

BROADCAST AND PROFESSIONAL CAMCORDER P R O D U C T $\,$ L I N E U P

Panasonic broadcast and professional camcorder product lineup covering all kinds of production needs, including cinema, broadcast, professional and business use.



Cinema Camera

» P.03



VariCam Pure 4K Camera Recorder

VariCam 35 **4K**

4K Camera Recorder



VariCam LT 4K Camera Recorder



4K



VariCam HS 2/3-type HD Camera Recorder



AU-EVA1 Compact Cinema Camera



» P.17

Professional Camera Recorder



AG-DVX200 Memory Card Camera Recorder



Memory Card Camera Recorder



Memory Card Camera Recorder



1

AG-AC30 Memory Card Camera Recorder



AG-UMR20 Memory Card Portable Recorder AG-UCK20GJ Compact Camera Head



AG-MDR25 Memory Card Portable Recorder AG-MDC20GJ Compact Camera Head



CX series » P.33



AJ-CX4000GJ NEW
Memory Card Camera Recorder



AG-CX350 NEW Memory Card Camera Recorder

P2HD series





AJ-PX5100GJ Memory Card Camera Recorder



AJ-PX800G Memory Card Camera Recorder



AJ-PX380G Memory Card Camera Recorder



AJ-PX270 Memory Card Camera Recorder



AJ-PX230 Memory Card Camera Recorder





AJ-PD500 Memory Card Recorder



AJ-PG50 Memory Card Recorder



US Only Model

BT-LH1770P

420 mm (16.5 inches)
LCD Video Monitor





VariCam Pure

4K Camera Recorder

PL Lens | super35mm 1MOS | Codex Capture Drive Slot x 2

Uncompressed 4K/120p V-RAW Recording with Compact, Lightweight Package

- · A Package of the VariCam 35 camera module and the Codex's "V-RAW 2.0" recorder*1
- · Super 35 mm 4K MOS sensor.
 - 14+ stops of latitude with "V-Log" gamma.
 - Dual Native ISO (ISO800/ISO5000).
- Uncompressed 4K/120p V-RAW Recording
 - The recorder captures uncompressed V-RAW data to Codex's Capture Drive 2.0 at 4K up to 120 fps.
 - Using Codex's Production Suite, recorded data can be offloaded as a wide range of file formats including V-RAW, ProRes and DNxHR. This ensures wide-ranging support for existing workflows.
- · High mobility with compact size of 33 mm shorter than VariCam 35.
- · Camera module and recorder module can be operated in separate locations using an extension module.

VariCam 35

4K Camera Recorder

PL Lens | super35mm 1MOS | ProRes

expressP2/P2 card Slot x 2 microP2 card Slot x 2

Super 35 mm 4K MOS Sensor with 4K/120 fps Compatibility in a 4K Cinema Camera.

- · Super 35 mm 4K MOS sensor.
 - 14+ stops of latitude with "V-Log" gamma.
- Dual Native ISO (ISO800/ISO5000). Multiple codec recording for 4K/UHD/2K/HD.
- · 4K/UHD-VFR recording: 1 fps to 120 fps.
- AVC-Intra4K recording (4:4:4 12 bit,*3 4:2:2 10 bit).
- For 2K/HD recording, Apple ProRes*2 is supported in addition to AVC-ULTRA.
- · AVC-Intra 4K/UHD/2K/HD recording.
- Dual codec recording as main (4K/UHD/2K/HD) and sub (2K/HD/Proxy) simultaneously.
- · In-camera color grading function.
- Camera module and recorder module can be operated in separate locations using an extension module.



VariCam HS

2/3-type HD Camera Recorder

2/3-type Lens 2/3-type 3MOS

expressP2/P2 card Slot x 2 microP2 card Slot x 2

HD Acquisition System with 2/3-type Depth of Field and Maximum 240 fps Speed for Capturing Decisive Moments.

- 2/3-type 2.2-megapixel 3MOS sensor.
 - 2/3-type bayonet mount for use with conventional HD lens.
 - 14 stops of latitude, "F REC" and "V-Log" gamma.
- · Maximum 240 fps VFR recording: 1 fps to 240 fps.
- · Multiple codec HD recording.
 - Visually loss-less quality codec AVC-Intra200.
 - Apple ProRes*2 supported.
 - Dual codec recording as main (HD) and sub (HD/Proxy) simultaneously.
- · In-camera color grading function.
- · Camera module and recorder module can be operated in separate locations using an extension module.



EV/\1



VariCam LT

4K Camera Recorder

EF Lens PL Lens (option) super35mm 1MOS

Ready for Live CINE LIVE

ProRes | expressP2/P2 card Slot x 1 | SD Memory Card Slot x 1

Lightweight, Compact 4K Cinema Camera Offering Many of The Features of VariCam 35.

- Firmware version 8.0 or above supports HLG/Rec. 2020 enabling HDR operation for CINE LIVE.
- · Same Super 35 mm 4K MOS sensor as VariCam 35.
 - 14+ stops of latitude with "V-Log" gamma.
 - Dual Native ISO (ISO800/ISO5000).
- A standard EF lens mount*3 and a optional PL mount user changeable mount.
- · V-LOOK scene file mode for creating cinematic images without color grading.
- Native 4K/60p shooting and 2K/HD cropped 240p slow motion.
- · AVC-Ultra 4K/UHD/2K/HD recording.
- For 2K/HD recording, Apple ProRes*2 is supported in addition to AVC-Ultra.
- · Dual codec recording as main (4K/UHD/2K/HD) and sub (proxy) simultaneously.
- · Uncompressed RAW output with 4K or 2K cropped.
- · In-camera color grading function.
- · IR (Infrared) cinematography shooting function.

AU-EVA1

Compact Cinema Camera

Ready for Live **EVA-LIVE**

EF Lens 5.7K super35mm 1MOS SD Memory Card Slot x 2

Explore Your Undiscovered Creativity With 5.7K Compact Cinema Camera

- The 5.7 K Super 35 mm image sensor achieves high-quality 4K/10 bit 4:2:2 images.
- · The wide 14 stops dynamic range, V-Log gamma and wide-color-gamut V-Gamut colorimetry, which are inherited from the VariCam Series, 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.
- · Supports 5.7K RAW output compatible with third party recorders.
- The main unit is lightweight and compact, weighing only 1.2 kg.*5 It is equipped with an EF lens mount.*4 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.



VARICAM/AU-EVA1 Special Site https://pro-av.panasonic.net/en/

^{*} Pictures are the example of the configuration using options.

^{*1 :} Customers who have already purchased the VariCam 35 camera module can also connect to the V-RAW 2.0 recorder AU-VCXRAW2. V-RAW 2.0 is manufactured by Codex and sold by Panasonic. Jointly developed with Codex Digital. *2 : ProRes is licensed from Apple Inc. Apple ProRes codec from Atomos under license. Atomos is trademark and copyright of Atomos Global Pty. Ltd. *3: Up to 30p of frame rate. *4: Panasonic does not guarantee the compatibility or performance of all EF lenses. For more details, to be updated on the Panasonic website. *5: Main unit only (excluding the handle, grip and LCD monitor).



Super 35 mm Native 4K Sensor

All models in the Cinema VariCam Series are equipped with the super 35 mm sensor. This sensor won The Hollywood Post Alliance Engineering Excellence Award 2015.

Wide Latitude "V-Log" Gamma

All models in the series also offer the dynamic range of 14+ stops on "V-Log" gamma. This wide dynamic range assures accurate image rendering, particularly from the critical shadow to highlight areas. Transition into highlights is remarkable for its highly natural roll-off.

Natural "V-Gamut" Color Space

The color separation filter is optimized to achieve the Cinematic VariCam look. It offers natural color and accurate color linearity. The new "V-Gamut" color space encompasses the entire BT. 2020 color space. "V-Log" with "V-Gamut" has sufficient latitude and color space for HDR. Grading output is available for post production.

Dual Native ISO

The image sensor has two native ISO settings: 800 and 5000. This allows the camera to achieve much higher sensitivity without increased noise before gain processing. It captures images with very low light or natural light, reduces the amount of additional lighting required, and may extend the "Magic Hour."

In-Camera Color Grading

A built-in LUT box lets you make color decisions on-set with 3rd party applications. Grading information, such as 3D LUT files and CDL files, allows you to provide the same images you create on-set to post-production with easy management.

4K Master and HD Graded Simultaneous Recording In addition to main recording up to 4K, you can record one more version up to 2K. This enables an ungraded 4K master recording with V-Log, simultaneous with an HD graded recording. You can use the HD graded recording for immediate viewing or off-line editing. Dailies that had been created after shooting can now be produced on-set and with only the camera.

Multi-Codec 4K/UHD/2K/HD Recording

- V-RAW: VariCam Pure supports uncompressed 4K resolution RAW recording with a frame rate of up to 120 fps. VariCam LT can output uncompressed RAW from SDI output terminals.
- AVC-ULTRA: VariCam 35 supports AVC-Intra 4K.

 It offers high picture quality and a manageable file size.
- Apple ProRes:* ProRes (2K/HD) is the industry standard codec.
 * ProRes is licensed from Apple Inc.

Large-Diameter OLED Viewfinder

Newly developed 1080p OLED panel shows very clear & accurate image, no lag, low latency, very sharp, accurate color. Wide field angle with viewfinder magnification of 0.78x and large-diameter 38 mm eyepiece lens offer comfortable viewing with minimum vignetting. Optical zoom adjusts image size to personal preference. This viewfinder assists you to expose properly with the Y-Get (spot meter), waveform, false color and zebra. It is capable of 2x, 3x and 4x expand focus.

Separate Operation with Extension Module VariCam Pure, VariCam 35 and VariCam HS have a modular design. The camera module and recording module can be positioned at separate locations and connected with the AU-VEXT1G Extension Module. This lets you mount only the camera head to a crane, thus adding flexibility to your camera work.

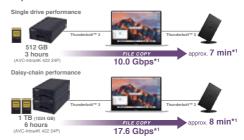


Remote Control App "VariCam ROP"

The VariCam ROP app for iPad/iPhone is available free of charge from the Apple App Store. It enables wireless remote control of the VariCam Series.

