

CAMERA PRODUCTION GUIDE | **DJI Inspire 3**

Zenmuse X9-8K Air

Settings and best-practices for DJI Inspire 3 Zenmuse X9-8K Air capture on Netflix 4k Originals.

Current Operation Manual: [HERE](#)

CAPTURE SETTINGS | **CinemaDNG**

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

SETTING	MENU	SELECTION
RECORDING CODEC	VIDEO → Recording Codec →	CinemaDNG
RESOLUTION	VIDEO → Frame → Resolution →	8.1K 17:9 (Full Frame) 8K 16:9 (Full Frame) 4.1K 17:9 (Full Frame) 4K 16:9 (Full Frame) 5.5K 17:9 (S35) 5.2K 16:9 (S35)
RECORD LUT	VIDEO → Rec LUT →	D-Log

CAPTURE SETTINGS | ProRes RAW

SETTING	MENU	SELECTION
RECORDING CODEC	VIDEO → Recording Codec →	ProRes RAW
RESOLUTION	VIDEO → Frame → Resolution →	8.1K 17:9 (Full Frame) 8K 16:9 (Full Frame) 8K 2.39:1 (Full Frame) 4.1K 17:9 (Full Frame) 4K 16:9 (Full Frame) 5.5K 17:9 (S35) 5.2K 16:9 (S35)
RECORD LUT	VIDEO → Rec LUT →	D-Log

* Due to potential pipeline challenges with CinemaDNG and ProRes RAW, we strongly encourage you to sync with the appropriate teams to ensure there aren't any pipeline compatibility issues. In some situations, productions may opt to capture ProRes 422 HQ over CinemaDNG or ProRes RAW in order to bake in D-Gamut/D-Log. This may simplify the process and avoid varying results when debayering or the need to create new mezzanine files.

CAPTURE SETTINGS | **ProRes 422 HQ**

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

SETTING	MENU	SELECTION
RECORDING CODEC	VIDEO → Recording Codec	ProRes 422 HQ
RESOLUTION	VIDEO → Frame → Resolution →	8.1K 17:9 (Full Frame) 8K 16:9 (Full Frame) 4.1K 17:9 (Full Frame) 4K 16:9 (Full Frame) 4.1K 17:9 (S35) 4K 16:9 (S35)
RECORD LUT	VIDEO → Rec LUT →	D-Log Rec.709 HLG LOOK

CAPTURE SETTINGS | **H.264**

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

SETTING	MENU	SELECTION
RECORDING CODEC	VIDEO → Recording Codec →	H.264
RESOLUTION	VIDEO → Frame → Resolution →	4.1K 17:9 (Full Frame) 4K 16:9 (Full Frame) 4.1K 17:9 (S35) 4K 16:9 (S35)
RECORD LUT	VIDEO → Rec LUT →	D-Log Rec.709 HLG LOOK

HIGH SPEED | **CinemaDNG**

MAX FPS	RECORD RESOLUTION	SENSOR RESOLUTION
25fps	8192 X 4320 / 7680 X 4320 (Full Frame)	8192 X 4320 (Full Frame)
100fps	4096 X 2160 / 3840 X 2160 (Full Frame)	4096 X 2160 (Full Frame)
50fps	5568 X 2952 / 5248 X 2952 (S35)	5590 X 3144 (S35)

HIGH SPEED | ProRes RAW

MAX FPS	RECORD RESOLUTION	SENSOR RESOLUTION
60fps	8192 X 4320 / 7680 X 4320 (Full Frame)	8192 X 4320 (Full Frame)
75fps	8192 X 3424 (Full Frame)	8192 X 4320 (Full Frame)
120fps	4096 X 2160 / 3840 X 2160 (Full Frame)	4096 X 2160 (Full Frame)
60fps	5568 X 2952 / 5248 X 2952 (S35)	5590 X 3144 (S35)

HIGH SPEED | ProRes 422HQ

MAX FPS	RECORD RESOLUTION	SENSOR RESOLUTION
30fps	8192 X 4320 / 7680 X 4320 (Full Frame)	8192 X 4320 (Full Frame)
120fps	4096 X 2160 / 3840 X 2160 (Full Frame)	4096 X 2160 (Full Frame)
60fps	4096 X 2160 / 3840 X 2160 (S35)	5590 X 3144 (S35)

HIGH SPEED | H.264

MAX FPS	RECORD RESOLUTION	SENSOR RESOLUTION
120fps	4096 X 2160 / 3840 X 2160 (Full Frame)	4096 X 2160 (Full Frame)
60fps	4096 X 2160 / 3840 X 2160 (S35)	5590 X 3144 (S35)



Production Technology Support

OPTIMIZING PERFORMANCE | **MAINTENANCE PROCEDURES**

Documents and Downloads

ACES IDT for D-Log/D-Gamut and general workflow guidance found [HERE](#).

