



Production Technology Support

CAMERA PRODUCTION GUIDE | SONY FX3

Settings and best-practices for XAVC S-I capture with the Sony ILCE-FX3 on Netflix 4k Originals.

NOTE: The Sony FX3 recording frame rates are indicated as the closest integer values in camera. The actual corresponding frame rates are as follows: 24p: 23.98 fps, 30p: 29.97 fps, 60p: 59.94 fps, and 120p: 119.88 fps.

[Sony TC Adaptor Cable](#) is required in order to jam the Sony FX3 to an external timecode source and is recommended.

Current Operation Manual: [HERE](#)

CAPTURE SETTINGS | XAVC S-I 4K (All-I) 10Bit 4:2:2/600Mbps

SETTING	MENU	SELECTION
VIDEO FORMAT	 Shooting→ Image Quality/Rec → File Format	XAVC S-I 4K (3840 x 2160)
RECORDING FORMAT	 Shooting→ Image Quality/Rec → Movie Settings→ Record Setting	240Mbps 4:2:2 10bit (24p) 300Mbps 4:2:2 10bit (30p) 600Mbps 4:2:2 10bit (60p)
LOG SHOOTING	 Shooting→ Image Quality/Rec → Log shooting setting → Log Shooting	Cine EI



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COLOR MODE

▶ Shooting →
Image Quality/Rec →
Log shooting setting →
Color Gamut

S-Gamut3.Cine / S-log3*
S-Gamut3 / S-log3

BASE ISO

Exposure/Color →
Exposure →
Base ISO

Base ISO 800 / 12800

* S-Gamut3.Cine / S-Log3 is the most common color space used on FX9 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



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HIGH SPEED | **XAVC S-I 4K (All-I) 10bit 4:2:2: S&Q**

FILE FORMAT	MAX FRAME RATE	MAX RESOLUTION
XAVC S-I 4K	120fps	4K (QFHD) 3840 x 2160

NOTE: When recording in 120fps, the image crop factor is 10%.

NOTE: XAVC S-I 4K 120fps recording is available in S&Q recording mode. Please select 120fps in [S&Q] Frame Rate setting. (<Menu>Shooting → Image Quality → S&Q Setting.)

NOTE: XAVC S-I 120fps recording requires CFexpress Type-A card.

RAW OUTPUT | **16-Bit UNCOMPRESSED HDMI OUTPUT**

SETTING	FRAME RATE	MAX RESOLUTION
With an external recorder	24p/25p/30p/50p/60p	4264 x 2408

NOTE: ATOMOS NINJA V HDR monitor-recorder supported.

NOTE: RAW Output Settings can be accessed from Setup → External Output → HDMI Output Settings → RAW Output → ON.

NOTE: File can be recorded to external monitor connected via HDMI and memory card inside the camera simultaneously. (<Menu>Setup → External Output → HDMI Output Settings → Rec. Media dur HDMI Output → ON).



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LUT OPERATION |

SETTING	MENU	OPERATION/OPTIONS
Registering LUTs*	Exposure/Color → Color/Tone → Manage User LUTs → Import/Edit Input	<ul style="list-style-type: none">• Select User1~User16• Select a LUT file from the memory card and assign it to User1~User16• From the [Input] menu, select either [S-Gamut3.Cine/S-log3] or [S-Gamut3/S-log3].
Selecting a LUT	Exposure/Color → Color/Tone → Select LUT	User1~User16
Displaying a LUT	Setup → Display Option → Display LUT	On Off
Embedding a LUT	 Shooting → Image Quality/Rec → Log shooting setting → Embed LUT File	On Off

*Before importing the LUTs, the LUTs should be saved in the folder on a memory card.

SD card : /Private/Sony/PRO/LUT Cfexpress Card: /Sony/PRO/LUT



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IMAGE ADJUSTMENTS

SETTING	MENU	OPTIONS
Adjusting Contrast	Exposure/Color → Color/Tone → Picture Profile* → Select Any Picture Profile	Gamma: S-Log3 Color Mode: S-Gamut3.Cine Black Level: -15 to +15 Black Gamma → Range: Wide/Middle/Narrow → Level: -7 to +7
Adjusting Color	Exposure/Color → Color/Tone → Picture Profile → Select Any Picture Profile	Gamma: S-Log3 Color Mode: S-Gamut3.Cine Saturation: -32 (fainter in color) to +32 (richer in color) Color Phase: -7 (greenish) to +7 (reddish)
Adjusting Edge emphasizing	Exposure/Color → Color/Tone → Picture Profile → Select Any Picture Profile	Level: -7 (weak) to +7 (strong)

*Log Shooting Setting should be selected “off” to use picture profile.



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STABILIZATION SETTINGS

SETTING	MENU	OPTIONS
SteadyShot	 Shooting → Image Stabilization → SteadyShot	Active Standard Off

NOTE: When SteadyShot is set to Active, the angle of view becomes about 10% narrower. "Standard" setting recommended for focal lengths of 200mm or longer.

MARKER SETTINGS

SETTING	MENU	OPTIONS
Center Marker	 Shooting → Marker Display → Center Marker	On Off
Aspect Marker	 Shooting → Marker Display → Aspect Marker	Off 9:16, 4:5, 1:1, 4:3, 13:9, 14:9, 15:9, 17:9, 1.66:1, 1.85:1, 1.91:1, 2:1, 2.35:1, 2.39:1
Safety Zone	 Shooting → Marker Display → Safety Zone	Off 80% 90%



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OPTIMIZING PERFORMANCE

SETTING	MENU	STANDARD OPERATING PROCEDURE
Sensor Cleaning	Setup → Setup Option → Sensor Cleaning	If dust or debris adheres to the surface of the image sensor, this function may be used to shake off the dust from the sensor. For full procedure, please refer to the help guide.
Pixel Mapping	Setup → Setup Option → Auto Pixel Mapping	Sony recommends [Auto Pixel Mapping: On] for optimized image sensor performance. For full procedure, please refer to the help guide.