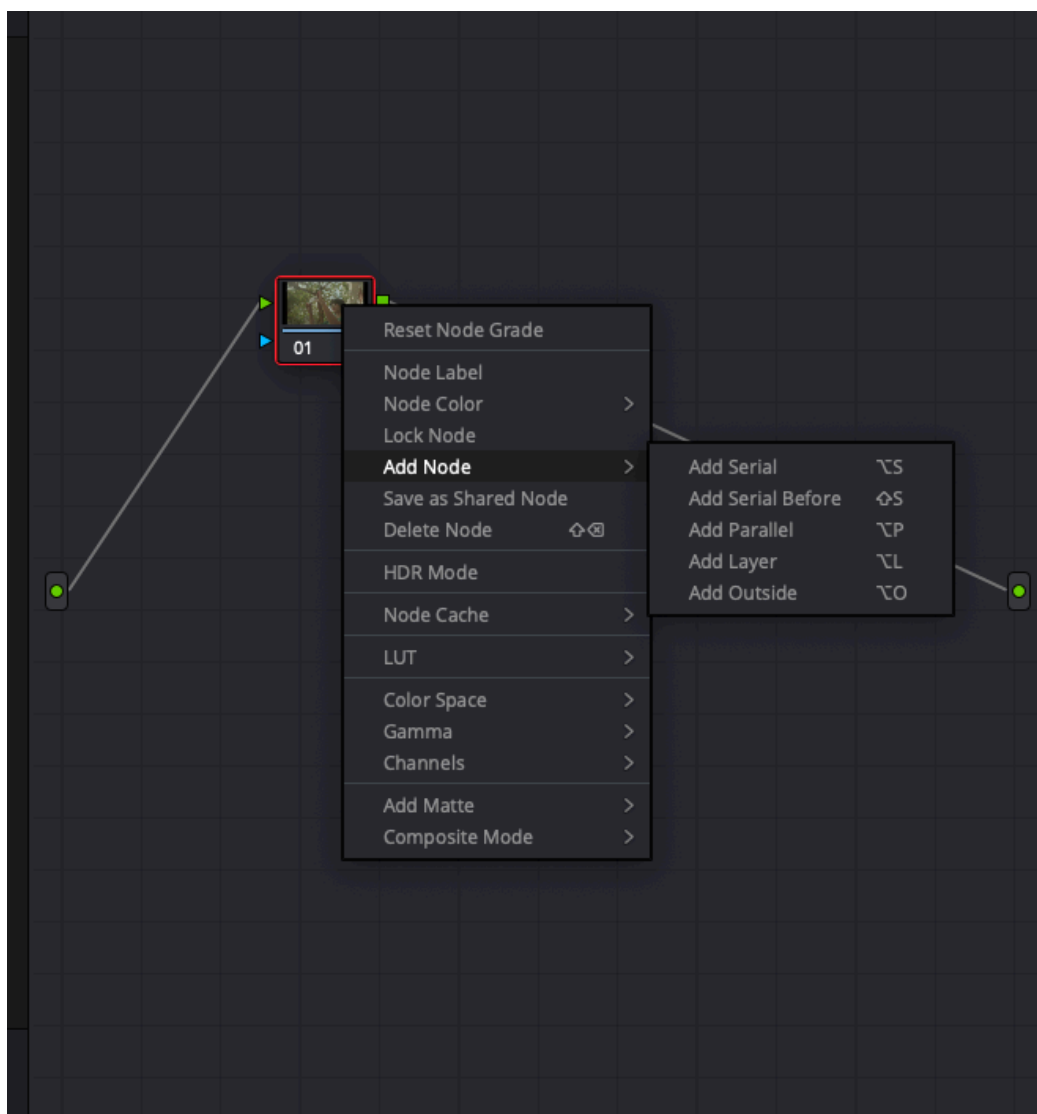
#### 2.1.1 Importing the Oppo-Log Video to the Timeline.

