CAMERA PRODUCTION GUIDE | **SONY FS7/FS7MKII**

Settings and best-practices for XAVC capture with the Sony PXW-FS7/FS7MKII on Netflix 4k Originals.
Current Ops Manual: <u>HERE</u>

CAPTURE SETTINGS | **4K XAVC**

NOTE: Due to the lack of a timecode input, the XDCA-FS7 extension unit must be used with this camera.

SETTING	MENU	SELECTION

SHOOTING MODE	System →
	  Base Setting →
	    Shooting Mode
		Cine EI

COLOR SPACE	System →
	  Base Setting →
	    Color Space*
		S-Gamut3.Cine / SLog3
		 S-Gamut3 / SLog3

XAVC FORMAT	System →
	  CODEC →
	    Select →
		XAVC -I

* S-Gamut3.Cine / SLog3 is the most common color space used on FS7 productions.

Recommended exposure values for S-LOG3

Input reflection	0% Black (IRE0%)		18% Grey (IRE20%)		90% White (IRE100%)	
Output	IRE	CV	IRE	CV	IRE	CV
S-Log3	3.5%	95	41%	420	61%	598

HIGH SPEED | **4K XAVC**

FORMAT	MAX FPS	MAX RESOLUTION
XAVC-I	60fps	4096 x 2160**

**4K high-speed only available with XAVC Class300 codec.

OPTIMIZING PERFORMANCE | **4K XAVC**

SETTING	MENU	STANDARD OPERATING PROCEDURE
AUTO BLACK BALANCE (ABB)	Camera → Auto Black Balance →	Perform at start of day once camera has reached operating temperature.
AUTO PIXEL RESTORATION (APR)	System → APR → APR Execute	Perform at start of day once camera has reached operating temperature.

These functions can help ensure a clean, consistent image.
ABB - Normalize black levels and reduce fixed pattern noise. Fairly good at fixing hot pixels.
APR - Eliminate hot pixels by completely mapping them out.

If **ABB** fails to correct a hot pixel, **APR** may help. If offending pixels are still present after **APR**, camera should be sent to Sony for manual RPN correction.