* For wireless LAN connection with the camera, the AJ-WM50 or AJ-WM30 Wireless Module must be purchased separately.

Incredibly Fast Offload — expressP2 x Thunderbolt™ 3
The expressP2 card B series has a data offload speed of
10 Gbps. The AU-XPD3 expressP2 Drive, equipped with
Thunderbolt™ 3 interface, brings out the best of the
expressP2 card B series.



- *1: The actual data transfer speed and time depend on the system.
- * Thunderbolt and the Thunderbolt logo are trademarks of Intel Corporation in the U.S. and/or other countries.

Custom Splash Screen and Owner Information

The camera will have 2 visible and indelible marks of ownership.

- Custom Splash Screen: You can personalize your flash screen with any logo, text, or graphics.
- Owner Information: You can input the name, address, and contact information of the equipment's owner.

*Change of 1 and 2 requires password if CSS/Owner Info data in camera is password protected.







The Cinema VariCam line of cameras has been used on a wide variety of movies, commercials, and TV programs.

	movies, commercials, and TV programs.				
	VariCam PURE	VariCam 35	VariCam LT	AU-EVA1	VariCam HS
Module Configuration	Camera Module: AU-V35C1G Recording Module: AU-VCXRAW2	Camera Module: AU-V35C1G Recording Module: AU-VREC1G	AU-V35LT1G (Integrated)	AU-EVA1 (Integrated)	Camera Module: AU-V23HS1G Recording Module: AU-VREC1G
Viewfinder	AU-VCVF2GJ	AU-VCVF2GJ	AU-VCVF20GJ (HD-SDI Input Type)	Supplied LCD	AU-VCVF2GJ
Extension Module	AU-VEXT1G	AU-VEXT1G	-	_	AU-VEXT1G
Lens Mount	PL mount	PL mount	EF mount (exchangeable to optional PL mount)	EF mount	2/3-type B4 mount
Image Sensor	super35 mm, MOS, 8.9 megapixels	super35 mm, MOS, 8.9 megapixels	super35 mm, MOS, 8.9 megapixels	super35 mm, MOS, 17.25 megapixels	2.2 megapixels, MOS x 3
Exposure Latitude	14+ stop	14+ stop	14+ stop	14 stop	14 stop
V-Gamut Color Space.	✓	✓	✓	✓	-
Dual Native ISO	ISO 800, ISO 5000	ISO 800, ISO 5000	ISO 800, ISO 5000	ISO 800, ISO 2500	_
In Camera Grading	✓	✓	✓	_	✓
Recording Media	CODEX Capture Drive	expressP2 card, P2 card, microP2 card (sub)	expressP2 card, P2 card, SD Memory Card (proxy)	SD Memory Card	expressP2 card, P2 card, microP2 card (sub)
Recording Format	4K, UHD	4K, UHD, 2K, HD	4K, UHD, 2K, HD	4K, UHD, 2K, HD	HD
Maximum Frame Rate	120 fps/100 fps	120 fps/100 fps	4K/UHD: 60 fps/50 fps, 2K/HD: 240 fps/200 fps	4K: 60 fps 2K: 240 fps	240 fps/200 fps
Dual Codec Recording	-	✓	✓	-	✓
V-RAW Recording	✓	_	_	_	_
AVC-ULTRA Recording	-	✓	✓	_	✓
ProRes Recording	_	✓	✓	_	✓
RAW Output	-	-	✓	√ *1	-
Remote Control App supported	✓	✓	✓	√ *2	✓
Custom Splash Screen and Owner Information	✓	✓	✓	-	✓

^{√:} It is possible to use it. *1: This function will be supported by version upgrade. *2: "EVA ROP App" for iPad or Android tablet.

VariCam Modules, Accessories, Memory Card Drives and Memory Cards



AU-V35C1G 4K Camera Module



AU-V23HS1G 2/3 type HD Camera Module



AU-VREC1G Recording Module



AU-VCXRAW2 V-RAW2.0 Recorder*1



AU-V35LT1G Memory Card Camera Recorder HD Color View Finder



AU-VCVF2GJ



AU-VCVF20GJ HD Color View Finder



AU-VSHL2G Shoulder Mount Module



AU-VSHL1G Shoulder Mount Module



AU-VMPL1G



AU-VGRP1G Grip Module



AU-VEXT1G



AU-VCBL20G AU-VCBL05G Extension Cable



(20 m) AJ-MC900G

(5 m) Microphone



AG-MC200G XLR Microphone



AJ-MH800G Microphone Holder



AK-HRP200G Remote Operation Panel (ROP)



AK-HRP1000 AK-HRP1005GJ



AU-XPD3 Memory Card Drive expressP2 card drive*2



AU-XPD1 Memory Card Drive expressP2 card drive*2*3*4



AJ-WM50 Wireless Module*5 * Not available in some areas.



AJ-WM30 Wireless Module*5 * Not available in some areas.



Connection Confirmed Wireless Module*5 (including third-party products)



*5: For details please visit Panasonic website (https://pro-av.panasonic. net/en/sales_o/p2/server/wireless_ module.html)

^{*1:} The AU-VCXRAW2 is manufactured by Codex and sold by Panasonic. Jointly developed with Codex Digital. *2: Requires the optional AJ-P2AD1G Memory Card Adapter to use the microP2 card. *3: Connection of the AU-XPD1 requires two USB cables. And a power supply is connected with USB 3.0 port of PC or an AC adaptor. *4: Exchanging AU-XPD1 hardware, free of charge, might be necessary when expressP2 card B series used on AU-XPD1. For details please visit Panasonic website. (https://pro-av.panasonic.net/). "Notes when using expressP2 card B series". *6: It is necessary to upgrade the recorder's firmware. For details please visit Panasonic website. (https://pro-av.panasonic.net/). "Notes when using expressP2 card C series"



AU-XP0256CG

AU-XP0512CG AU-XP0256CG

Memory Card expressP2 card C series*6

NEW Coming soon *

* Replacement of B series due to manufacturing change.



Memory Card





SDXC/SDHC/SD



expressP2 card B series*4

AU-XP0512BG AU-XP0256BG





Memory Card P2card F series



AJ-P2E030FG

microP2 card B series



(64 GB)

(512 GB) AJ-P2E060FG (60 GB) AJ-P2M064BG (30 GB) Memory Card (256 GB) AJ-P2E030FG

■ Optional Accessories for AU-EVA1



AG-VBR118G

(512 GB) AU-XP0512BG

(256 GB) AU-XP0256BG

Memory Card







AG-BRD50

AG-VBR118G AG-VBR89G AG-VBR59 Battery Pack

(11,800 mAh) (8,850 mAh) (5,900 mAh)

VW-VBD58 Battery Pack

(5,800 mAh) AG-BRD50

Battery Charger AG-B23 Battery Charger

		VariCam Pure	VariCam 35	VariCam LT	AU-EVA1	VariCam HS
Electronic HD Color View Finder	AU-VCVF2GJ	✓	✓			✓
View Finder	AU-VCVF20GJ			✓		
Shoulder Mount Module	AU-VSHL2G	✓	✓	✓		✓
Shoulder Mount Module	AU-VSHL1G	✓	✓	✓		✓
PL Mount	AU-VMPL1G			✓		
Grip Module	AU-VGRP1G			✓		
Extension Module	AU-VEXT1G	✓	✓			✓
Extension Cable (20 m)	AU-VCBL20G	✓	✓			✓
Extension Cable (5 m)	AU-VCBL05G	✓	✓			✓
Microphone	AJ-MC900G	✓	✓	✓		✓
XLR Microphone	AG-MC200G				✓	
Microphone Holder	AJ-MH800G	✓	✓	✓		✓
Remote Operation Panel (ROP)	AK-HRP200G	✓	✓	✓		✓
Remote Operation Panel (ROP)	AK-HRP1000			✓		
Remote Operation Panel (ROP)	AK-HRP1005GJ			✓		
Memory Card Drive expressP2 card drive	AU-XPD3 AU-XPD1		✓	✓		✓
Wireless Module*1	AJ-WM50	✓	✓	✓	✓	✓
Wireless Module*1	AJ-WM30	✓	✓	✓		✓
Wireless Module (third-party products)		✓	✓	✓		✓
expressP2 card (C series)	AU-XP0512CG AU-XP0256CG		✓	✓		✓
expressP2 card (B series)	AU-XP0512BG AU-XP0256BG		✓	✓		✓
P2 card (F series)	AJ-P2E060FG AJ-P2E030FG		√ *2	√ *2		✓
microP2 card (B series)	AJ-P2M064BG		✓	✓	✓	✓
SDXC/SDHC/SD Memory Card			✓	✓	✓	✓

^{√:} It is possible to use it. *1: Not available in some areas. *2: 2K/HD only.



4K Workflow Partners are committed to support the VariCam 4K workflow, including AVC-Intra4K, V-LUT, V-RAW, and/or In-Camera Color Grading.