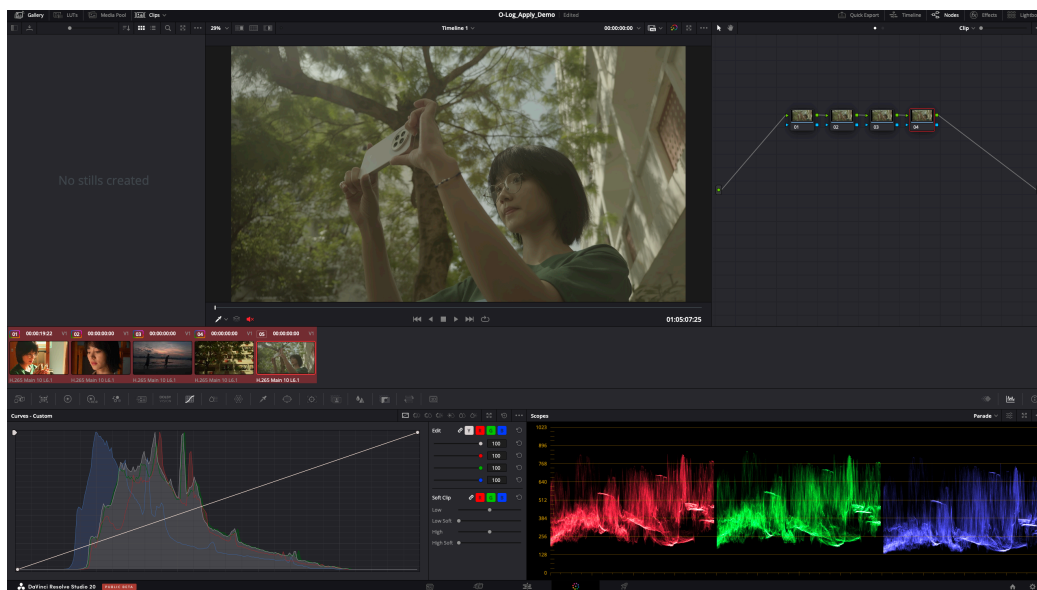
Create a new timeline, Import the video from the Media Bin. Go to the Color Panel.



## 2.1.2 Adding Serial Node

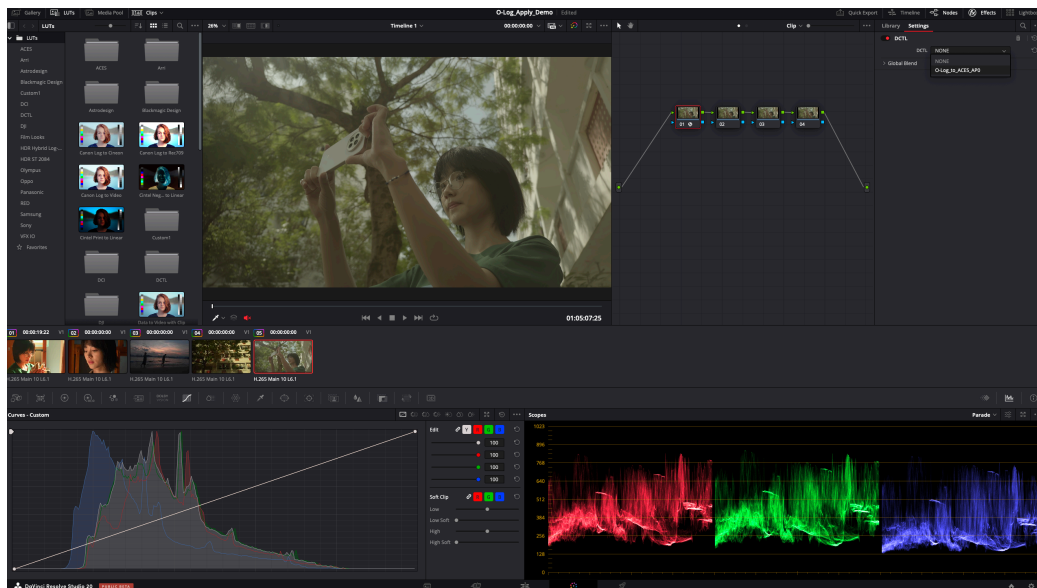
Right Click the node, press Add Node and Add Serial, at least 3 Nodes are needed.





### 2.1.3 Applying DCTL Effects

Click Effects Tab, Select the DCTL and Drag it into the first Node. Select 'O-Log\_to\_ACES\_AP0' in the DCTL list, which means the video transforms from Oppo-Log to Linear AP0 Color Space.

