

Panasonic



35






VARICAM

35


4K
PROFESSIONAL

Create Emotion

The Varicam 35 — Changing the Way Emotion is Created

The Varicam line of cameras has been used on a wide variety of movies, commercials, and TV programs, and is renowned for its color reproduction, look, and for bringing progressive workflows to the production industry.

Now the Varicam 35 has arrived. Drawing on the traditions of the original Varicam line, Varicam 35 helps its users create emotion with its amazing latitude, wide color gamut, and 4K resolution. It also revolutionizes workflow with the addition of dual-codec recording, in-camera color grading, and a modular design.

The feature-rich Varicam 35 is ready to create emotion for your next project.



Film-like Images at 4K Resolution, and Revolutionary New Varicam Workflows



4K Images with the Varicam Look

- Newly developed super35mm sensor ideal for 4K (4096 x 2160) and UHD (3840 x 2160) shooting.
- Wide dynamic range 14+ stops of latitude.
- V-Gamut: wide color gamut.
- V-Log: tuned for emotional images.
- V-709: cinematic tuned Rec 709.
- Built-in ND filters (0.6ND, 1.2ND, 1.8ND, CLEAR).
- Built-in low-pass filter tuned for 4K and UV/IR-cut filter.

Revolutionary Dailies in Camera

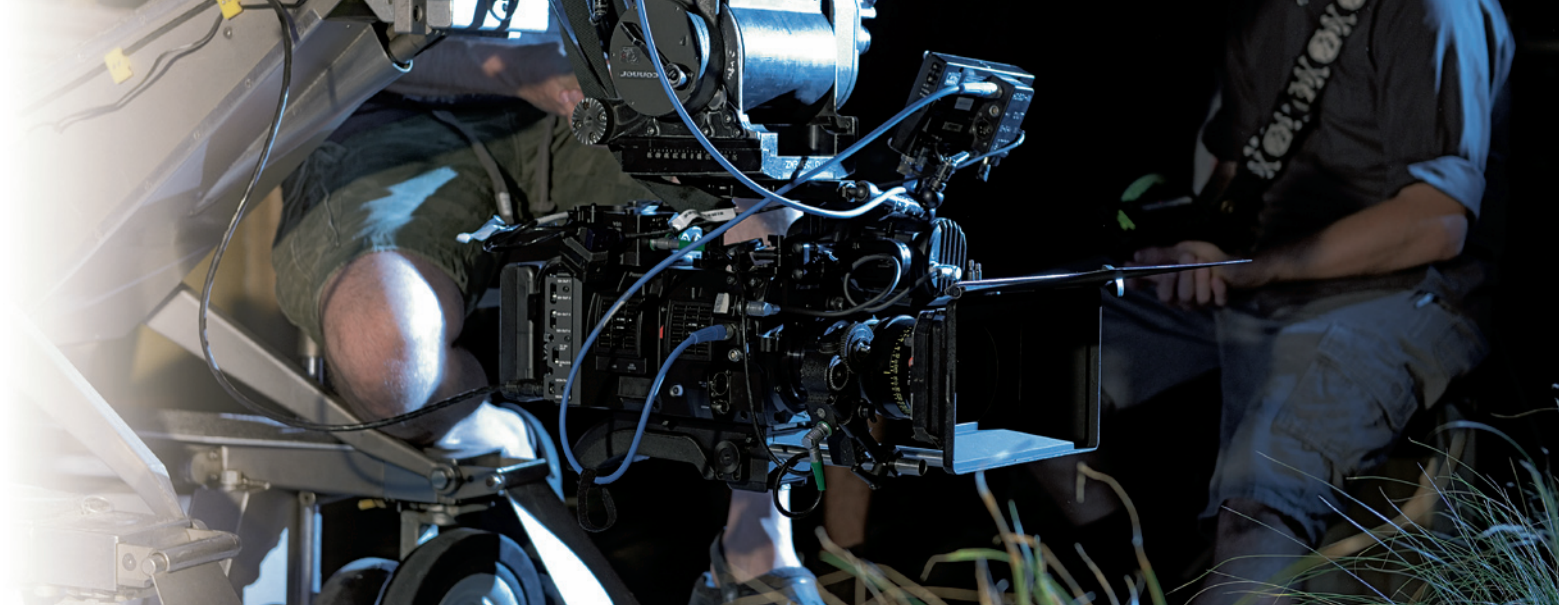
- **In-camera Color Grading**
Color grading function (CDL/3D LUT) allows on-set color grading using control panel or 3rd party software*. CDL/3D LUT files is recorded together with clip.
- **Double Recorder**
Records ungraded 4K master with grading information and graded HD images simultaneously.
- **Dual Codec Recording**
Simultaneously records in two different formats, codecs and selectable from V-log/V-709/Grading.

Multiple Codec, Multiple Outputs

- Supports AVC-Intra4K for 4K and UHD recording.
- AVC-Intra100, AVC-Intra200*1 and Apple ProRes**2 for HD recording.
- Records 24 bit/48 kHz sampling, four channel high-quality digital audio and metadata.
- Variable frame rate recording in the range of 1 fps to 120 fps.*3
- Allows cable-less docking of a Codex V-RAW Recorder.*4
- Provided with 3G-SDI 4K QUAD (BNC x 4) output, Monitor output x 3 and AUDIO (XLR x 2) input.



*1: To be supported by firmware upgrade. For details, please visit Panasonic website. (<http://pro-av.panasonic.net/>) *2: ProRes is licensed from Apple Inc. The ProRes codec component is licensed from ATOMOS. *3: 120fps recording is to be supported by firmware upgrade. *4: Codex V-RAW Recorder is the product of Codex. The use of DCF Technologies is under license from Multi-Format, Inc.



Large-diameter EVF



Detachable control panel



Installation of control panel



Flat top body and handle with screw holes

Newly Developed EVF and Control Panel

EVF (AU-VCVF1G)

- High-resolution 0.7 type (1280 x 720 pixels) OLED panel shows a wide field angle with viewfinder magnification of 0.78x.
- Large-diameter 38mm eyepiece lens offer comfortable viewing with minimum vignetting.
- Optical zoom and advanced focus assist function.

Control Panel (on AU-VREC1G)

- Detachable control panel for enhanced camera flexibility.
- 3.5 type LCD display panel for live preview.
- Direct access to frequently used menu.

Modularity

- Modular structure with independent camera head and recorder module. Dockable camera head is interchangeable with the Varicam HS.
- Flat top and bottom panels for easy installation of various plates.
- Mounting holes provided on both sides and handle for convenient mounting of accessories.
- Shoulder mount module (AU-VSHL1G) can be moved in a range of 110 mm in the front and back direction to accommodate a diversity of lenses.

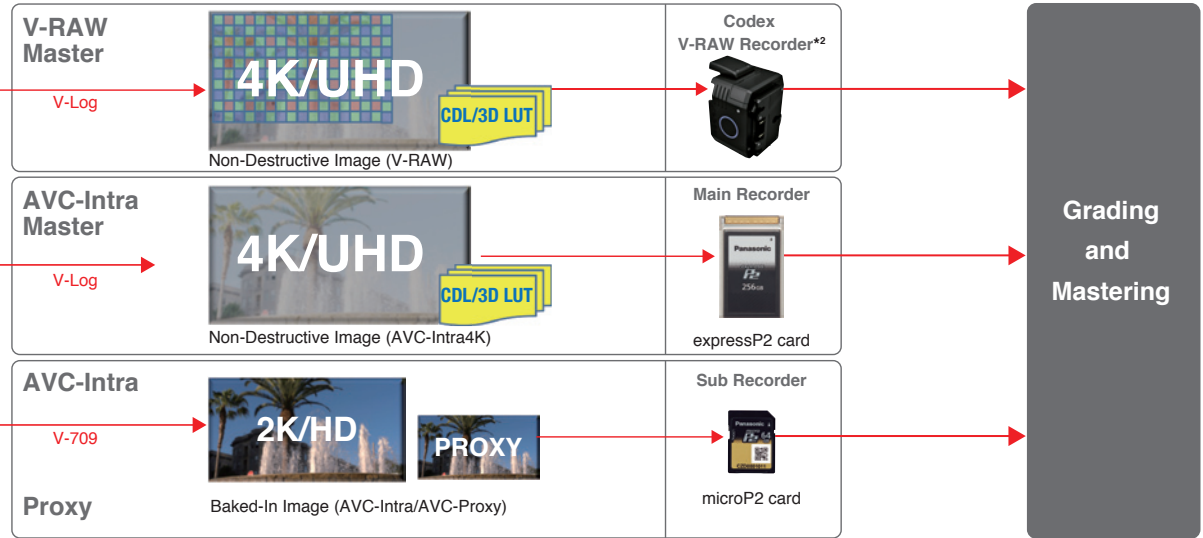
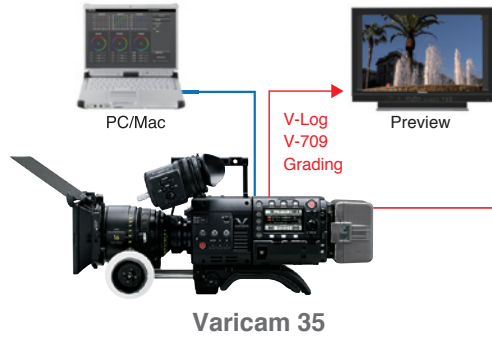
Durability and Reliability

- The lens mount section is made of stainless steel, and designed to prevent flange back deviation due to temperature changes.
- Body made of strong and rigid aluminum alloy.
- Cooling system designed for effective dissipation of heat from the circuitry section.

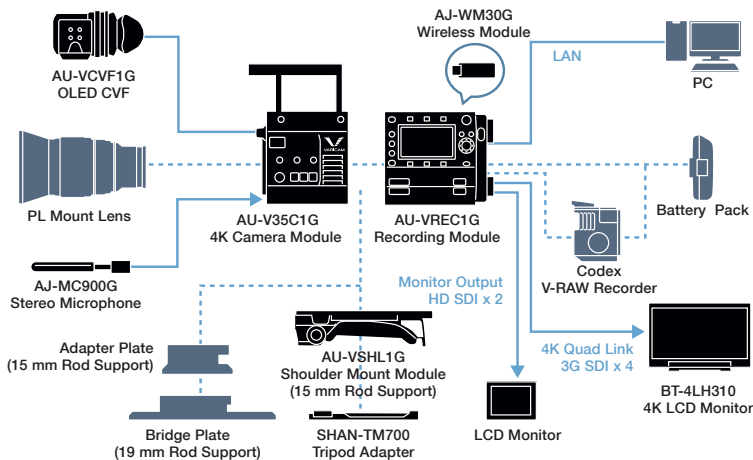
VARICAM 35 WORKFLOW*1









In Camera Color Grading

Remote operation by control panel or 3rd party software*3



VARICAM 35 MODULAR SYSTEM



| | | | |
|---|--|--|--|
|  AU-V35C1G 4K Camera Module |  AU-V23HS1G 2/3 type HD Camera Module |  AU-VREC1G Recording Module |  AU-VCVF1G Electronic HD Color View Finder |
|  AU-VSHL1G Shoulder Mount Module |  AJ-WM30G Wireless Module*3 |  AU-XP0256AG Memory Card "expressP2 card" (256 GB model) |  AU-XPD1 Memory Card Drive "expressP2 drive" |

*1: This chart shows an example of the workflow using Varicam 35. *2: Codex V-RAW Recorder is a product of Codex. This will be available in the near future and supported by Varicam 35 by firmware upgrade. For details, please visit Panasonic website (<http://pro-av.panasonic.net/>).

*3: To be supported by firmware upgrade. For details, please visit Panasonic website. (<http://pro-av.panasonic.net/>)

VARICAM 35 SPECIFICATIONS*1

As of September 2014

General (Combination of AU-V35C1G and AU-VREC1G)

| | |
|--------------------------|---|
| Power: | DC 12 V (11.0 V – 17.0 V) |
| Power Consumption: | 69 W (Body only) 99 W (With all optional accessories connected and maximum power supplied from each output terminal) |
| Operating Temperature: | 0°C to 40°C |
| Operating Humidity: | 10% to 85% (Relative humidity) |
| Storage Temperature: | –20°C to 60°C |
| Weight: | Approx. 5.0 kg (Body only) |
| Dimensions (W x H x D) : | 179 mm x 230.5 mm x 347 mm (7-1/16 inches x 9-1/16 inches x 13 -21/32 inches) (Body only, excluding protrusion) |

Camera Module (AU-V35C1G)

| | |
|-------------------|---|
| Pickup Device: | super35 mm MOS 8.9 million pixels |
| Picture Elements: | Total picture elements : Approx.10.3 million pixels Effective picture elements: Approx. 8.9 million pixels |
| Lens Mount: | 35 mm PL mount |
| Optical Filter: | ND filter: 1: CLEAR, 2: 0.6 ND 3: 1.2 ND, 4: 1.8 ND |
| Gain Settings: | [ISO] mode: ISO 800 to 12800 [dB] mode: 0 to 24 dB (3 dB step) |
| Shutter speed: | [deg] mode: 1.0 to 358 deg (0.5 deg step) [sec] mode: 1/24 to 1/250 (When 24p mode) |

