



# CAMERA PRODUCTION GUIDE | EOS C50

Settings and best-practices for capture with the EOS C50 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 : <b>Full Frame 3:2</b> <b>Full Frame</b> Super 35mm (cropped) Main Rec Format : <b>RAW HQ</b> <b>RAW ST</b> RAW LT Main Resolution: 6960x4640 6960x3672 5036x2656
BASE ISO	 Camera Setup → Base ISO	800 6400

## 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 : <b>Full Frame</b> Super 35 Main Rec Format : <b>XF-AVC YCC422 10 bit</b>
	 Recording/Media Setup → Main Resolution	<b>4096 x 2160 Intra-frame</b> <b>3840 x 2160 Intra-frame</b>
GAMMA / LOG ENCODING	 Custom Picture → Select  files	<b>C2 : Canon Log 2 (see Tips below)</b> C3 : Canon Log 3
Base ISO	 Camera Setup → Base ISO	800 6400



## Production Workflows & Imaging

### 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

### OPTIMIZING PERFORMANCE | MAINTENANCE PROCEDURES

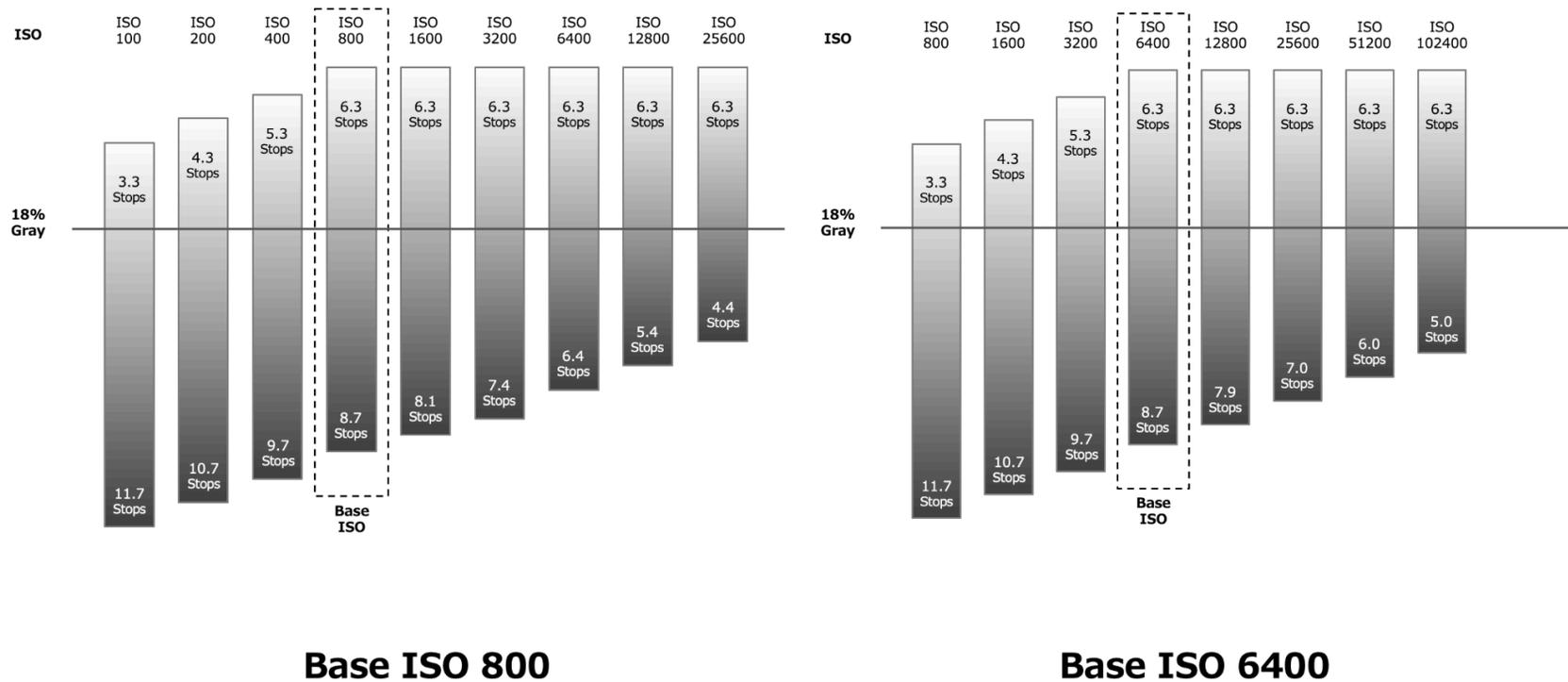
SETTING	MENU	STANDARD OPERATING PROCEDURE
BLACK BALANCE	Camera Setup → ABB	Perform at start of day and after any dramatic change in operational temperature.

#### NOTES:

##### Dual Base ISO

EOS C50 features Dual base ISO, newly developed 7K Full-Frame CMOS sensor offers Base ISO 800 and Base ISO 6400. The EOS C50 enables the user to select the most appropriate ISO sensitivity for various shooting situations. Each Base ISO ranges from 6.3 stops over to 8.7 stops under 18% Middle Gray, for a total of 15 stops dynamic range. Productions should run camera tests beforehand to assess the appropriate Base ISO setting for their specific shooting scenarios. **See EOS C50 Base ISO chart below.**

## EOS C50 Dual Base ISO chart (Canon Log 2)



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



## Production Workflows & Imaging

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, 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](#).