In Camera Grading

Colorfront: On-Set Live! RC6 b19262

Filmlight: Prelight v5.0 In2Core: Qtake v1.3

Pomfort: Live Grade PRO v2.2 WOWOW: Wonder Look Pro v3.5.2

Offloading

Codex: Production Suite

Imagine Products: ShotPutPro

Pomfort: SilverStack YoYotta: YoYottalD

RAW Recorder

Atomos: Shogun Inferno, Shogun Flame,

Sumo19

Codex: V-RAW 2.0 recorder

Convergent Design: Odyssey 7Q/7Q+

Editing/Grading

Adobe: Premiere Pro CC

Apple: Final Cut Pro X

Assimilate: Scratch, Scratch Play

Autodesk: Flame family, Smoke

Avid: Media Composer

Blackmagic Design: DaVinci Resolve,

DaVinci Resolve Studio

Colorfront: On-Set Dailies,

Express Dailies, Transkoder

Digital Vision: NuCoda

Filmlight: Baselight, Daylight

GrassValley: EDIUS Pro,

Quantel Rio, Rio Assist

AVC-Ultra / RAW Import Plug-in

Calibrated Software: AVC-Intra LT Import for Adobe

Drastic Technology: Media Reactor

VariCam PURE

General S	Specification
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Combination	of AU-V35C1G	and AU-VCXRAW2)

Power:	DC IN 24 V
Power Consumption:	105 W
Operating Temperature:	0°C to 40°C (32°F to 104°F)
Operating Humidity:	10 % to 85 % (Relative humidity)
Weight:	Approx. 5.15 kg (11.35 lb)
	(V35C1: 2.7 kg (5.95 lb)/VRAW2.0: 2.45 kg (5.40 lb))
	*5.45 kg (12.02 lb) including a cheese plate
Dimensions:	180.2 mm (W) x 236.3 mm (H) x 314 mm (H)
	(7-3/32 inches x 9-19/64 inches x 12-23/64 inches)
	excluding protrusion and accessories

Camera	
Pickup Device:	Super 35 mm, MOS sensor
Number of Pixels:	Total pixels: Approx. 10.3 million pixels Effective Pixels: Approx. 8.9 million pixels
Lens Mount:	PL mount
Optical Filter:	ND filter: 1: CLEAR, 2: 0.6 ND, 3: 1.2 ND, 4: 1.8 ND
Latitude:	14+ Stops
ISO Setting:	Native ISO: 800, 5000 800 Base: 200 to 4000 5000 Base: 1250 to 12800
Shutter Speed:	[deg] mode: 1.0 deg to 358 deg (0.5 deg step) [sec] mode: 1/24 sec. to 1/250 sec. (for 24p)

V-RAW2.0 Recorder (AU-VCXRAW2)

When used with AU-V35C1G

Memory Card Recorder

Recording Media: CODEX Capture Drive

Recording Resolution:

4096 x 2160 (4K), 3840 x 2160 (UHD)

Recording Frame Rate:

aning i ruinic	riato.	
	Maximum 120 fps/100 fps	

System Frequency 59.94p, 50p, 29.97p, 25p, 24p, 23.98p

Recording Format V-RAW: 4K 12 bit/4K 10 bit/ UHD 12 bit/UHD 10 bit

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

Recording Time: with 2 TB Capture Drive

4K 12 bit (23.98 fps): Approx. 100 min. 4K 10 bit (23.98 fps): Approx. 112 min.

4K 10 bit (120 fps): Approx. 22 min. UHD 12 bit (23.98 fps): Approx. 106 min.

UHD 10 bit (23.98 fps): Approx. 119 min. UHD 10 bit (120 fps): Approx. 23 min.

Digital Video

12 bit/10 bit	
: Uncompressed RAW	
	12 bit/10 bit : Uncompressed RAW

Digital Audio

Recording Audio Signal: 48 kHz/24 bit, 2 CH

Headroom:	18 dB/20 dB MENU switching
Digital Audio	

SDI OUT 1-4:	HD (1.5 G)/3G-SDI: 0.8 V [p-p], 75 Ω
MON OUT 1/2:	HD (1.5 G)/3G-SDI: 0.8 V [p-p], 75 Ω
VF OUT:	HD (1.5 G)/3G-SDI: 0.8 V [p-p], 75 Ω

Audio Input/Output

INPUT 1/2:	XLR x 1, 5-pin	
PHONES:	Stereo mini jack	
Speaker:	20 mm diameter round v 1	_

Other Input/Output

GENLOCK IN:	HD (1.5 G)/3G-SDI, 0.8 V [p-p], 75 Ω
TC IN/OUT:	BNC x 1 (Input/Output switching)
	IN: 0.5 V [p-p] – 8 V [p-p], 10 kΩ
	OUT: 2.0 V [p-p] ± 0.5 V [p-p], low impedance
DC IN:	24 V (10.5 V – 34 V) 2-pin Fisher
DC OUT/RS:	24 V x 3
DC OUT:	12 V x 1
LENS:	12-pin
LAN:	100BASE-TX/10BASE-T LEMO
USB 2.0 (HOST):	Type A connector, 4-pin
CONTROL PANEL	: 20-pin, control panel contact terminals
SD Card Slot:	x1
	for Version Up
	3D LUT/ CDL file Upload and Save
	Set Up File Upload and Save
Control Panel	
Control Pane:	LCD 3.5-type QHD color monitor.

Control Pane:	LCD 3.5-type QHD color monitor,
	approx. 1.56 million dots

Electronic HD Color View Finder (AU-VCVF2GJ)

0.7-type Display Panel:

OLED (Organic Light Emitting Diode) display Input Video Signal: 1080/59.94p, 1080/50p, 1080/60p Connector: LEMO 14-pin

Offload Formats From CODEX Production Suite

Recording Mode	Recording Format
ProRes 422 HQ	1920 × 1080, 10 bit 2048 × 1080, 10 bit 4096 × 2160, 10 bit 3840 × 2160, 10 bit
ProRes 4444	1920 × 1080, 12 bit 2048 × 1080, 12 bit 4096 × 2160, 12 bit 3840 × 2160, 12 bit
ProRes 4444 XQ	1920 × 1080, 12 bit 2048 × 1080, 12 bit 4096 × 2160, 12 bit 3840 × 2160, 12 bit
DNxHR 444	2048 × 1080, 10 bit 3840 × 2160, 10 bit 4096 × 2160, 10 bit
DNxHR HQX	2048 × 1080, 10 bit 3840 × 2160, 10 bit 4096 × 2160, 10 bit
DNxHR HQ	2048 × 1080, 10 bit 3840 × 2160, 10 bit 4096 × 2160, 10 bit