The recommended workflow for editing CinemaDNG files can be found [HERE](#).

The lens distortion correction guide for ProRes RAW and CinemaDNG videos can be found [HERE](#).

The LUT cube files for converting from D-Log to Rec.709 and Rec.2020 HLG can be found [HERE](#).

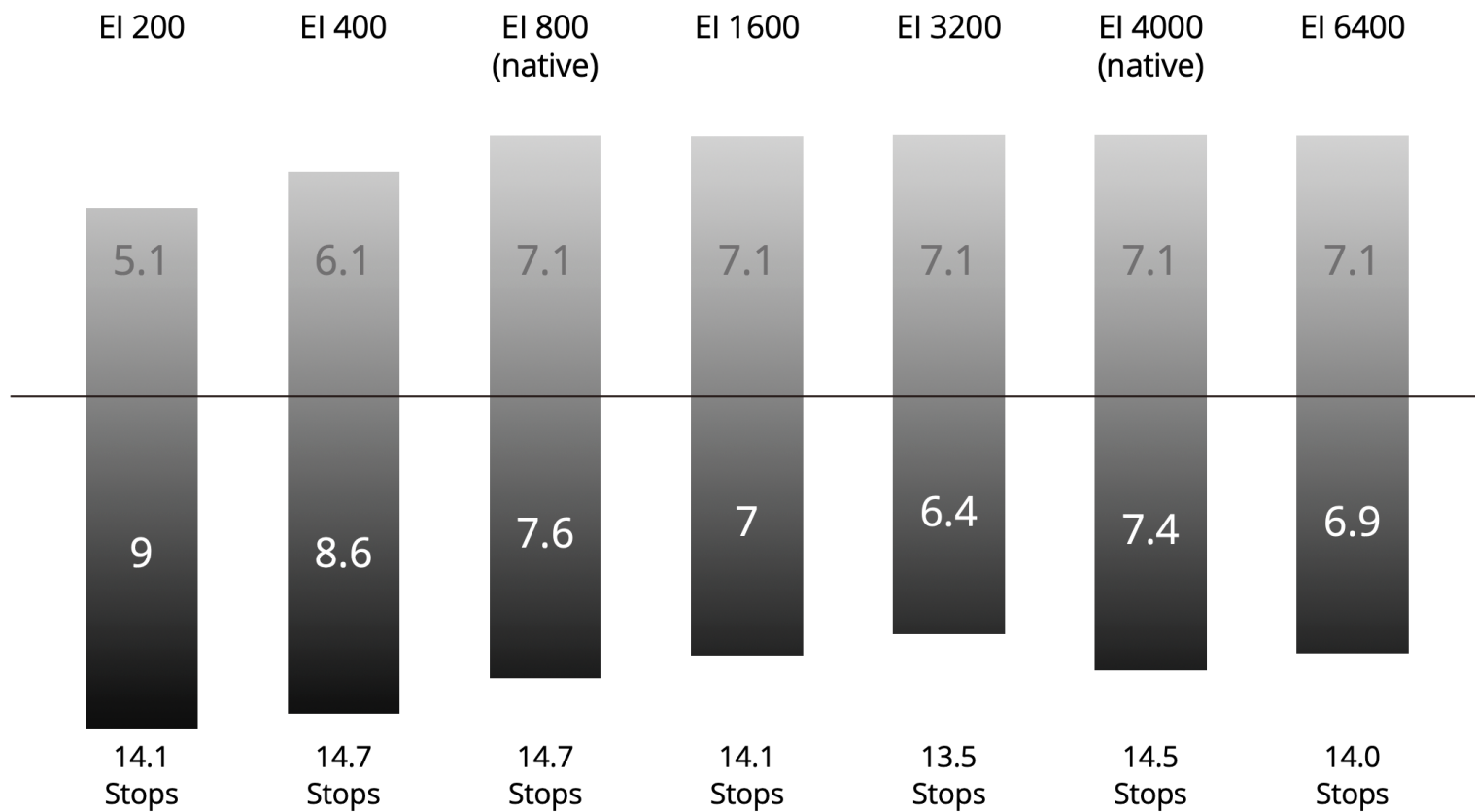
RECORD FORMAT OVERVIEW TABLE

Codec	Fov	Sensor Resolution		Sensor FPS/Rate														
				23.976	24	25	29.97	30	48	50	59.94	60	* Choose after enabling S&Q mode					
													72	75	96	100	119.88	120
Cinema DNG	FF	8192×4320	17 : 9	849MBps	849MBps	885MBps												
		7680×4320	16 : 9	796MBps	796MBps	829MBps												
		4096×2160	17 : 9	212MBps	212MBps	221MBps	265MBps	265MBps	425MBps	442MBps	531MBps	531MBps	637MBps	663MBps	849MBps	885MBps		
		3840×2160	16 : 9	199MBps	199MBps	207MBps	249MBps	249MBps	399MBps	415MBps	498MBps	498MBps	597MBps	872MBps	796MBps	829MBps		
	S35	5568×2952	17 : 9	394MBps	394MBps	411MBps	493MBps	493MBps	789MBps	822MBps								
		5248×2952	16 : 9	372MBps	372MBps	387MBps	465MBps	465MBps	744MBps	775MBps								
ProRes RAW	FF	8192×4320	17 : 9	425MBps	425MBps	442MBps	265MBps	265MBps	425MBps	442MBps	531MBps	531MBps						
		7680×4320	16 : 9	398MBps	398MBps	415MBps	249MBps	249MBps	398MBps	415MBps	498MBps	498MBps						
		8192×3424	2.39 : 1										505MBps	526MBps				
		4096×2160	17 : 9	106MBps	106MBps	111MBps	133MBps	133MBps	212MBps	221MBps	265MBps	265MBps	319MBps	332MBps	425MBps	442MBps	265MBps	265MBps