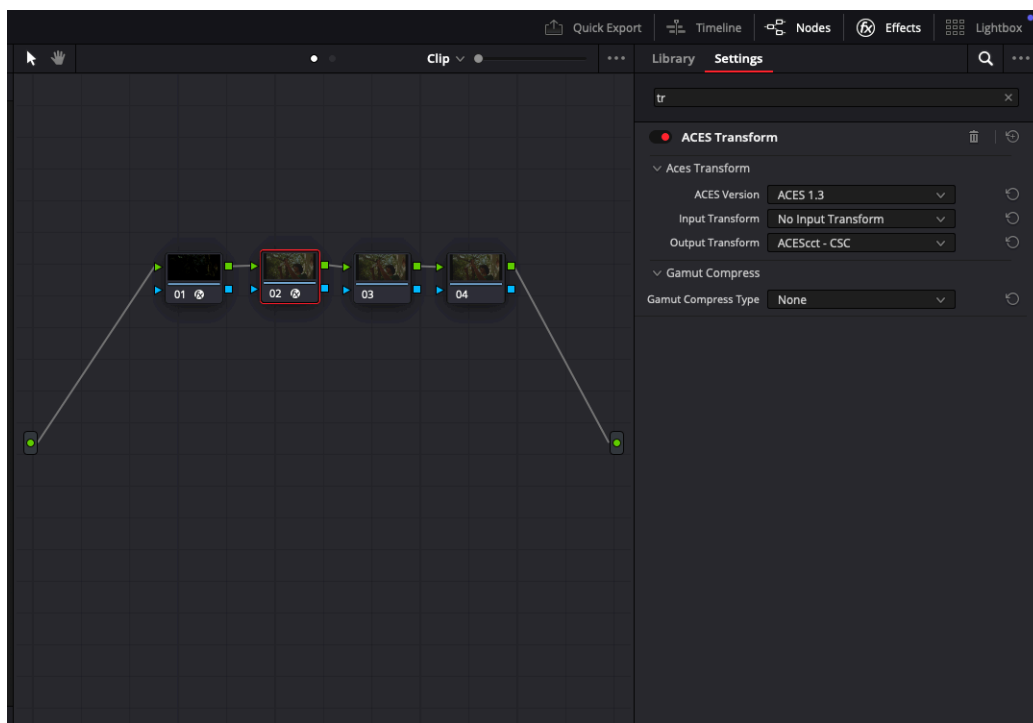


Note: It is required to load the O-log DCTL file first. For more information, refer to the O-Log DCTL File Loading Steps section.

### 2.1.4 Applying ACES Transform

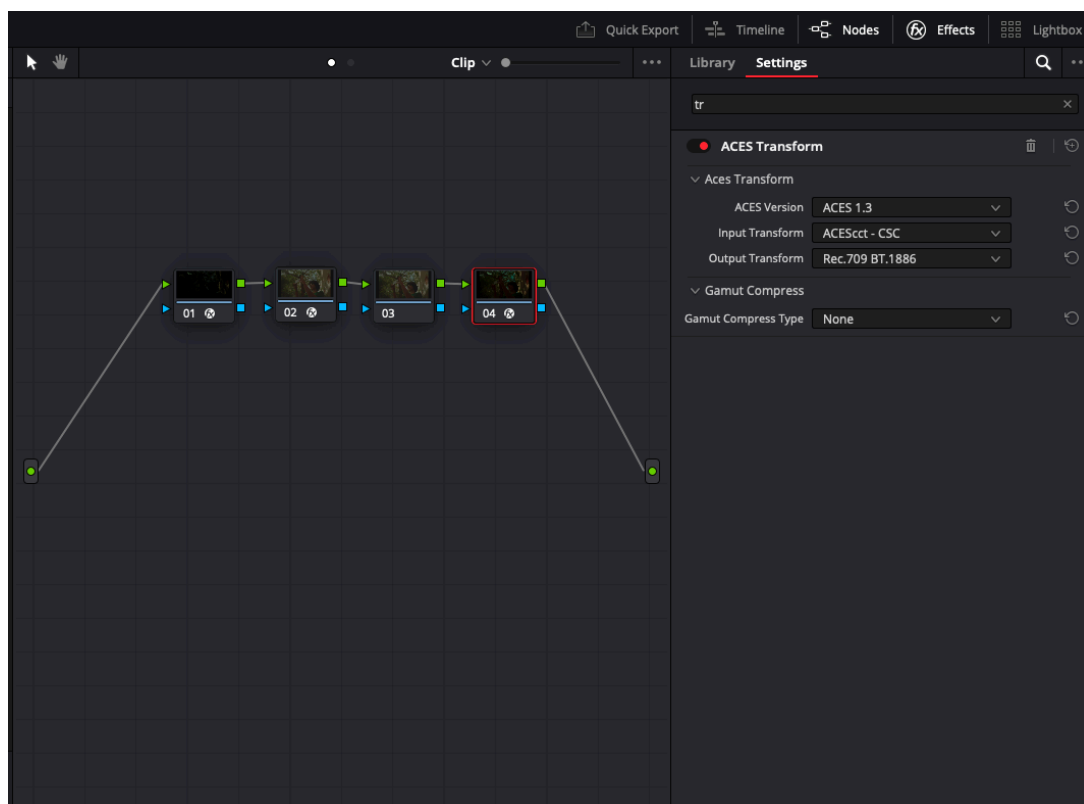
Select ACES Transform in Effects, drag it into the second Node. Select ACES 1.3 in ACES version. Select No Input Transform in Input Transform. Select ACEScct-CSC\* in Output Transform. This step transforms the video from linear AP0 color space to AP1 log color space. The user can adjust the brightness and color of the video in AP1 color space.

