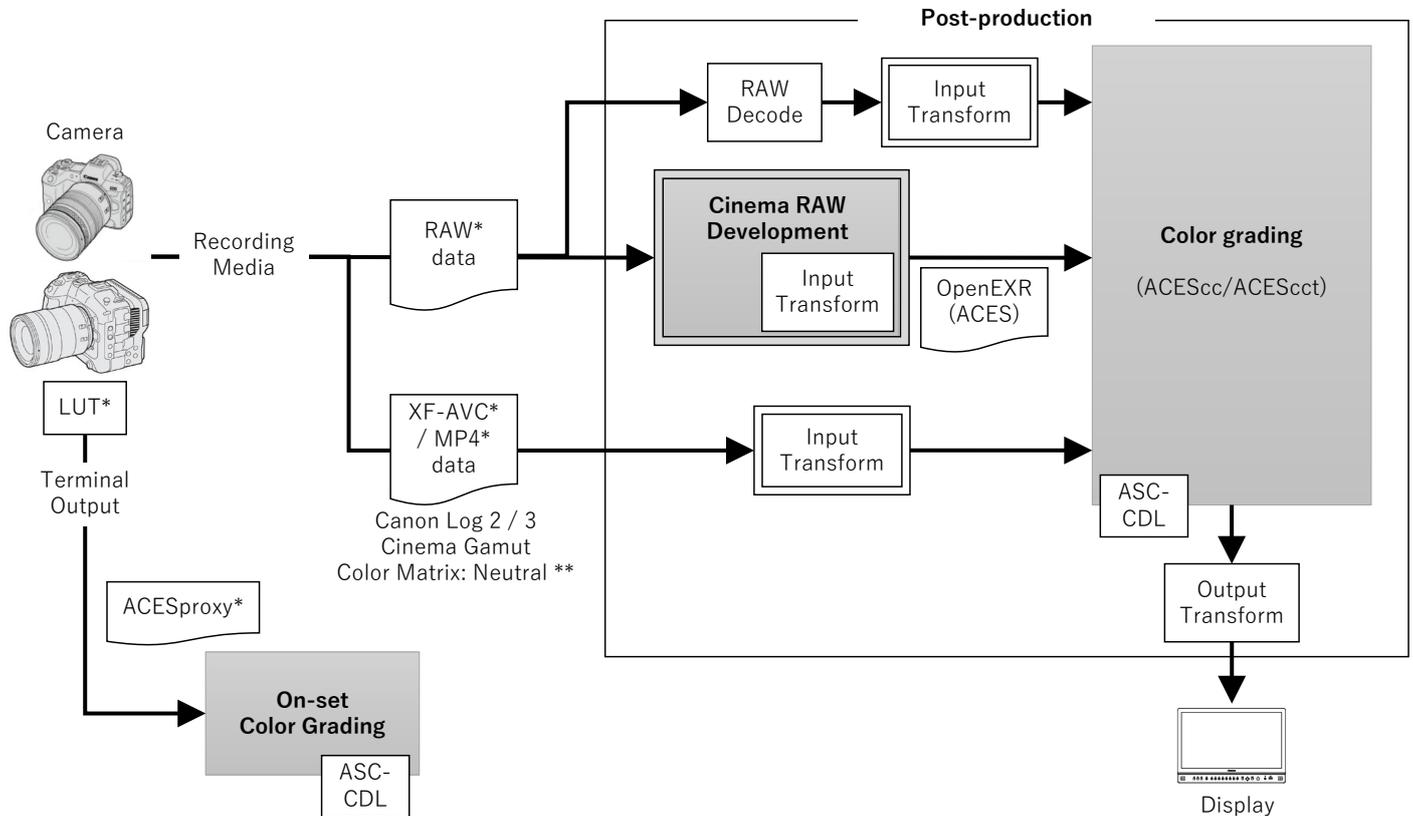# Color Grading with the ACES Workflow

You can perform color grading using ACES, the color encoding system defined by the Academy of Motion Picture Arts and Sciences. This workflow allows you to perform on-set color grading while continuing to shoot.
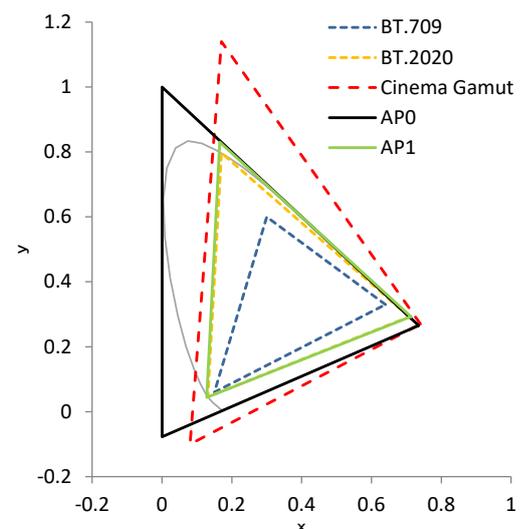

Color spaces:

- [Canon Log 2], [Canon Log 3], [Cinema Gamut]: Canon's original color spaces. Cinema Gamut primaries, and a log 10-bit integer encoding.
- [ST2065-1]: AP0 primaries, linear floating-point encoding.
- [ACESproxy]: AP1 primaries, log 10-bit or 12-bit integer encoding.
- [ACEScc]: AP1 primaries, log floating-point encoding.
- [ACEScct]: AP1 primaries, log floating-point encoding. Differs from ACEScc by adding a 'toe' to the encoding, with a behavior resembling that of the Cineon curve.

ACESproxy:

ACESproxy video data that is output from the camera's output terminals when performing on-set color grading. Select the [ACESproxy] option for the LUT setting, depending on where the video is to be output.

Input Transform:

Refers to the table used for converting color information of the input device to ST2065-1 color space. It can be downloaded from Canon's website.

Output Transform:

Refers to the table used for mapping ST2065-1 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.

Cinema RAW Development:

Software for developing RAW clips. By applying Input Transform, it is possible to export data in OpenEXR format. It can be downloaded from Canon's website.

* [RAW data], [XF-AVC data], [MP4 data], [LUT], [ACESproxy]:

Depending on the camera model, some of these functions are not supported. For details, refer to the instruction manual of each camera model.

** The [Color Matrix] setting must be set to [Neutral].