VariCam 35

35	Digital Audia	
		Signal: 48 kHz/24 bit, 4 ch
	Headroom:	18 dB/20 dB menu switchable
and maximum power supplied from each output	Proxy	Mov
		MOV
		sion Format: H.264/AVC High Profile
	Recording Time:	Approx. 25 min. (1 GB)*
	\f\.d== \landsquare \f\.0	atom at
		HD (1.5 G) /3G-SDI, 0.8 V [p-p], 75 Ω (1 set, 4 pieces
		HD (1.5 G)/3G-SDI, 0.8 V [p-p], 75 Ω (1 set, 4 pieces
(Body only, oxoldaning promabler)		HD (1.5 G)/3G-SDI, 0.8 V [p-p], 75 Ω
ile (AU-V35C1G)		HD (1.5G) /3G-SDI, 0.8 V [p-p], 75 Ω
super 35 mm MOS 8.9 megapixels	VI ODI.	112 (1.04) / 04 OD1, 0.0 V [p p], 70 32
Total pixels: Approx. 10.3 million pixels	Audio Input/O	utput
Effective Pixels: Approx. 8.9 million pixels		H2):XLR x 2, 3-pin, LINE/MIC/MIC+48 V/AES switchable
	MIC IN:	XLR x 1, 5-pin
ND filter: 1: CLEAR, 2: 0.6 ND, 3: 1.2 ND, 4: 1.8 ND	PHONES:	Stereo mini jack
	Speaker:	20 mm diameter, round x 1
		·
	Other Input/O	utput
	GENLOCK IN:	HD (1.5 G) /3G-SDI, 0.8 V [p-p], 75 Ω
	TC IN/OUT:	BNC x 1, IN/OUT switch selection
(When 24p mode)		IN: 0.5 V [p-p] to 8 V [p-p], 10 kΩ
dule (AU-VREC1G)		OUT: 2.0 V [p-p] ± 0.5 V [p-p], Low impedance
h AU-V35C1G		XLR 4-pin, DC 12 V (DC 11.0 V - 17.0 V)
ecorder	DC OUT/RS:	4-pin, DC 12 V (DC 11.0 V – 17.0 V),
	DO OUT	maximum output current 1.0 A
	DC OUI:	2-pin, DC12 V (DC 11.0 V – 17.0 V),
	I FNC.	maximum output current 1.0 A
1920 x 1080		12-pin x 1, 4-pin x 2
Rate:		100BASE-TX/10BASE-T
Maximum 4K/UHD 100p/120p, HD 100p/120p		
/: 59.94p, 50p, 29.97p, 25p, 24p, 23.98p		
		: Type A connector, 4-pin 50-pin (for external recording only)*
	EXI.	50-piri (for external recording only)
	Control Panel	
		LCD, 3.5-type QHD color monitor
	Biopiay i arion	Approx. 1.56 million dots
AVC-Intra100, AVC-LongG 50, AVC-LongG 25	Extension M	odule (AU-VEXT1G)
Signal:	Power:	DC 12 V (11.0 V - 17.0 V)
4096 x 2160/59.94p, 50p, 29.97p, 25p, 24p, 23.98p	Power Consumption	on: 33 W (Body only)
3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p		
		63 W (With all optional accessories connected
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p		and maximum power supplied from each output
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p,	On exeting Temporate	and maximum power supplied from each output terminal)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i		and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used*	Operating Humid	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity:10 % to 85 % (Relative humidity)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min.	Operating Humic Storage Temperati	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lifty: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used*	Operating Humid	and maximum power supplied from each output terminal) we: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used' AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OF, 24p): Approx. 180 min. AVC-Intra4K421 (VFR ON, 100 fps/120 fps): Approx. 64 min.	Operating Humio Storage Temperati Weight:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR OK, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OK, 100 fps/120 fps): Approx. 64 min. AVC-Intra4K-LT (VFR OK, 100 fps/120 fps): Approx. 128 min.	Operating Humic Storage Temperati	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) litly:10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module:
2048 x 1080/59,94p, 50p, 29.97p, 25p, 24p, 23,98p 1920 x 1080/59,94p, 50p, 29.97p, 25p, 23.98p, 59,94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra0 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min.	Operating Humio Storage Temperati Weight:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) ifity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR OR, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OR, 24p): Approx. 180 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra4O (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 Fd (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used*	Operating Humio Storage Temperati Weight:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity:10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module:
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OF, 24p): Approx. 180 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra4 (0 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra2K422 (25p/29.97p): Approx. 64 min.	Operating Humio Storage Temperati Weight:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.65 kg 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D)
2048 x 1080/59,94p, 50p, 29,97p, 25p, 24p, 23,98p 1920 x 1080/59,94p, 50p, 29,97p, 25p, 23,98p, 59,94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/66 fps): Approx. 72 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra0 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra2K422 (25p/29,97p): Approx. 64 min. AVC-Intra100 (25p/29,97p): Approx. 64 min.	Operating Humio Storage Temperati Weight:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity:10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.65 kg Recording Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module:
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used' AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K422 (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra100 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used' AVC-Intra2K422 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min.	Operating Humic Storage Temperat Weight: Dimensions:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.65 kg 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D)
2048 x 1080/59,94p, 50p, 29,97p, 25p, 24p, 23,98p 1920 x 1080/59,94p, 50p, 29,97p, 25p, 23,98p, 59,94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/66 fps): Approx. 72 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra0 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra2K422 (25p/29,97p): Approx. 64 min. AVC-Intra100 (25p/29,97p): Approx. 64 min.	Operating Humic Storage Temperati Weight: Dimensions:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.65 kg Camera Extension Module: 21 mm (M) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used' AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K422 (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra100 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used' AVC-Intra2K422 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min.	Operating Humic Storage Temperat Weight: Dimensions:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (M) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (M) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K422 (VFR 0N, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR 0N, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR 0N, 50 fps/60 fps): Approx. 64 min. AVC-Intra4K4C1 (VFR 0N, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR 0N, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min. AVC-LongG 25 (25p/29.97p): Approx. 256 min.	Operating Humic Storage Temperati Weight: Dimensions:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity:10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.65 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K44 (24p): Approx. 90 min. AVC-Intra4K422 (VFR O. K) fbys/60 fbys): Approx. 72 min. AVC-Intra4K-LT (VFR O. H). 100 fbys/120 fbys): Approx. 64 min. AVC-Intra4K-LT (VFR O. N). 100 fbys/120 fbys): Approx. 64 min. AVC-Intra4K-LT (VFR ON, 100 fbys/120 fbys): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fbys): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra2K422 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min. AVC-LongG 25 (25p/29.97p): Approx. 256 min.	Operating Humic Storage Temperat Weight: Dimensions: Input/Output DC IN: DC OUT:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) litiy:10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V), maximum output current 1.0 A
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K422 (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra100 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 128 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min. AVC-LongG 50 (25p/29.97p): Approx. 256 min.	Operating Humic Storage Temperat Weight: Dimensions:	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity:10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.65 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K4422 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OF, 24p): Approx. 180 min. AVC-Intra4K4C1 (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra4T00 (VFR ON, 100 fps/120 fps): Approx. 128 min. ProRes 422 HQ (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 128 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min. AVC-LongG 25 (25p/29.97p): Approx. 256 min. 12 bit (AVC-Intra4K444), 10 bit (Other than AVC-Intra4K444) in Format: AVC-Intra4K444, AVC-Intra4K442,	Operating Humic Storage Temperative Storage Te	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.65 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V), maximum output current 1.0 A 48-pin
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K442 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fbs/66 fps): Approx. 72 min. AVC-Intra4K-LT (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K-LT (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra4K-LT (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra2K-422 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min. AVC-LongG 25 (25p/29.97p): Approx. 256 min. 12 bit (AVC-Intra4K444), 10 bit (Other than AVC-Intra4K444) in Format: AVC-Intra4K-LT, AVC-Intra4K422, AVC-Intra4K-LT, AVC-Intra4K422,	Operating Humic Storage Temperative Meight: Dimensions: Input/Output DC IN: DC OUT: EXT: Electronic H	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (M) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/16 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V), maximum output current 1.0 A 48-pin D Color View Finder (AU-VCVF2GJ)
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p, 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K444 (24p): Approx. 90 min. AVC-Intra4K442 (VFR ON, 50 fps/60 fps): Approx. 72 min. AVC-Intra4K422 (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K422 (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra100 (VFR ON, 100 fps/120 fps): Approx. 128 min. AVC-Intra100 (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra100 (55p/29.97p): Approx. 64 min. AVC-Intra100 (55p/29.97p): Approx. 256 min. AVC-LongG (25p/29.97p): Approx. 256 min. AVC-LongG (25p/29.97p): Approx. 256 min. AVC-Intra4K444, AVC-Intra4K444) In Format: AVC-Intra4K444, AVC-Intra4K442, AVC-Intra4K444, AVC-Intra4K422, AVC-Intra4K-IT, AVC-Intra4K422, AVC-Intra100:	Operating Humic Storage Temperative Storage Storag	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (M) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/18 inches) Recording Extension Module: 106 mm (M) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V), maximum output current 1.0 A 48-pin D Color View Finder (AU-VCVF2GJ) 0.7-type OLED (Organic Light Emitting Diode) display
2048 x 1080/59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i When expressP2 card 512 GB is used* AVC-Intra4K442 (24p): Approx. 90 min. AVC-Intra4K422 (VFR ON, 50 fbs/66 fps): Approx. 72 min. AVC-Intra4K-LT (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K-LT (VFR OFF, 24p): Approx. 180 min. AVC-Intra4K-LT (VFR ON, 100 fps/120 fps): Approx. 64 min. AVC-Intra4K-LT (VFR ON, 60 fps): Approx. 120 min. When microP2 card 64 GB is used* AVC-Intra2K-422 (25p/29.97p): Approx. 64 min. AVC-Intra100 (25p/29.97p): Approx. 64 min. AVC-LongG 50 (25p/29.97p): Approx. 128 min. AVC-LongG 25 (25p/29.97p): Approx. 256 min. 12 bit (AVC-Intra4K444), 10 bit (Other than AVC-Intra4K444) in Format: AVC-Intra4K-LT, AVC-Intra4K422, AVC-Intra4K-LT, AVC-Intra4K422,	Operating Humic Storage Temperative Storage Storag	and maximum power supplied from each output terminal) ure: 0°C to 40°C (32°F to 104°F) lity: 10 % to 85 % (Relative humidity) ure: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (M) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/16 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V), maximum output current 1.0 A 48-pin D Color View Finder (AU-VCVF2GJ)
	terminal) c 0°C to 40°C (32°F to 104°F) c: 10 % to 85 % (Relative humidity) e: -20°C to 60°C (-4°F to 140°F) Approx. 5.0 kg (Body only) 179 mm (M) x 230.5 mm (H) x 347 mm (D) (7-1/16 inches x 9-1/16 inches x 13 -21/32 inches) (Body only, excluding protrusion) Itle (AU-V35C1G) super 35 mm MOS 8.9 megapixels Total pixels: Approx. 10.3 million pixels Effective Pixels: Approx. 8.9 million pixels 35 mm PL mount ND filter: 1: CLEAR, 2: 0.6 ND, 3: 1.2 ND, 4: 1.8 ND Native ISO: 800, 5000 800 Base: 200 to 4000 5000 Base: 1250 to 12800 [deg] mode: 1.0 deg to 358 deg (0.5 deg step) [sec] mode: 1/24 sec. to 1/250 sec. (When 24p mode) dulle (AU-VREC1G) h AU-V35C1G ecorder expressP2 card, P2 card, microP2 card tilon: 4096 x 2160, 3840 x 2160, 2048 x 1080, 1920 x 1080 Rate: Maximum 4K/UHD 100p/120p, HD 100p/120p c: 59.94p, 50p, 29.97p, 25p, 24p, 23.98p c: AVC-Intra4K444, AVC-Intra4K22, AVC-Intra2K422, AVC-Intra4444, AVC-Intra2K422, AVC-Intra4444, ProRes 4424 NQ, ProRes 4444, ProRes 422 HQ, ProRes 4424, ProRes 422 LT AVC-Intra2K422, AVC-Intra4A22, AVC-Intra100, AVC-LongG 50, AVC-LongG 25 Signal: 4096 x 2160/59.94p, 50p, 29.97p, 25p, 24p, 23.98p	## AU-V35C1G and AU-VREC1G DC 12 V (11.0 V – 17.0 V) **s 99 W (With all optional accessories connected and maximum power supplied from each output terminal) **s" 0.0°C to 40°C (32°F to 104°F) **s" 10 % to 85 % (Relative humidity) **s" -20°C to 60°C (-4°F to 140°F) **Approx. 5.0 kg (Body only) 179 mm (W) x 230.5 mm (H) x 347 mm (D) (7-1/16 inches x 9-1/16 inches x 13 -21/32 inches) (Body only, excluding protrusion) **Ide (AU-V35C1G) **super 35 mm MOS 8.9 megapixels Total pixels: Approx. 10.3 million pixels Effective Pixels: Approx. 8.9 million pixels 55 mm PL mount ND filter: 1: CLEAR, 2: 0.6 ND, 3: 1.2 ND, 4: 1.8 ND Native ISO: 800, 5000 800 Base: 1250 to 12800 [deg] mode: 1.0 deg to 358 deg (0.5 deg step) [sec] mode: 1/24 sec. to 1/250 sec. (When 24p mode) **dulle (AU-VREC1G) **h AU-V35C1G **lecorder** **expressP2 card, P2 card, microP2 card tion: 4096 x 2160, 3840 x 2160, 2048 x 1080, 1920 x 1080 Rate: Maximum 4K/UHD 100p/120p, HD 100p/120p 7: 59.94p, 50p, 29.97p, 25p, 24p, 23.98p **call Cultura2K422, AVC-Intra4K422, AVC-Intra4V22, AVC-Intr

VariCam LT

General	Specification

Power:	DC 12 V (11.0 V - 17.0 V)
Power Consumpt	ion: 47 W (with body only)
	77 W (with all optional accessories
	connected and maximum power supplied from each output terminal)
Operating Tempera	ture: 0°C to 40°C (32°F to 104°F)
Operating Humic	lity: 10 % to 85 % (Relative humidity)
Storage Temperat	ure: -20°C to 60°C (-4°F to 140°F)
Weight:	Approx. 2.7 kg (6.0 lb),
	excluding handle and accessories
	Approx. 3.0 kg (6.6 lb),
	including handle, excluding accessories
Dimensions:	184.0 mm (W) x 230.5 mm (H) x 247.0 mm (D)
	(7-1/4 inches x 9-3/32 inches x 9-3/4 inches)
	Body only, excluding protrusion and accessories
Ensure that the to	tal current taken from the DC OUT terminal, LENS/GRIP
terminal, DC OUT	RS terminal and USB HOST terminal does not exceed 30 W