Note: Users can select other options (ACEScc-CSC or ACEScg-CSC) in Output transform base their needs.

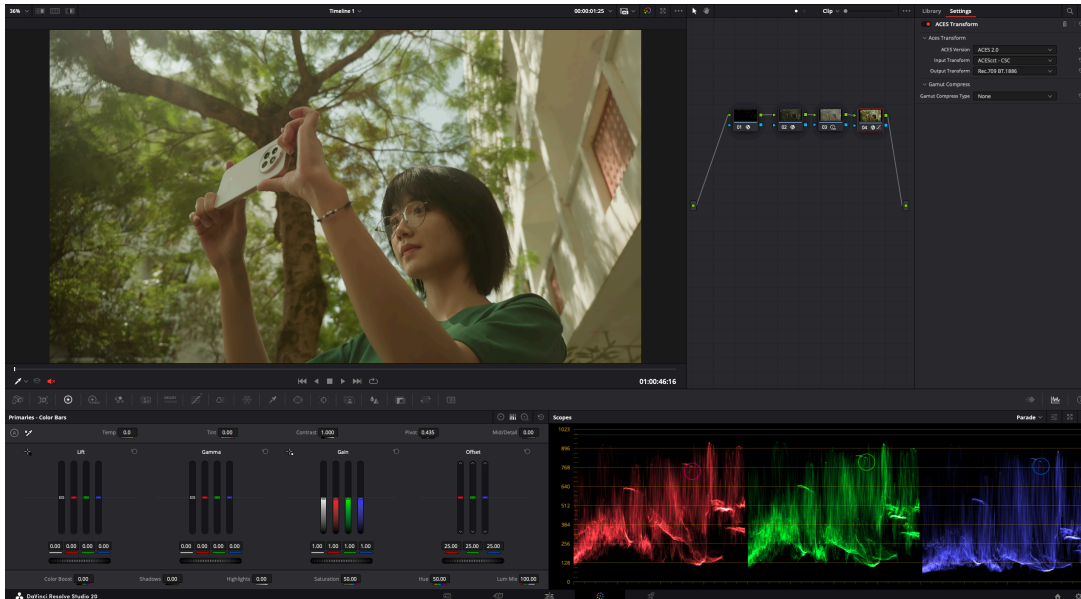


### 2.1.5 Transforming to Rec.709 (Display-refer Color space)

It is recommended to complete the color grading process at the nodes between color space Transform before and after. After the Color grading is completed, the user can continue to use ACES on subsequent nodes to transform the video to RRT or other color spaces. Here we take the transformation to Rec.709 as an example. Click Effects in the upper right corner. Select ACES, then click and hold to drag and drop it on the subsequent node. Select ACES 1.3 in ACES version. Select ACEScct-CSC in Input Transform. Select Rec.709 in Output Transform. This step transforms the video from AP1 color space to Rec.709 color space, so as to facilitate subsequent video export.

