

Panasonic

AU-EVA1

Compact Cinema Camera

(Scheduled for release in the fall of 2017)

Preliminary



EVA1





EXPLORE YOUR UNDISCOVERED CREATIVITY WITH 5.7K COMPACT CINEMA CAMERA

- The newly developed 5.7 K Super 35mm image sensor achieves high-quality 4K/10-bit 4:2:2 images.
- The wide 14-stop dynamic range, V-Log gamma and wide-color-gamut V-Gamut colorimetry, which are inherited from the VariCam Series*¹, ensure cinema-like pictures.
- Dual native ISO of 800/2500 offers very high sensitivity with low noise.
- Supports High-frame-rate recording of 4K 60 fps/2K 240 fps maximum.
- The IR (infrared ray) cut filter ON/OFF mechanism provides the ability to shoot fantasy-like IR images with Cinematography mode.
- The main unit is lightweight and compact, weighing only 1.2 kg.*² It is equipped with an EF lens mount.*³ The LCD monitor features a touch-panel function and allows flexible mounting.
- The detachable handle and rotary grip add a new dimension of mobility by enabling the installation of the camera to a drone or gimbal.



*1: Please visit page on VariCam Site; <http://pro-av.panasonic.net/en/varicam/index.html>

*2: Main unit only (excluding the handle, grip and LCD monitor)

*3: Panasonic does not guarantee the compatibility or performance of all EF lenses. More details will be provided on the Panasonic website.

* The photo shows a sample system configuration. The lens and microphone are options.

SPECIFICATIONS

As of August 2017

General Specification

Power:	DC 7.28 V (Battery Operation) DC 12 V (AC adapter operation)
Power Consumption:	19 W (with LCD/HDMI/SDI ON)
Operating Temperature:	0 °C to 40 °C (32°F to 104°F)
Operating Humidity:	10% to 85% (relative humidity)
Storage Temperature:	−20 °C to 60 °C (−4°F to 140°F)
Weight:	Body: Approx. 1.2 kg (2.65 lb) (excluding accessories) Shooting: Approx. 2.05 kg (4.52 lb) (with accessories)
Dimensions:	135 mm (W) x 133 mm (H) x 170 mm (W) (excluding protrusions and accessories) (5-5/16 inches x 5-1/4 inches x 6-11/16 inches)

Camera Unit

Image Sensor:	Super 35 mm, MOS sensor
Number of Pixels:	Total pixels: Approx. 20.49 megapixels, 6340 (H) x 3232 (V) Effective pixels: Approx. 17.25 megapixels, 5720 (H) x 3016 (V)
Sensor Area and Max Frame Rate:	S35: 4K/UHD 60 fps/50 fps 2K/HD 120 fps/100 fps 4/3": 2K/HD 240 fps/200 fps
Latitude:	14 stop
Log:	V-Log
Gamma:	eV-Look Gamma (2 types) Video Gamma Hybrid Log Gamma (HLG)
Gamut:	V-Gamut (V-Log)
EI Settings:	[ISO] mode: NATIVE ISO: 800, 2500 800 Base: 200 to 2000 2500 Base: 1000 to 25600 [dB] mode: (Normal) −12 dB to 8 dB (High) −8 dB to 20 dB
Shutter Speed:	[deg] mode: 1.0 deg to 358 deg (0.5 deg step) 12 presets [sec] mode: 1/24.1 sec to 1/8000 sec (23.98p) 12 presets
Color Temp:	ATW, AWB, 2000 K to 15000 K ±10.0 GMg 12 presets
Lens Mount:	EF mount
Image Stabilization:	Electric Image Stabilization (EIS)
Auto Focus:	One push auto focus
ND Filter:	CLEAR, 0.6ND, 1.2ND, 1.8ND, Electrical driven
IR Cut Filter:	USER assignable IR shooting (filter ON/OFF)

Memory Card Recorder

Recording Media:	SDHC memory card (4 GB to 32 GB) SDXC memory card (32 GB to 128 GB) UHS-I/UHS-II UHS Speed Class3 is supported, Video Speed Class V90 is supported
Recording Slot:	SD memory card slot x 2
Recording Resolution:	4096 x 2160 (4K), 3840 x 2160 (UHD), 2048 x 1080 (2K), 1920 x 1080 (FHD), 1280 x 720 (HD)
Recording System Frequency:	59.94p, 50p, 29.97p, 25p, 24p, 23.98p 59.94i, 50i (AVCHD only)
2slot Functions:	Simul Rec, Relay Rec, Loop Rec*, Background Rec*
Other Rec Functions:	Pre Rec, Interval Rec*, One Shot Rec*