Camera Unit

ouniora onic	
Pickup Device:	Super 35 mm, MOS sensor
Number of Pixels:	Total pixels: Approx. 10.3 megapixels
	Effective pixels: Approx. 8.9 megapixels
Lens Mount:	EF mount
Optical Filter:	ND filter:
	1: CLEAR, 2: 0.6 ND, 3: 1.2 ND, 4: 1.8 ND
Gain setting:	[ISO] mode:
	Native ISO: 800, 5000
	800 Base: 200 to 4000
	5000 Base: 1250 to 12800
	[dB] mode: -12 dB to 14 dB (2 dB step)
Shutter Speed:	[deg] mode: 1.0 deg to 358 deg (0.1 deg step)
	[sec] mode: 1/24 sec. to 1/250 sec. (for 24p)
Sensitivity:	[GAIN MODE]=[NORMAL], [GAMMA]=[VIDEO45]
-	F7 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94p)
	F8 (2000 lx, 3200 K, 89.9 % reflection, 1080/50p)

Memory Card Recorder

Recording Media:	Main slot x 1: expressP2 card, P2 card Sub slot x 1: SD memory card		
Recording Resolution:			
	4096 x 2160 (4K), 3840 x 2160 (UHD),		
	2048 x 1080 (2K), 1920 x 1080 (HD)		

Recording Frame Bate

	4K/UHD: Maximum 60 fps or 50 fps 2K/HD Crop: Maximum 240 fps or 200 fps	
System Frequency:	59.94p, 50p, 29.97p, 25p, 24p, 23.98p,	

59.94i, 50i Recording Format: AVC-Intra4K422, AVC-Intra4K-LT, AVC-Intra2K444, AVC-Intra2K422 (Main Recorder)

AVC-Intra2K-LT, AVC-Intra444, AVC-Intra422, AVC-Intra-LT, AVC-Intra100. ProRes 4444 XQ, ProRes 4444 ProRes 422 HQ, ProRes 422, ProRes 422 LT Recording Format (Sub Recorder):

59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i

AVC-LongG6 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 2048 x 1080/ 59.94p, 50p, 29.97p, 25p, 24p, 23.98p 1920 x 1080/

Recording Time*1: When using expressP2 card 512 GB (Main Codec) and when [FREQUENCY]= [23.98p] AVC-Intra4K422, 23.98 fps: Approx. 180 min. AVC-Intra4K422, VFR ON, 30 fps: Approx. 146 min. AVC-Intra4K-LT, VFR ON, 60 fps: Approx. 128 min. AVC-Intra422, VFR ON, 60 fps: Approx. 260 min.

ProRes 422 HQ VFR ON, 60 fps: Approx. 134 min. Recording Time*1: AVC-LongG6: (Sub Codec) Approx. 655 min

Digital Video

Quantizing:	AVC-Intra2K444, AVC-Intra444: 12 bit
	Others: 10 bit
Video Compres	sion Format:
	AVC-Intra4K422, AVC-Intra4K-LT,
	AVC-Intra2K444, AVC-Intra2K422,
	AVC-Intra2K-LT, AVC-Intra444, AVC-Intra422,
	AVC-Intra-LT, AVC-Intra100:
	MPEG-4 AVC/H.264 Intra Profile
	ProRes 422 HQ, ProRes 4444:
	Apple ProRes*2

Digital Audio

Recording Audio S	Signal:	
	48 kHz/24 bit, 4 ch	
Headroom:	18 dB/20 dB switchable menu	
AVC Proxy		
File Format:	MOV	
Video Compressio	n Format:	
	MPEG-4 AVC/H.264 Intra Profile	
Audio Compression Format:		
	AAC	
Recording Time*3	Approx. 655 min.	
	When using a 64 GB SDXC memory card	
Video Input/Output		

SDI OUT1/ SDI OUT2:

INIDI IT 1/0:	VI D 4 E -!-	
Audio Input/Output		
VF SDI:	HD (1.5 G)/3G-SDI, 0.8 V [p-p], 75 Ω	
	HD (1.5 G)/3G-SDI, 0.8 V [p-p], 75 Ω	

Ī

IINFUI	1/2.	ALN X 1, 5-pill
INPUT	3/ INPUT 4:	XLR x 2, 3-pin, Supports menu switching
		to select LINE/MIC or enable/disable
		the power supply of the microphone.
PHONE	ES:	Stereo mini jack
Speake	er:	20 mm diameter, round x 1

Other Input/Output

GENLOCK IN:	HD (1.5 G) /3G-SDI, 0.8 V [p-p], 75 Ω
TC IN/OUT:	BNC x 1, Input/Output switching
	Input: 0.5 V [p-p] to 8 V [p-p], 10 kΩ
	Output: 2.0 V [p-p] \pm 0.5 V [p-p], low impedance
DC IN:	XLR x 1, 4-pin, DC 12 V (DC 11.0 V - 17.0 V)
DC OUT/RS:	4-pin, DC 12 V (DC 11.0 V - 17.0 V),
	maximum output current 1.0 A
DC OUT:	2-pin, DC12 V (DC 11.0 V - 17.0 V),
	maximum output current 1.0 A
LENS/GRIP:	12-pin
LAN:	100BASE-TX/10BASE-T
USB DEVICE:	USB 2.0 devices: Type B connector, 4-pin
USB HOST:	USB 2.0 host: Type A connector, 4-pin
CONTROL PANEL:	20-pin, control panel contact terminals
EF Mounting Conta	ct:
	8-pin
Control Panel	

Control Panel	
Display Panel:	LCD, 3.5-type QHD color monitor, approx. 1.56 million dots
Electronic HD	Color View Finder (AU-VCVF20GJ)
Display Panel:	0.7-type OLED (Organic Light Emitting Diode) display
Input Video Signal:	1080/59.94p, 1080/50p, 1080/60p, 1080/23.98PsF,
	1080/24PsF, 1080/25PsF, 1080/29.97PsF, 1080/59.94i, 1080/50i

^{*1:} Figures are for continuous recording as one clips. Depending on the number or clips, the overall recording time may be shorter than the above. *2: ProRes is licensed from Apple Inc. Apple ProRes codec is under license from Atomos. Atomos is a trademark and copyright of Atomos Global Pty. Ltd. *3: Reference value for continuous recording. The recording the may differ depending on the scene or the number of clips.

AU-EVA1

	fication	Digital Audio	<u> </u>
Power:	DC 7.28 V (battery operation) DC 12 V (AC adapter operation)	Recording Audio	MOV: 48 kHz/24 bit, 2 CH, Linear PCM
	19 W (when LCD monitor is used)		AVCHD: 48 kHz/16 bit, 2 CH, Dolby Audio™
	::0 °C to 40 °C (32°F to 104°F) : 10% to 80% (relative humidity)	Headroom: Video Outpu	18 dB/20 dB (menu switchable)
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)	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
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)		 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, 23.98Ps 1280 x 720p: 59.94p, 50p
Camera Unit			RAW output format (10 bit): • 5760 x 3072: 29.97p, 25p, 24p, 23.98p
Image Sensor: Number of Pixels:	Super 35 mm, MOS sensor Total pixels: Approx. 20.49 megapixels, 6340 (H) x 3232 (V) Effective pixels:		(up to 30 fps / 25 fps) • 4096 x 2160: 59.94p, 50p, 29.97p, 25p, 24p, 23.98 (up to 60 fps / 50 fps)
	Approx. 17.25 megapixels, 5720 (H) x 3016 (V)		 2048 x 1080: 59.94p, 50p, 29.97p, 25p, 24p, 23.98 (up to 240 fps / 200 fps)
Sensor Area and M	lax Frame Rate: S35: 4K/UHD 60 fps/50 fps 2K/HD 120 fps/100 fps 4/3-type: 2K/HD 240 fps/200 fps	HDMI:	HDMI x 1, TypeA, HDMI REC REMOTE is supported, Viera Link is NOT supported
Latitude:	14 stop		Output format (4:2:2 10 bit): • 4096 x 2160: 59.94p, 50p, 29.97p, 25p, 24p, 23.98
Log:	V-Log		• 3840 x 2160: 59.94p, 50p, 29.97p, 25p, 24p, 23.98
Gamma:	eV-Look Gamma (2 types)		 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p,
	Video Gamma		24p, 23.98p
O	Hybrid Log Gamma (HLG)		 1280 x 720: 59.94p, 50p • 720 x 480: 59.94p 720 x 576: 50p
Gamut:	V-Gamut (V-Log)		Output format (4:2:0 8 bit):
El Settings:	[ISO] mode: NATIVE ISO: 800, 2500 800 Base: 200 to 2000 2500 Base: 1000 to 25600		• 4096 x 2160: 59.94p, 50p • 3840 x 2160: 59.94p, 50
	[dB] mode: (Normal) -12 dB to 8 dB	Audio Input/ Internal Mic:	Stereo microphone
01 11 0 1	(High) –8 dB to 20 dB	INPUT1/2:	XLR (3-pin) x 2 (INPUT1/2), input high impedance
Shutter Speed:	[deg] mode: 3.0 deg to 357.0 deg (0.5 deg step) 12 presets [sec] mode: 1/24.1 sec to 1/8000 sec (23.98p) 12 presets	INI 011/2.	LINE/MIC/MIC +48 V (menu switchable) MIC: -40 dBu/-50 dBu/-60 dBu (menu switchable) LINE: +4 dBu/0 dBu (menu switchable)
Color Temp:	ATW, AWB, 2000 K to 15000 K ±10.0 GMg	SDI OUT:	Linear PCM 2 CH
	12 presets	HDMI:	Linear PCM 2 CH
Lens Mount:	EF mount	PHONES:	3.5 mm stereo mini jack x 1
	Electric Image Stabilization (EIS)	Speaker:	20 mm diameter, round x 1
Auto Focus:	One push auto focus	Other Input/	Output
ND Filter:	CLEAR, 0.6 ND, 1.2 ND, 1.8 ND, Electrical driven	TC IN/OUT:	BNC x1 for IN/OUT (menu switchable)
IR Cut Filter: Memory Card	USER assignable IR shooting (filter ON/OFF) Recorder		IN: 1.0 V [p-p] to 4.0 V [p-p], 10 k Ω OUT: 2.0 V [p-p] ±0.5 V [p-p], low impedance
	SDXC memory card (32 GB to 128 GB),	LCD:	40-pin (for connecting LCD monitor)
	SDHC memory card (4 GB to 32 GB)	REMOTE:	2.5 mm Super Mini Jack
	UHS-I/UHS-II UHS Speed Class3 is supported,	USB 2.0 (HOST)	
	Video Speed Class V90 is supported	EF Mounting Cont	
Recording Slot:	SD memory card slot x 2	DC IN 12 V:	DC 12 V EIAJ type 4
Recording Resolution	1:4096 x 2160 (4K), 3840 x 2160 (UHD), 2048 x 1080 (2K), 1920 x 1080 (FHD),	LCD Monitor	
Recording System		Size:	3.5-type LCD monitor (approx. 1,150,000 dots) Touch panel
	59.94p, 50p, 29.97p, 25p, 24p, 23.98p 59.94i, 50i (AVCHD only)	Switches:	(MENU control, Shooting assist functions) MIRROR (OFF, B/T, ROTATE)
Recording Format:	Please see page 14 for the Recording Format and Recording Time table	Hand Grip	WIRTHOUT (OFF, B/T, NOTALE)
Recording Time:	Please see page 14 for the	Mounting Mech	
2 slot Functions:	Recording Format and Recording Time table Simul Rec, Relay Rec	Switches:	One touch rotatable/Detachable REC, MENU, MENU/IRIS multi-dial,
	: Pre Rec, Interval Rec	Switches.	User switch x 2
Digital Video		Included Ac	cessories
Quantizing:	MOV: 4:2:2 10 bit/4:2:0 10 bit (HEVC)/4:2:0 8 bit	Accessories:	Battery (5900 mAh), Battery charger, AC adapte
Video Compression	AVCHD: 4:2:0 8 bit		AC cable, Shoulder strap, Microphone holder, Microphone holder adapter, LCD monitor (with hood and mounting attachment), Handle, Grip,
	H.265/MPEG-4 AVC High Profile H.265/MPEG-H HEVC Main 10 High Profile		Grip belt, Mount cap

Recording Format and Recording Time

Format	Pixel	Main Codec (bps)	Frequency	Sampling	Bit Rate (average)	Recording Time (128 GB)
		422ALL-I 400M	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.
	4096 x 2160	HEVC LongGOP 200M	59.94p, 50p	4:2:0 10 bit	200 Mbps (VBR)	Approx. 1 hour 20 min.
	(4K)	HEVC LongGOP 150M	29.97p, 24p, 25p, 23.98p	4:2:0 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 hours 40 min.
		422ALL-I 400M	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.
	3840 x 2160	HEVC LongGOP 200M	59.94p, 50p	4:2:0 10 bit	200 Mbps (VBR)	Approx. 1 hour 20 min.
	(UHD)	HEVC LongGOP 150M	29.97p, 24p, 25p, 23.98p	4:2:0 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.
MOV*		420LongGOP 100M	29.97p, 25p, 23.98p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
MOV		422ALL-I 200M	59.94p, 50p	4:2:2 10 bit	200 Mbps (VBR)	Approx. 1 hour 20 min.
		422ALL-I 100M	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
	2048 x 1080	422LongGOP 100M	59.94p, 50p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
	(2K)	422LongGOP 50M	29.97p, 24p, 25p, 23.98p	4:2:2 10 bit	50 Mbps (VBR)	Approx. 5 hours 20 min.
		420LongGOP 100M	59.94p, 50p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
		420LongGOP 50M	29.97p, 24p, 25p, 23.98p	4:2:0 8 bit	50 Mbps (VBR)	Approx. 5 hours 20 min.
		422ALL-I 200M	59.94p, 50p	4:2:2 10 bit	200 Mbps (VBR)	Approx. 1 hour 20 min.
		422ALL-I 100M	29.97p, 25p, 23.98p, 59.94i, 50i	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
	1920 x 1080	422LongGOP 100M	59.94p, 50p	4:2:2 10 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
	(FHD)	422LongGOP 50M	29.97p, 25p, 23.98p, 59.94i, 50i	4:2:2 10 bit	50 Mbps (VBR)	Approx. 5 hours 20 min.
		420LongGOP 100M	59.94p, 50p	4:2:0 8 bit	100 Mbps (VBR)	Approx. 2 hours 40 min.
		420LongGOP 50M	29.97p, 25p, 23.98p	4:2:0 8 bit	50 Mbps (VBR)	Approx. 5 hours 20 min.
		AVCHD PS	59.94p, 50p	4:2:0 8 bit	25 Mbps (VBR)	Approx. 11 hours
AVCHD	1920 x 1080 (FHD)	AVCHD PH	23.98p, 59.94i, 50i	4:2:0 8 bit	21 Mbps (VBR)	Approx. 12 hours 30 min.
AVCHD	(1110)	AVCHD HA	59.94i, 50i	4:2:0 8 bit	17 Mbps (VBR)	Approx. 17 hours
	1280 x 720 (HD)	AVCHD PM	59.94p, 50p	4:2:0 8 bit	8 Mbps (VBR)	Approx. 35 hours

^{*} SDXC memory card is required for MOV recording.

Available Memory Card

Format	Memory Card Type	Bit Rate or Recording Function	Speed Class
	MOV SDXC	400 Mbps	Video Octob Olego VOO outestan
		2K/FHD VFR Mode* (ALL-I Codec)	Video Speed Class V60 or faster
		200 Mbps	
MOV		150 Mbps	Video Speed Class V30,
IVIOV		100 Mbps	UHS Speed Class 3 or faster
		2K/FHD VFR Mode* (LongG Codec)	
		50 Mbps	Video Speed Class V10, UHS Speed Class 1, Speed Class 10 or faster
AVCHD	SDHC/SDXC	All	Speed Class 4 or faster

^{*}VFR: Variable Frame Rate

Available Battery Pack

Battery	Voltage and Capacity	Charge time*1	Continuous shooting time*2
AG-VBR59 (Bundled)	7.28 V, 5900 mAh/43 Wh	Approx. 3 hours 20 min.	Approx. 2 hours 50 min.
AG-VBR89G	7.28 V, 8850 mAh/64 Wh	Approx. 4 hours	Approx. 4 hours 15 min.
AG-VBR118G	7.28 V, 11800 mAh/86 Wh	Approx. 4 hours 40 min.	Approx. 5 hours 40 min.
VW-VBD58	7.2 V, 5800 mAh/42 Wh	Approx. 5 hours 20 min.	Approx. 2 hours 40 min.

^{11:} When using bundled battery charger. "2: "Continuous shooting time" is when you use this machine in the following condition [Menu setting is factory preset, Have LCD monitor and grip attached, No cable is connected to outputs]. Under other conditions, continuous shootable time becomes shorter.

Proxy

VariCam	HS
General Specific	
	f AU-V23HS1G and AU-VREC1G)
Power: Power Consumption:	DC 12 V (11.0 V – 17.0 V) 90 W (With all optional accessories connected and maximum power supplied from each output terminal)
	:0°C to 40°C (32°F to 104°F)
Operating Humidity:	10 % to 85 % (Relative humidity) -20°C to 60°C (-4°F to 140°F)
Weight:	Approx. 4.5 kg (Body only)
Dimensions:	179 mm (W) \times 230.5 mm (H) \times 347 mm (D) (7-1/16 inches \times 9-1/16 inches \times 13-21/32 inches) (Body only, excluding protrusion)
Camera Modul	le (AU-V23HS1G)
Pickup Device:	2/3-type 2.2 megapixels, MOS x 3
Lens Mount:	2/3-type bayonet
Optical filter:	CC filter A: 3200 K, B: 4300 K, C: 5600 K, D: 0.3N
Gain Settings:	ND filter 1: CLEAR, 2: 0.6ND, 3: 1.2ND, 4: 1.8ND [ISO] mode: ISO 2500 to 12800
	[dB] mode : 0 dB to 18 dB (3 dB step)
Shutter Speed:	[deg] mode: 1.0 deg to 360 deg (0.5 deg step) [sec] mode: 1/24 sec. to 1/250 sec. (when 23.98p mode)
Sensitivity:	[Gamma: HD] mode: F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94p)
	F10 (2000 lx, 3200 K, 89.9 % reflection, 1080/50p)
Recording Mod When used with	dule (AU-VREC1G) AU-V23HS1G
Memory Card Re	ecorder
Recording Media:	expressP2 card, P2 card, microP2 card
Recording Resoluti	
Recording Frame F	Rate: Maximum 240p/200p
	59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i
Recording Format: (Main Recorder)	AVC-Intra444, AVC-Intra200, AVC-Intra422, AVC-Intra100,
Decarding Format	ProRes 4444 XQ, ProRes 4444, ProRes 422 HQ, ProRes 422, ProRes 422 LT
(Sub Recorder)	AVC-Intra422, AVC-Intra100, AVC-LongG 50, AVC-LongG 25
Recording Video Si	gnal: 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i, 720/59.94p, 50p
Recording Time:	When expressP2 card 512 GB is used*1
(Main Codec)	Approx. 256 min. (AVC-Intra100, VFR OFF) Approx. 64 min. (AVC-Intra100, VFR ON, 200 fps/240 fps)
	Approx. 120 min. (ProRes 422 HQ, VFR ON, 60 fps)
Recording Time: (Sub Codec)	When microP2 card 64 GB is used*1 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:	AVC-Intra2K444, AVC-Intra444: 12 bit Others: 10 bit
Video Compression	
	AVC-Intra100: MPEG-4 AVC/H.264 Intra Profile AVC-LongG 50, AVC-LongG 25:
	MPEG-4 AVC/H.264 ProRes 422 HQ, ProRes 4444: Apple ProRes
Digital Audio	
Recording Audio S	
	48 kHz/24 bit, 4 ch Head room 18 dB/20 dB menu switchable

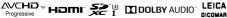
Proxy	
File Format:	MOV
Video Compressi	
	H.264/AVC High Profile
Audio Compressi	ion Format: LPCM
Recording Time (
riecording rime (Approx. 25 min.
	Kh
Video Input/Ou	rtput
SDI OUT:	HD (1.5 G) /3G-SDI: 0.8 V [p-p], 75 Ω (1 set, 4 pieces)
MON OUT1:	HD (1.5 G) /3G-SDI: 0.8 V [p-p], 75 Ω
MON OUT2:	HD (1.5 G) /3G-SDI: 0.8 V [p-p], 75 Ω
VF SDI:	HD (1.5 G) /3G-SDI: 0.8 V [p-p], 75 Ω
Audia Immud/Ou	alan al
Audio Input/Οι AUDIO IN (CH1/C	
710010 114 (011170	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/Ou	
GENLOCK IN:	HD (1.5 G) /3G-SDI: 0.8 V [p-p], 75 Ω
TC IN/OUT:	BNC x 1, IN/OUT switch selection
	IN: 0.5 V [p-p] to 8 V [p-p], 10 k Ω OUT: 2.0 V [p-p] \pm 0.5 V [p-p], Low impedance
DC IN:	XLR 4-pin, DC12 V (DC 11.0 V – 17.0 V)
DC OUT/RS:	4-pin, DC12 V (DC 11.0 V – 17.0 V),
	maximum output current 1.0 A
DC OUT:	2-pin, DC12 V (DC 11.0 V – 17.0 V),
	maximum output current 1.0 A
LENS:	12-pin
VF:	14-pin
LAN:	100BASE-TX/10BASE-T
	. T D
USB 2.0 (DEVICE	
USB 2.0 (DEVICE	
USB 2.0 (DEVICE USB 2.0 (HOST)	
USB 2.0 (DEVICE USB 2.0 (HOST) : Control Panel	: Type A connector, 4-pin
USB 2.0 (DEVICE USB 2.0 (HOST) : Control Panel	
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel:	Type A connector, 4-pin LCD, 3.5-type QHD color monitor Approx. 1.56 million dots
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V)
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo	LCD, 3.5-type OHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) on:33 W (Body only)
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V - 17.0 V) m:33 W (Body only) 63 W (With all optional accessories connected
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) on: 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power Consumption	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V - 17.0 V) n:33 W (Body only) 63 W (With all optional accessories connected
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo Power: Power Consumption Operating Temperatu Operating Humidi	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) on: 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity)
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo Power: Power Consumption Operating Temperatu Operating Humidi	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) on: 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity)
USB 2.0 (DEVICE USB 2.0 (HOST) Control Panel Display Panel: Extension Mo Power: Power Consumption Operating Temperatu Operating Humidi Storage Temperatu	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) mag w (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mc Power: Power Consumptic Operating Temperatu Operating Humidi Storage Temperatu Weight:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V - 17.0 V) 10:33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) 10:0° C to 40° C (32° F to 104° F) 10:10 % to 85 % (Relative humidity)
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mc Power: Power Consumptic Operating Temperatu Operating Humidi Storage Temperatu Weight:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots odule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) on: 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: –20°C to 60°C (–4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module:
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mc Power: Power Consumptic Operating Temperatu Operating Humidi Storage Temperatu Weight:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 10.33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) 10.00 to 40°C (32°F to 104°F) 10.10 to 85 % (Relative humidity) 10.10 to 85 % (Relative humidity) 10.10 to 80°C (-4°F to 140°F) 10.10 Camera Extension Module: Approx. 0.95 kg 10.10 Recording Extension Module: Approx. 0.65 kg 10.10 Camera Extension Module: Approx. 0.65 kg 10.10 Camera Extension Module: Approx. 0.65 kg 10.10 Camera Extension Module: Approx. 0.70 kg
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mc Power: Power Consumptic Operating Temperatu Operating Humidi Storage Temperatu Weight:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V - 17.0 V) 10.33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) 10.0° C to 40° C (32° F to 104° F) 10.10° C to 60° C (-4° F to 140° F) 10.10°
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USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power Consumption Operating Temperatu Operating Humidi Storage Temperatu Weight: Dimensions:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 133 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) 17e: 0°C to 40°C (32°F to 104°F) 17y: 10 % to 85 % (Relative humidity) 17e: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Appr
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power Consumption Operating Temperatu Operating Temperatu Weight: Dimensions:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: –20°C to 60°C (–4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.95 kg Camera Extension Module: Approx. 0.95 kg Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.95 kg Recording Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: Approx. 0.95 kg Recording Extension Module: Approx.
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mc Power: Power Consumptic Operating Temperatu Operating Temperatu Weight: Dimensions:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Ddule (AU-VEXT1G) DC 12 V (11.0 V - 17.0 V) 10:33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) 10:0°C to 40°C (32°F to 104°F) 10:10 % to 85 % (Relative humidity) 10:10 % to 95 % (Relative humidity) 10:10 % to
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mc Power: Power Consumptic Operating Temperatu Operating Temperatu Weight: Dimensions:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Dotule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) riy: 10 % to 85 % (Relative humidity) re: 20°C to 60°C (–4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V)
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power: Consumption Operating Temperatu Operating Humidi Storage Temperatu Weight: Dimensions: Input/Output DG IN: DC OUT:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Dodule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.85 kg Recording Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V) maximum output current 1.0 A
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power: Consumption Operating Temperatu Operating Humidi Storage Temperatu Weight: Dimensions: Input/Output DG IN: DC OUT:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Dotule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) riy: 10 % to 85 % (Relative humidity) re: 20°C to 60°C (–4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V)
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power: Consumption Operating Temperatu Weight: Dimensions: Input/Output DC IN: DC OUT: EXT:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Dodule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: Approx. 0.85 kg Recording Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V) maximum output current 1.0 A
USB 2.0 (DEVICE USB 2.0 (HOST): Control Panel Display Panel: Extension Mo Power: Power: Coperating Temperatu Operating Humidi Usbrage Temperatu Weight: Dimensions: Input/Output DG IN: DC OUT: EXT: Electronic HI	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Dodule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: –20°C to 60°C (~4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.85 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) 2-pin, DC 12 V (DC 11.0 V – 17.0 V), maximum output current 1.0 A 48-pin
USB 2.0 (DEVICE USB 2.0 (HOST). Control Panel Display Panel: Extension Mo Power: Power Consumption Operating Temperatu Weight: Dimensions: Input/Output DG IN: DC OUT: EXT: Electronic HI Display Panel:	LCD, 3.5-type QHD color monitor Approx. 1.56 million dots Dodule (AU-VEXT1G) DC 12 V (11.0 V – 17.0 V) 33 W (Body only) 63 W (With all optional accessories connected and maximum power supplied from each output terminal) re: 0°C to 40°C (32°F to 104°F) ty: 10 % to 85 % (Relative humidity) re: -20°C to 60°C (-4°F to 140°F) Camera Extension Module: Approx. 0.95 kg Recording Extension Module: Approx. 0.65 kg Camera Extension Module: 121 mm (W) x 143 mm (H) x 73 mm (D) (4-13/16 inches x 5-11/16 inches x 2-7/8 inches) Recording Extension Module: 106 mm (W) x 143 mm (H) x 61 mm (D) (4-3/16 inches x 5-11/16 inches x 2-7/16 inches) XLR 4-pin, DC 12 V (DC 11.0 V – 17.0 V) z-pin, DC 12 V (DC 11.0 V – 17.0 V) maximum output current 1.0 A 48-pin D Color View Finder (AU-VCVF2GJ)

^{*} These are reference values for continuous recording. The recording time may differ depending on the scene or number of clips.













AVCHD TO HOME SEE 1 MOOLBY AUDIO LEICA DICOMAR

AG-DVX200

Memory Card Camera Recorder

4/3-type MOS SD Memory Card Slot x 2

4K/UHD/HD Integrated Lens System (Optical 13x Zoom)

New 4/3-type Sensor Opens New Doors for Image Production with an Integrated Lens 4K/60p*1 Camera Recorder.

- 4/3-type sensor for beautiful bokeh effects and 4K resolution.
- · 12 stops of latitude from V-Log L gamma.
- · Variable frame rate HD recording up to 120 fps.
- Nimble mobility with an optical 13x zoom lens and intelligent full-auto functions.
- High quality 4K 10-bit 4: 2: 2 images can be output via the HDMI terminal.
- · Microdrive focus unit provides a high-speed, highprecision Intelligent AF.
- · Advanced Optical Image Stabilizer (O.I.S.) expand

correction area with ball OIS system.

- · The Five-axis Hybrid Image Stabilizer effects handshake correction in various directions.*2
- · Dual Codec Recording allows images to be simultaneously recorded into two different. Main UHD*3/FHD and Sub FHD, formats.
- · Two SD Memory Card slots boosts recording reliability: Background Recording, Relay Recording, Simultaneous Recording, SD Memory Card Copy.
- · The manual three rings and other controls are specially designed to satisfy professional users.
- Equipped with professional interfaces such as 3G-SDI out, XLR in and TC preset in/out.
- Wireless remote control from an iPad.*4

AG-UX180

Memory Card Camera Recorder

4K/UHD/HD Integrated Lens System (Optical 20x Zoom)

1.0-type MOS SD Memory Card Slot x 2

4K 60p/50p*1 Camcorder featuring the Industry's Widest Angle 24 mm,*5 20x Optical Zoom and 1.0-type MOS Sensor.

- · High-definition, high-sensitivity 1.0-type (effective size) MOS sensor.
- 4K 24p, UHD 60p/50p, FHD 60p/50p multi-format and HD 120 fps (59.94 Hz) /100 fps (50 Hz) super slow-motion recording are available.
- · New microdrive focus unit provides a high-speed, high-precision Intelligent AF.
- · Advanced hand-shake correction with increased correction area, ball OIS system, and Five-axis Hybrid Image Stabilizer. (FHD only)
- · Dual Codec Recording allows images to be simultaneously recorded into two different, Main UHD*3/FHD and Sub FHD, formats.
- Two SD Memory Card slots boosts recording reliability: Background Recording, Relay Recording, Simultaneous Recording.
- · The manual three rings and other controls are specially designed to satisfy professional users.
- · Equipped with professional interfaces such as 3G-SDI out, XLR in and TC preset in/out.
- Wireless remote control from an iPad.*4

^{*}Pictures are the example of the configuration using options.

