

Z CAM™ E2

4K Cinema Camera



ProRes

ProRes 4:2:2 HQ, ProRes 4:2:2, ProRes 4:2:2 LT

- 4K @160fps*, 10-bit color
- 4/3" WDR CMOS sensor
- 13~15 stops dynamic range (16 stops with WDR enabled)
- Apple ProRes certified
- Gigabit Ethernet for data, control & live streaming**
- Multi-cam synchronization***

*4K 2.4:1 (3840x1620) resolution

**requires Z CAM™ software running on PC

**requires Z CAM™ E2 sync cable (not included)



4K @160fps
4/3" WDR CMOS sensor



10 bit (H.265), 13 stops of dynamic range
(16 stops with WDR)



ProRes 4:2:2 HQ, ProRes 4:2:2,
ProRes 4:2:2 LT

Technical Specifications

Disclaimer: All product features and technical specifications stated are subjected to Z CAM™ 's sole interpretation and explanation. Product specifications reflect both current and projected information. Everything is subject to change.

Camera Features

Sensor Type	4/3" WDR CMOS Sensor
Sensor Size	19.0 x 13.0 mm
Effective Pixels	10.28M
Dynamic Range	13~15 Stops (Z-Log2) / 16 Stops (with WDR activated)
Lens Mount	Micro Four Thirds
Microphone	Built-in Stereo Microphone
Recording	
Resolution	4096 x 2160 (C4K) / 3840 x 2160 (4K) 4096 x 1728 (C4K 2.4:1) / 3840 x 1620 (4K 2.4:1) 3696 x 2772 / 3312 x 2760 2704 x 1600 / 1920 x 1080
Frame Rate	59.94 / 50 / 29.97 / 25 / 24 / 23.98 fps
Max Variable Frame Rate	120 fps for 4096 x 2160 (H.265 only) 120 fps for 3840 x 2160 (H.265 only) 150 fps for 4096 x 1728 (H.265 only) 160 fps for 3840 x 1620 (H.265 only) 160 fps for 2704 x 1600 (H.265 only) 59.94 fps for 3696 x 2772 (Apple ProRes & H.265) 59.94 fps for 3312 x 2760 (Apple ProRes & H.265) 240 fps for 1920 x 1080 (H.265 only) * Please refer to " Appendix 1 " for more detail of the max frame rate for different encoders.
Max Bit Rate	H.265 / H.264 300 Mbps for 4096 x 2160 / 3840 x 2160 / 4096 x 1728 / 3840 x 1620 / 3696 x 2772 / 3312 x 2760 / 2704 x 1600 200 Mbps for 1920 x 1080 ProRes Please check "Apple ProRes White Paper" for the bit rate of ProRes encoding.
Color Bit Depth	10-bit (H.265 & ProRes) & 8-bit (H.264)
Video Encoder	ProRes 422 HQ / ProRes 422 / ProRes 422 LT / ProRes 422

Storage

Media	CFAST 2.0
File System	exFAT
Connectivity	
HDMI	HDMI 2.0 Type A (video output up to C4K @60fps)
USB	USB 3.0 Type C for camera control & data transfer only
I/O	10-pin LEMO port for synchronization (requires additional Sync Cable, not included)
COM	DB-9 connector, supports RS-232
Remote Control	2.5 mm jack socket (Sony LANC compatible)
Audio-in	3.5 mm stereo jack socket for active microphone only, or 5-pin LEMO port for dual channel XLR microphone (requires additional XLR audio connector)
Audio-out	3.5 mm stereo jack socket
Wi-Fi	802.11n, 2.4G with external antenna port
Ethernet	Gigabit Ethernet port for control, setting & live streaming
Power	
Battery	Sony NP-F series compatible (Battery not included)
External Power Supply	DC 12V 5A (4-pin LEMO socket), with LEMO connector and AC/DC power adapter
Physical	
Material	Alluminium Alloy
Weight	757 g (without lens)
	91.2 mm x 99.2 mm x 89.1 mm (without lens)

	Proxy / H.265 main 10 profile / H.264 high profile	Dimensions (W x H x D)
Audio Format	24-bit 48 kHz	Environment
Audio Encoder	AAC / PCM (for MOV only)	Storage Temperature -20 °C ~ 60 °C
File Format	MOV / MP4	Operation Temperature 0 °C ~ 40 °C
Record Mode	Video / Time Lapse Video	
Settings		
ISO	Auto, Manual (500 ~ 102400 / 250 ~ 51200 with WDR activated), Native ISO: 250 / 2500 (250 / 1250 with WDR activated)	
Shutter	Shutter Speed: Auto, Manual (1" ~ 1/8000") or Shutter Angle: Auto, Manual (11.25° ~ 360°)	
White Balance	Auto, Preset, Manual (2300K ~ 7500K)	
Focus Mode	MF / AF / CAF	
Image	Brightness / Contrast / Saturation / Sharpness	
Image Profile	Rec.709 / Z-Log2 / FLAT / HLG	
Audio	Audio In / Out Level	