	S35	3840×2160	16 : 9	100MBps	100MBps	104MBps	124MBps	124MBps	199MBps	207MBps	249MBps	249MBps	299MBps	311MBps	398MBps	415MBps	249MBps	249MBps
		5568×2952	17 : 9	198MBps	198MBps	206MBps	247MBps	247MBps	395MBps	412MBps	494MBps	494MBps						
ProRes 422 HQ	FF	8192×4320	17 : 9	377MBps	377MBps	393MBps	471MBps	471MBps										
		7680×4320	16 : 9	352MBps	352MBps	396MBps	442MBps	442MBps										
		4096×2160	17 : 9	94MBps	94MBps	98MBps	118MBps	118MBps	189MBps	197MBps	236MBps	236MBps	283MBps	295MBps	377MBps	393MBps	471MBps	471MBps
		3840×2160	16 : 9	88MBps	88MBps	92MBps	111MBps	111MBps	177MBps	184MBps	221MBps	221MBps	265MBps	265MBps	354MBps	369MBps	442MBps	442MBps
	S35	4096×2160	17 : 9	94MBps	94MBps	98MBps	118MBps	118MBps	189MBps	197MBps	236MBps	236MBps						
		3840×2160	16 : 9	88MBps	88MBps	92MBps	111MBps	111MBps	177MBps	184MBps	221MBps	221MBps						
H.264	FF	4096×2160	17 : 9	19MBps	19MBps	19MBps	19MBps	19MBps	26MBps	26MBps	26MBps	26MBps	38MBps	38MBps	38MBps	38MBps	38MBps	38MBps
		3840×2160	16 : 9	19MBps	19MBps	19MBps	19MBps	19MBps	26MBps	26MBps	26MBps	26MBps	38MBps	38MBps	38MBps	38MBps	38MBps	38MBps
	S35	4096×2160	17 : 9	19MBps	19MBps	19MBps	19MBps	19MBps	26MBps	26MBps	26MBps	26MBps						
		3840×2160	16 : 9	19MBps	19MBps	19MBps	19MBps	19MBps	26MBps	26MBps	26MBps	26MBps						

Production Technology Support

EI GRAYSCALE

- When recording at Full Frame 30fps and below or at S35:



Production Technology Support

- When recording at Full Frame above 30fps:

