



CAMERA PRODUCTION GUIDE | EOS C400

Settings and best-practices for capture with the EOS C400 on Netflix 4k Originals.

Current Ops Manual: [HERE](#)

CAPTURE SETTINGS | RAW

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

SETTING	MENU NAVIGATION	SELECTION
SHOOTING MODE	 Recording/Media Setup → Sensor Mode → Main Rec Format → Main Resolution	Sensor Mode : Full Frame Super 35mm (cropped) Main Recording Format : RAW HQ RAW ST RAW LT Main Resolution: 6000x3164 4368x2304
BASE ISO	 Camera Setup → Base ISO	800 3200 12800



Production Workflows & Imaging

CAPTURE SETTINGS | 4K COMPRESSED

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

SETTING	MENU	SELECTION
SHOOTING MODE	 Recording/Media Setup → Sensor Mode → Main Rec Format	Sensor Mode : Full Frame Super 35 Main Recording Format : XF-AVC YCC422 10 bit
	 Recording/Media Setup → Resolution/Color Sampling	4096 x 2160 Intra-frame 3840 x 2160 Intra-frame
GAMMA / LOG ENCODING	CP Custom Picture → Select CP files	C2 : Canon Log 2 (see Tips below) C3 : Canon Log 3

HIGH SPEED | 4K COMPRESSED

INTERNAL MEDIA	MAX FPS	MAX RESOLUTION
XF-AVC	120 fps	4096x2160 422 10 bit
XF-AVC	120 fps	2048x1080 422 10 bit
XF-AVC (Cropped)	180 fps	2048x1080 422 10 bit



Production Workflows & Imaging

OPTIMIZING PERFORMANCE | MAINTENANCE PROCEDURES

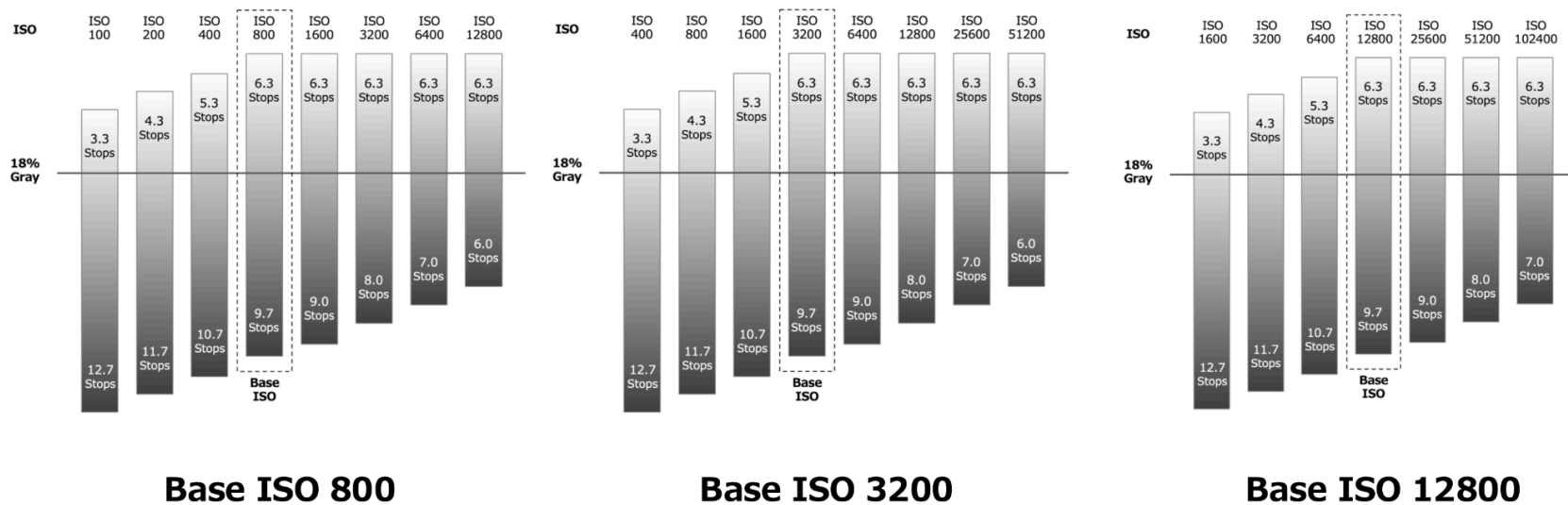
SETTING	MENU	STANDARD OPERATING PROCEDURE
BLACK BALANCE	Camera Setup → ABB	Perform at start of day and after any dramatic change in operational temperature.

NOTES:

Triple Base ISO

EOS C400 features Triple base ISO, newly developed 6K Full-Frame Back-illuminated stacked CMOS sensor offers Base ISO 800, Base ISO 3200, and Base ISO 12800. By arranging these three Base ISO settings in 2 stop increments, the EOS C400 enables the user to select the most appropriate ISO sensitivity for various shooting situations. Each Base ISO ranges from 6.3 stops over to 9.7 stops under 18% Middle Gray, for a total of 16 stops dynamic range. Productions should run camera tests beforehand to assess the appropriate Base ISO setting for their specific shooting scenarios. **See EOS C400 Base ISO chart below.**

EOS C400 Triple Base ISO chart (Canon Log 2)



Canon Log 2 provides 16 stops of dynamic range and allows for extended shadow detail retention. With this extended shadow detail often comes a slight increase in noise.

Canon Log 3 provides the same highlight retention however, one or two less stops in the shadows. This provides a cleaner image that is often easier to handle in a high volume post production process.

When capturing in XF-AVC, all Canon Log formats are encoded as full range data (0-1023). On a 10 bit scale,



Production Workflows & Imaging

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 about maximizing image quality using Canon Log, [please see this link](#).

LUT

Canon LUT's are available for [Download Here](#).

The BT.709 LUT in camera are CMT 709 and Canon 709, CMT 709 LUT is provided on Canon's Website. For more information about CMT 709 and Canon 709, [please see this link](#).