CAMERA PRODUCTION GUIDE | **EOS C700**

Settings and best-practices for capture with the EOS C700 on Netflix 4k Originals.
Current Ops Manual: [Cinema EOS C700 Manual](#)

CAPTURE SETTINGS | **4K RAW**

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

SETTING	MENU NAVIGATION	SELECTION
SHOOTING MODE	Rec/Media Setup → Resolution/Sampling	4096x2160 RAW **4512x2376 RAW**
RAW FORMAT	Rec/Media Setup → Main Rec Format	**RAW (Capture Drive)**

CAPTURE SETTINGS | **4K COMPRESSED**

SETTING	MENU	SELECTION
SHOOTING MODE	Rec/Media Setup → Resolution/Sampling	4096x21060 YCC422 10 bit
GAMMA / LOG ENCODING	HOME → COLOR → CP MAIN→ → Preset	Canon Log 3 : C.Gamut Canon Log 2 : C.Gamut
CODEC	Rec/Media Setup→ Main Rec Format	XF-AVC ProRes

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HIGH SPEED | **4K RAW**

RAW RECORDER	MAX FPS	MAX RESOLUTION
Codex CDX-36150	120 fps	4096x2160 10bit
Codex CDX-36150	60 fps	4096x2160 12bit

HIGH SPEED | **4K COMPRESSED**

INTERNAL MEDIA	MAX FPS	MAX RESOLUTION
XF-AVC (CFast)	60 fps	4096x2160 YCC422 10 bit
XF-AVC (CFast)	120 fps	2048x1080 YCC422 10 bit
XF-AVC (CFast) (Cropped)	240 fps	2048x1080 YCC422 10 bit
ProRes (CFast)	30 fps	4096x2160 YCC422 10 bit

OPTIMIZING PERFORMANCE | **MAINTENANCE**

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

ABB - Normalize black levels and reduce fixed pattern noise. Fairly good at fixing hot pixels.

Production Technology Support

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.](#)