Recording Module (AU-VREC1G) When used with AU-V35C1G Memory Card Recorder

| | |
|--|---|
| Recording Media: | expressP2 card, P2 card, microP2 card |
| Recording Resolution: | 4096 x 2160, 3840 x 2160, 1920 x 1080 |
| Recording Framerate: | Maximum 4K 50p/60p, HD 50p/60p |
| System Frequency: | 59.94p, 50p, 29.97p, 25p, 24p, 23.98p |
| Recording Format: | Main Recorder: AVC-Intra4K 4:2:2, AVC-Intra100 Sub Recorder: AVC-Intra100, AVC-LongG50, AVC-LongG25 |
| Recording Video Signal: | 4096 x 2160/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p |
| Recording/Playback Time: (When expressP2 card 256GB is used)*2 (Main Codec) | Approx. 90 min. (AVC-Intra4K 4:2:2, VFR OFF, 24p) Approx. 36 min. (AVC-Intra4K 4:2:2, VFR ON, 50p/59.94p) Approx. 128 min. (AVC-Intra 100, VFR ON, 50fps/60fps) |
| Recording/Playback Time: (When microP2 card 64GB is used)*2 (Sub Codec) | Approx. 64 min. (AVC-Intra100, 25p/29.97p) Approx. 128 min. (AVC-LongG50, 25p/29.97p) Approx. 256 min. (AVC-LongG25, 25p/29.97p) |

Digital Video

| | |
|---------------------------|--|
| Quantizing: | 10 bit |
| Video Compression Format: | AVC-Intra4K 4:2:2/AVC-Intra100: MPEG-4 AVC/H.264 Intra Profile AVC-LongG50/AVC-LongG25: MPEG-4 AVC/H.264 |

Digital Audio

| | |
|-------------------------|--|
| Recording Audio Signal: | 48 kHz/24 bit, 4 ch Head room 18 dB/20 dB menu switchable |
|-------------------------|--|

Proxy

| | |
|---------------------------|------------------------|
| File Format: | MOV |
| Video Compression Format: | H.264/AVC High Profile |
| Audio Compression Format: | LPCM |
| Recording Time (1 GB)*2: | Approx. 25 min. |

Video Input/Output

| | |
|-----------|--|
| SDI OUT: | HD (1.5 G)/3 G SDI, 0.8 V[p-p], 75 Ω (1 set, 4 pieces) |
| MON OUT1: | HD (1.5 G)/3 G SDI, 0.8 V[p-p], 75 Ω |
| MON OUT2: | HD (1.5 G)/3 G SDI, 0.8 V[p-p], 75 Ω |
| VF SDI: | HD (1.5 G)/3 G SDI, 0.8 V[p-p], 75 Ω |

Audio Input/Output

| | |
|----------------------|--|
| AUDIO IN: (CH1/CH2): | XLR x 2, 3 pin, LINE/MIC/MIC+48 V/AES switchable |
| MIC IN: | XLR x 1, 5 pin |
| PHONES: | Stereo mini jack |
| Speaker: | 20 mm diameter, round x 1 |

Other Input/Output

| | |
|----------------------|---|
| GENLOCK IN: | HD (1.5 G)/3 G SDI, 0.8 V[p-p], 75 Ω |
| TC IN/OUT: | BNCx1, IN/OUT switch selection IN: 0.5 V[p-p] to 8 V[p-p], 10 kΩ OUT: 2.0 ± 0.5 V[p-p], Low impedance |
| DC IN: | XLR 4 pin, DC 12 V (DC 11.0 V to 17.0 V) |
| DC OUT/RS: | 4 pin, DC 12 V (DC 11.0 V to 17.0 V), maximum output current 1.0 A |
| DC OUT: | 2 pin, DC12 V (DC 11.0 V to 17.0 V), maximum output current 1.0 A |
| LENS: | 12 pin x 1, 4 pin x 2 |
| VF: | 14 pin |
| LAN: | 100BASE-TX/10BASE-T |
| USB2.0: (device) : | Type B connector, 4 pin |
| USB2.0: (host) : | Type A connector, 4 pin *3 |
| EXT: | 50 pin (for external recording only) *3 |
| Control Panel (LCD): | 3.5-type QHD color monitor (Approx. 1.56 million dots) |

Electronic HD Color View Finder (AU-VCVF1G)

| | |
|----------------|-----------------------------------|
| Display Panel: | OLED, 0.7-type, 2.76 million dots |
| Signal Input: | 1080/59.94p, 1080/50p, 1080/60p |

*1: Specification is preliminary as of September 2014. Specification subject to change upon firmware upgrade. For the latest specification, please visit Panasonic website. (<http://pro-av.panasonic.net/>) *2: These are reference values for continuous recording. The recording time may differ depending on the scene or the number of clips *3: This will be supported by firmware upgrade. For details, please visit Panasonic website. (<http://pro-av.panasonic.net/>)

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JQA-0443



Factories of AVC Networks Company have received
 ISO14001:2004-the Environmental Management System
 certification. (Except for 3rd party's peripherals.)