

Panasonic

AU-EVA1 NEW CINEMA COMPACT 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: business.panasonic.eu/VariCam

*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.

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 (D) (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 |
|--------------|---|

*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.

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 Update | 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 Update | 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. | |
| | MOV* | 2048 x 1080 (2K) | 422Intra 200M Update | 59.94p, 50p | 4:2:2 10 bit | 200 Mbps (VBR) | Approx. 1 hour 20 min. |
| | | | 422Intra 100M Update | 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. |
| 1920 x 1080 (FHD) | | 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 Update | 59.94p, 50p | 4:2:2 10 bit | 200 Mbps (VBR) | Approx. 1 hour 20 min. | |
| | | 422Intra 100M Update | 29.97p, 24p, 25p, 23.98p | 4:2:2 10 bit | 100 Mbps (VBR) | Approx. 2 hour 40 min. | |
| AVCHD | | 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. |
| | 1280 x 720 (HD) | 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 | |
| | | 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 Update | Video Speed Class V60 or faster |
| | | 2K/FHD VFR Mode* Intra Codec Update | |
| | | 200 Mbps Update | Video Speed Class V30 UHS Speed Class 3 or faster |
| | | 150 Mbps | |
| | | 100 Mbps | |
| AVCHD | SDHC/ SDXC | 2K/FHD VFR Mode* LongG Codec | Video Speed Class V10 UHS Speed Class 1 Speed Class 10 or faster |
| | | 50 Mbps | Speed Class 4 or faster |

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. |

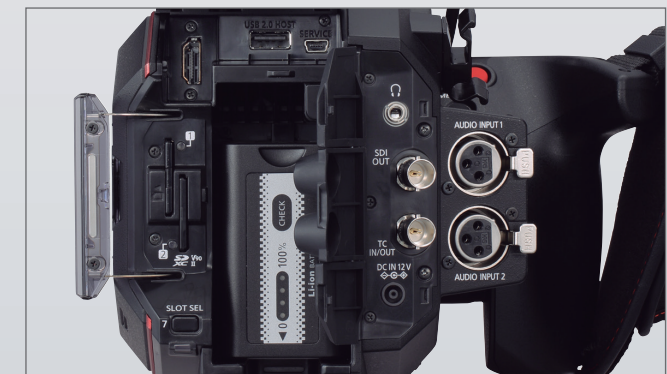
*When using bundled battery charger.

*Specifications are subject to change without notice.

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Rear Terminal