Digital Video

Quantizing:	MOV: 4:2:2 10 bit/4:2:0 8 bit AVCHD: 4:2:0 8 bit
Video Compression Format:	H.264/MPEG-4 AVC High Profile

Digital Audio

Recording Audio Format:	MOV: 48 kHz/24 bit, 2 CH, Linear PCM AVCHD: 48 kHz/16 bit, 2 CH, Dolby Audio™
Headroom:	18 dB/20 dB (menu switchable)

Video Output

SDI OUT:	BNC x 1, SDI REC REMOTE is supported 0.8 V [p-p], 75 Ω, 4K (6G), HD (3G/1.5G) Output format (4:2:2 10 bit): • 4096 x 2160: 29.97p, 25p, 24p, 23.98p • 3840 x 2160: 29.97p, 25p, 24p, 23.98p • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 29.97PsF, 25p, 25PsF, 24p, 24PsF, 23.98p, 23.98PsF • 1280 x 720p: 59.94p, 50p RAW* output format (10 bit): • 5760 x 3072: 29.97p, 25p, 24p, 23.98p • 4096 x 2160: 59.94p, 50p, 29.97p, 25p, 24p, 23.98p
HDMI:	HDMI x 1, TypeA, HDMI REC REMOTE is supported, Viera Link is NOT supported Output format (4:2:2 10 bit): • 4096 x 2160: 59.94p, 50p, 29.97p, 25p, 24p, 23.98p • 3840 x 2160: 59.94p, 50p, 29.97p, 25p, 24p, 23.98p • 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 24p, 23.98p • 1280 x 720: 59.94p, 50p • 720 x 480: 59.94p • 720 x 576: 50p Output format (4:2:0 8 bit): • 4096 x 2160: 59.94p, 50p • 3840 x 2160: 59.94p, 50p

Audio Input/Output

Internal Mic:	Stereo microphone
INPUT1/2:	XLR (3-pin) x 2 (INPUT1/2), input high impedance, LINE/MIC/MIC +48 V (menu switchable) MIC: −40 dBu/−50 dBu/−60 dBu (menu switchable) LINE: +4 dBu/0 dBu (menu switchable)
SDI OUT:	Linear PCM 2 CH
HDMI:	Linear PCM 2 CH
PHONES:	3.5 mm stereo mini jack x 1
Speaker:	20 mm diameter, round x 1

Other Input/Output

TC IN/OUT:	BNC x1 for IN/OUT (menu switchable) IN: 1.0 V [p-p] to 4.0 V [p-p], 10 kΩ OUT: 2.0 V [p-p] ±0.5 V [p-p], low impedance
LCD:	40-pin (Dedicated)
REMOTE:	2.5 mm Super Mini Jack
USB 2.0 (HOST):	Type-A, 4-pin for Wireless Module (AJ-WM50)
EF Mounting Contact:	8-pin
DC IN 12 V:	DC 12 V (10.5 V to 13.5 V) EIAJ type 4

LCD Monitor

Size:	3.5-type LCD monitor (approx. 1,150,000 dots) Touch panel (MENU control, Shooting assist functions)
Switches:	MIRROR (OFF, B/T, ROTATE)

Hand Grip

Mounting Mechanism:	One touch rotatable/Detachable
Switches:	REC, MENU/IRIS dial, User switch x 2

Included Accessories

Accessories:	Battery (5900 mAh), Battery charger, AC adapter, AC cable, Shoulder strap, Microphone holder, Microphone holder adapter, LCD monitor (with hood and mounting attachment), Handle, Grip, Grip belt, Mout cap
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*1: Functions to be supported by firmware update.

* Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.

* Specifications are subject to change without notice.

SPECIFICATIONS 2

As of August 2017

Recording Format and Recording Time

Format	Pixel	Main Codec (bps)	Frequency	Sampling	Bitrate (average)	Recording Time (128 GB)
MOV*	4096 x 2160 (4K)	422Intra 400M <small>Update</small>	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	400 Mbps (VBR)	Approx. 40 min.
		422LongGOP 150M	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	150 Mbps (VBR)	Approx. 1 hour 50 min.
		420LongGOP 150M	59.94p, 50p	4:2:0 8 bit	150 Mbps (VBR)	Approx. 1 hour 50 min.
		420LongGOP 100M	29.97p, 24p, 25p, 23.98p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
	3840 x 2160 (UHD)	422Intra 400M <small>Update</small>	29.97p, 25p, 23.98p	4:2:2 10 bit	400 Mbps (VBR)	Approx. 40 min.
		422LongGOP 150M	29.97p, 25p, 23.98p	4:2:2 10 bit	150 Mbps (VBR)	Approx. 1 hour 50 min.
		420LongGOP 150M	59.94p, 50p	4:2:0 8 bit	150 Mbps (VBR)	Approx. 1 hour 50 min.
		420LongGOP 100M	29.97p, 25p, 23.98p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
	2048 x 1080 (2K)	422Intra 200M <small>Update</small>	59.94p, 50p	4:2:2 10 bit	200 Mbps (VBR)	Approx. 1 hour 20 min.
		422Intra 100M <small>Update</small>	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
		422LongGOP 100M	59.94p, 50p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
		422LongGOP 50M	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	50 Mbps (VBR)	Approx. 5 hour 20 min.
		420LongGOP 100M	59.94p, 50p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
		420LongGOP 50M	29.97p, 24p, 25p, 23.98p	4:2:0 8 bit	50 Mbps (VBR)	Approx. 5 hour 20 min.
		422Intra 200M <small>Update</small>	59.94p, 50p	4:2:2 10 bit	200 Mbps (VBR)	Approx. 1 hour 20 min.
		422Intra 100M <small>Update</small>	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
	1920 x 1080 (FHD)	422LongGOP 100M	59.94p, 50p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
		422LongGOP 50M	29.97p, 25p, 23.98p	4:2:2 10 bit	50 Mbps (VBR)	Approx. 5 hour 20 min.
		420LongGOP 100M	59.94p, 50p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hour 40 min.
		420LongGOP 50M	29.97p, 25p, 23.98p	4:2:0 8 bit	50 Mbps (VBR)	Approx. 5 hour 20 min.
AVCHD	1920 x 1080 (FHD)	PS	59.94p, 50p	4:2:0 8 bit	25 Mbps (VBR)	Approx. 11 hours
		PH	23.98p, 59.94i, 50i	4:2:0 8 bit	21 Mbps (VBR)	Approx. 12 hour 30 min.
		HA	59.94i, 50i	4:2:0 8 bit	17 Mbps (VBR)	Approx. 17 hours
	1280 x 720 (HD)	PM	59.94p, 50p	4:2:0 8 bit	8 Mbps (VBR)	Approx. 35 hours

Update = Functions to be supported by firmware update. * SDXC memory card is required for MOV recording.

Available Memory Card

Format	Memory Card Type	Bitrate/Recording Function	Speed Class
MOV	SDXC	400 Mbps <small>Update</small>	Video Speed Class V60 or faster
		2K/FHD VFR Mode* Intra Codec <small>Update</small>	
		200 Mbps <small>Update</small>	Video Speed Class V30 UHS Speed Class 3 or faster
		150 Mbps	
		100 Mbps	Video Speed Class V10 UHS Speed Class 1 Speed Class 10 or faster
		2K/FHD VFR Mode* LongG Codec	
AVCHD	SDHC/SDXC	50 Mbps	Speed Class 4 or faster
		All	

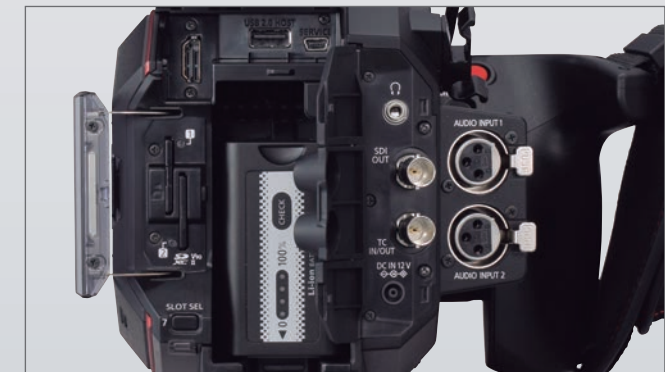
Update = Functions to be supported by firmware update. *VFR: Variable Frame Rate

Available Battery Pack

Battery	Voltage/Capacity	Charge time*
AG-VBR59 (Bundled)	7.28 V 5900 mAh/43 Wh	Approx. 3 hour 20 min.
AG-VBR89G	7.28 V 8900mAh/64 Wh	Approx. 4 hours
AG-VBR118G	7.28 V 11800 mAh/86 Wh	Approx. 4 hour40 min.
AG-VBD58	7.2 V 5800 mAh	Approx. 5 hour20 min.

*When using bundled battery charger.

*Specifications are subject to change without notice.



Rear Terminal

Panasonic

Panasonic Corporation
Connected Solutions Company
2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan
<http://pro-av.panasonic.net/>

<http://pro-av.panasonic.net/en/eva1/>