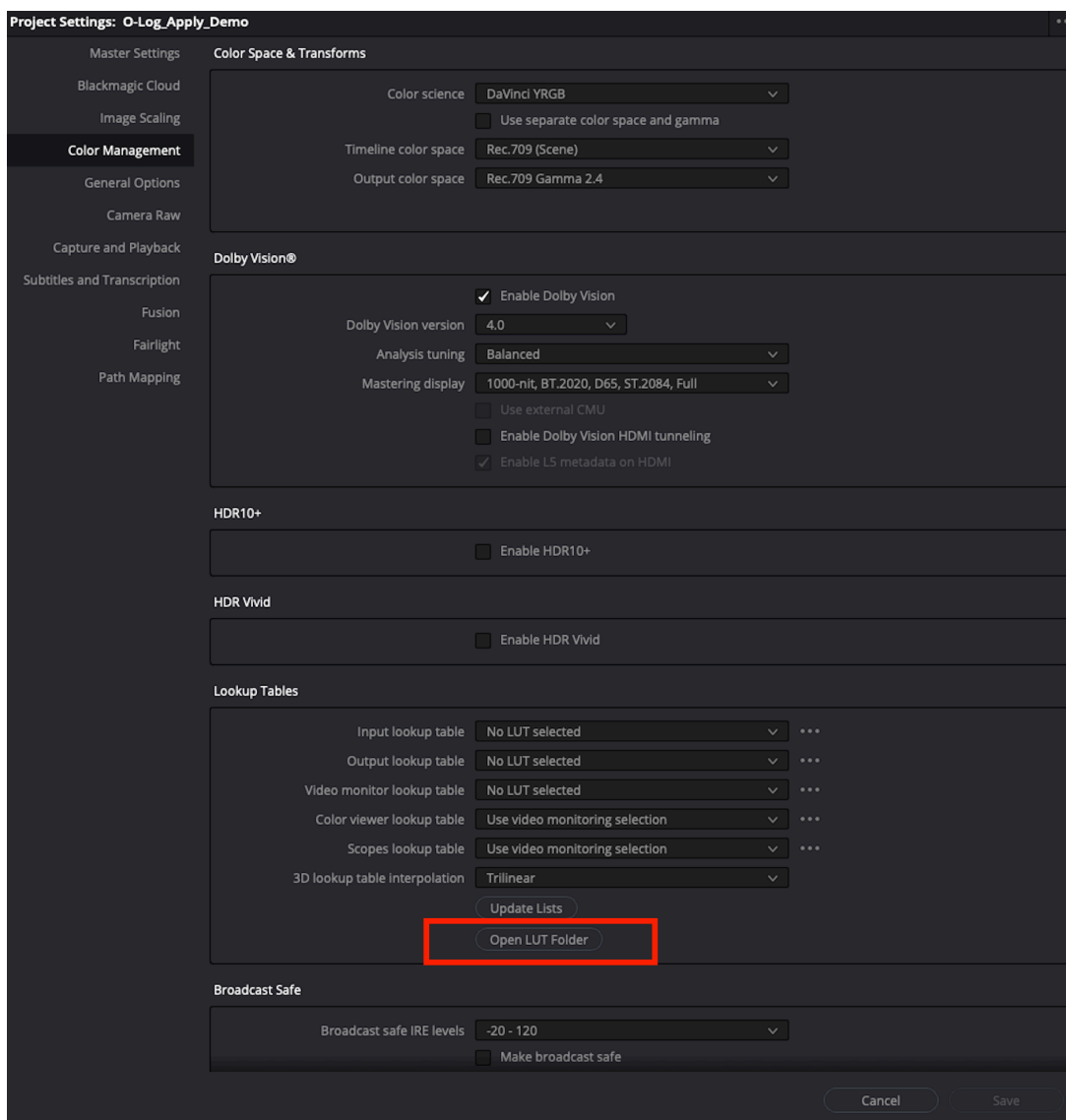






## 2.2 Oppo-Log DCTL File Loading Steps

Open DaVinci Resolve, click the Project Settings (Shortcut: SHIFT + 9 ) icon in the lower right corner, select Color Management in Project Settings, and click Open LUT Folder.



Place the file O\_Log\_to\_ACES\_AP0.dctl into the DCTL folder. Restart Davinci Reslove and it will take effect.

