



Production Technology Support




CAMERA PRODUCTION GUIDE | EOS C300 Mark II

Settings and best-practices for capture with the EOS C300 Mark II on Netflix 4k Originals.

Current Ops Manual: [HERE](#)



CAPTURE SETTINGS | 4K RAW

Preferred SELECTION setting shown in **YELLOW & BOLD** and alternatives in normal text.

SETTING	MENU NAVIGATION	SELECTION
SHOOTING MODE	 Recording/Media Setup → REC OUT 4K RAW Mode	4K RAW
GAMMA / LOG ENCODING	 Custom Picture → Presets	Canon Log 2 : C.Gamut
COLOR SPACE	 Recording/Media Setup → 4K RAW Color Space	Cinema Gamut
RAW FORMAT	Uncompressed 4K 10 bit RAW Sent through REC OUT 3G-SDI Terminal	

CAPTURE SETTINGS | **4K COMPRESSED**

Preferred SELECTION setting shown in **YELLOW & BOLD** and alternatives in normal text.

SETTING	MENU	SELECTION
SHOOTING MODE	 Recording/Media Setup → Resolution/Color Sampling	4096 x 2160 YCC422 10 bit 3840 x 2160 YCC422 10 bit
GAMMA / LOG ENCODING	 Custom Picture → Presets	Canon Log 2 : C.Gamut (see Tips below) Canon Log 3 : C.Gamut

HIGH SPEED | **4K COMPRESSED**

INTERNAL MEDIA	MAX FPS	MAX RESOLUTION
XF-AVC	30 fps	4096x2160 422 10 bit
XF-AVC	60 fps	2048x1080 422 10 bit
XF-AVC (Cropped)	120 fps	2048x1080 422 10 bit



OPTIMIZING PERFORMANCE | MAINTENANCE PROCEDURES

SETTING	MENU	STANDARD OPERATING PROCEDURE
BLACK BALANCE	Camera Setup → ABB	Perform at start of day and after any dramatic change in operational temperature.

NOTES:

Canon Log 2 provides 15 stops of dynamic range and allows for extended shadow detail retention. With this extended shadow detail often comes an increase in noise.

Canon Log 3 provides the same highlight retention however, one less stop in the shadows. This provides a cleaner image that is often easier to handle in a high volume post production process. If Canon Log 2 is captured, a 1D LUT is available from Canon to transform it into Canon Log 3, removing the shadow detail and therefore additional shadow noise, for a simpler post production process. Canon LUT's are available for [Download Here](#).

The BT.709 LUT in camera is the same as the the BT.709_Wide DR LUT provided on Canon's Website.

When capturing in XF-AVC, all Canon Log formats are encoded as full range data (0-1023). On a 10 bit scale, Canon Log 3 and Canon Log have a black point of 128, and Canon Log 2 has a black point of 95. For more information on Canon Logs, [please see this link](#).