^{*1:} Actual recording is UHD (3840 x 2160) 59.94p/50p.

^{*2:} It does not work in 4K / UHD shooting mode.

^{*3:} UHD 60p/50p recording mode is not supported.

^{*4;} iOS 7.1, iOS 8.1, and iOS 9 are supported. The optional AJ-WM50/WM30 Wireless Module is required for wireless connection.

^{*5:} Equivalent to 35 mm under 4K 24p (aspect ratio of 17:9) Wide angle 24 mm is the widest in the industry for a camcorder with integrated lens.

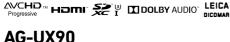
⁽As of September 2018, according to Panasonic survey.) 6: 35 mm film camera equivalent in FHD mode. 35.4 mm in UHD mode.

^{*7: 60} Hz area model: UHD 30p/24p, FHD 60p. 50 Hz area model: UHD 25p, FHD 50p.

^{*8: 35} mm camera equivalent







Memory Card Camera Recorder

1.0-type MOS SD Memory Card Slot x 2

UHD/HD Integrated Lens System (Optical 15x Zoom)

4K (UHD) /FHD Camcorder with a Wide-Angle 24.5 mm*6, 15x Optical Zoom Lens and 1.0-type MOS Sensor.

- · High-definition 1.0-type MOS sensor.
- UHD 30p (25p*7) /24p, FHD 60p (50p*7) multi-format recording are available.
- · High bit rate 50 Mbps mode for FHD image recording.
- · New microdrive focus unit provides a high-speed, high-precision Intelligent AF.
- · Advanced hand-shake correction with increased correction area, ball OIS system, and Five-axis Hybrid Image Stabilizer. (FHD only)
- Two SD Memory Card slots boosts recording reliability: Relay Recording, Simultaneous Recording.
- · The manual three rings and other controls are specially designed to satisfy professional users.
- · Pro-level functions and design, including XLR audio input.
- Wireless remote control from an iPad.*4



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AG-AC30

*This model is not available in some areas.

Memory Card Camera Recorder

1/3.1-type 1MOS SD Memory Card slot x 2

HD Integrated Lens System (Optical 20x Zoom)

Geared for the Mobile Shooter A New Dimension in Low-Light Shooting and Professional Functions.

- · Built-in LED video light with a diffusion filter and a color conversion filter.
- 29.5 mm wide-angle*8 and 20x zoom lens.
- · Five-axis hybrid O.I.S.+ (Optical Image Stabilizer).
- Intelligent AF achieves superior focus speed, excellent stability and high tracking performance.
- · 3.0-type slide-retractable LCD with touch operation.
- · Supports AVCHD progressive recording PS mode.
- Supports MP4/MOV FHD 50Mbps high bit rate recordina.
- Dual SD Memory Card slots achieves relay and simultaneous recording to dual memory cards.
- · Professional designed of sturdy handle, tiltable viewfinder with eyecup and three manual rings.
- · Two-channel XLR audio input terminals.

4K lens and 4K Image Sensor

LEICA DICOMAR 4K Zoom Lens

- LEICA DICOMAR: The lenses have passed the stringent quality standards of Leica Camera AG. A multi-coating process minimizes ghosts and flaring.
- * Leica is a registered trademark of Leica Microsystems IR GmbH.
- * DICOMAR is a registered trademark of Leica Camera AG.
- LEICA DICOMAR products are manufactured using Leica-certified measuring instruments and quality assurance systems based on rigorous quality standards approved by Leica Camera AG.
- Wide Angle Zoom: Its enable wide-angle and minimaldistortion shooting without the use of a conversion lens and allows shooting in a vehicle or room. The AG-UX180 achieves 24 mm⁺¹ wide-angle and 20x zoom ratio.

High Quality 4K Image Sensor

The AG-DVX200 features a 4/3-type, large format MOS sensor. It creates highly attractive Bokeh effects by blending 4K resolution with shallow depth of field. The AG-UX180/UX90 feature a 1.0-type MOS sensor provides an appropriate depth of field and excellent balance between image quality and sensitivity.

i.Zoom in Super-High Resolution

In FHD shooting modes, the i.Zoom function increases the zooming capability while maintaining high resolution.

Digital Zoom (2x, 5x or 10x)

Using the optical zoom and i.Zoom*2 (in FHD) together, it gives you super telephoto magnification without dropping in light intensity.

Advanced Optical Image Stabilizer (O.I.S.)

The correction area has been expanded to the conventional model. This provides powerful correction even in unstable shooting situations. The ball OIS system reduces wear on the drive section, and greatly improves correction for small amplitude hand-shake.

Five-Axis Hybrid Image Stabilizer [in FHD]

In HD shooting modes, by using hand-shake correction that combines the effects of both optical and electronic image stabilization, hand-shake in various directions, including the rotary direction, is detected and corrected.

Manual Three Rings

All models feature manual three rings for Zoom, Focus and Iris control. Precise operation is possible by this function.

High-Speed AF, Various Picture Adjustment

High-Speed, High-Precision Intelligent Auto Focus The Micro Drive Focus unit achieves high focusing speed, tracking performance and stability in 4K.

Custom AF Function

Auto focus operation can be customised by adjusting the AF Speed, AF Sensitivity and AF Area Width. This function enables the AF to operate exactly as intended by the user in accordance with the subject type or application.

Focus Assist

- Expand and Peaking: Expand (enlargement)*3 or Peaking (colored emphasis of focus point) is displayed to assist manual focusing. Its can also be displayed simultaneously.
- One-Push AF: This function temporarily activates Auto Focus when shooting in manual focus mode.
- Manual Focus Assist*4: Focus is automatically adjusted after you adjust it with the focus ring. (AG-DVX200/UX180)
- Focus Transition: The focus can be shifted to a preset position with a single touch. (AG-DVX200/UX180)
- Area Function: Auto Focus, Auto Iris or Brightness Display with just a touch on the LCD panel.

V-Log L Gamma/8-Mode Gamma

- V-Log L gamma: The AG-DVX200 features a 12-stop wide dynamic range of V-Log L gamma that is equivalent to the V-Log and curve characteristics provided on the Cinema VariCam Series.
- 8-Mode gamma: All models are equipped with eight selectable gamma modes, including Cine-Like Gamma.

Creative Image Adjustment Functions

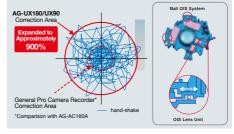
- 16-Axis Independent Color Correction: It enables color matching of multiple cameras as well as creative image rendering. (AG-DVX200/UX180)
- Skin Detail: Makes skin colors appear soft and beautiful.
 Master Detail: Adjusts the overall degree of contour.
- Master Detail: Adjusts the overall degree of contour enhancement.
- Scene Files: Six files preset with picture quality settings are provided as Scene Files. You can change any of the settings as desired and store as Custom Files.

IR (Infrared) Shooting in Dark Places

IR shooting is possible by turning the IR REC ON*5. Images can be captured in dark places by using an IR light (commercially available). (AG-DVX200/UX180)



An image shot using the wide angle.(AG-UX180/UX90)



4K/High Frame Rate Shooting

4K/UHD/FHD/SD Multi-Format Recording

MOV (QuickTime), MP4 and AVCHD file formats are supported. The variety of recording modes with selectable image quality, frame rate and bit rate settings respond to a wide range of applications, from cinema production to online distribution.

*Applicable recording modes varies depending on the models.

High Frame Rate and Variable Frame Rate

- AG-DVX200: High frame rate of up to 60 fps at UHD. Variable frame rate of 2 to 120 fps at FHD.*6
- AG-UX180: High frame rate of maximum 120 fps at HD. Variable frame rate of 2 to 60 fps at FHD.*6
- AG-UX90: Variable frame rate of 2 to 60 fps at FHD.*6

Double SD Memory Card Slots

Two SD card slots are provided. This enables below recording functions that ensure high operability and high recording reliability.

- \bullet Relay Rec.: Automatically records continuously*7 "Slot to Slot". Images can be recorded for many hours.
- Simultaneous Recording: Identical data is recorded onto cards in both slots.
- Background Rec.: Records Rec Start/Stop-controlled data in Slot 1, and records all data, even when Slot 1 is stopped, in Slot 2. (AG-DVX200/UX180)
- Dual Codec Rec.: This function records images simultaneously into two different formats, Main (UHD or FHD) and Sub FHD. Sub-recording files can be used for preview, off-line editing and online transmission, thus improving the workflow efficiency. (AG-DVX200/UX180)

Other Recording Functions

- Pre Rec: This function constantly caches few seconds of video and audio data prior to Rec Start, so the data can be recovered in case there is a delay in pressing Rec Start.
- Interval Rec: Records intermittently based on a set interval time of 1 sec, 10 sec, 30 sec, 1 minute or 2 minutes.
- Freeze Frame: Still Image can be recorded together with audio. This function is convenient when moving the camera to a different location or when shooting a different scene.
- Time Stamp: The date and time can be stamped onto recorded images.

near Intelligent AF Focal Distance Conventional AF time



By moving the Micro Drive Focus Unit minutely and quickly, highly precise AF performance is also achieved when shooting in 4K or shooting with a shallow depth of field.

The Micro Drive Focus achieves highly precise AF performance (AG-DVX200/UX180/UX90)

Professional Function and Design

16-bit PCM Professional Audio

- High-Quality Audio Recording: All models record two audio channels using either the 16-bit linear PCM (MOV/MP4) or Dolby Audio (AVCHD).
- XLR AUDIO IN: Equipped with two channels of XLR audio input (with switchable 48 V phantom power supply, MIC and LINE), manual audio volume and OSD level meter.

Touch-panel LCD/EVF

- •LCD Monitor: The monitor LCD built into the handle section can be pulled out and turned 270 degrees in the vertical direction. The touch panel function can be used for menu setting and area functions. It can be display WFM (AG-DVX200/UX180), ZEBRA, Marker (Y Level) and Level Gauge.
- EVF: The viewfinder features a high-resolution display for excellent color reproduction.

Shooting Assist Functions

- User Buttons: Any of the various functions can be allocated.
- ND Filters: OFF, 1/4, 1/16, 1/64.
- Gain Selector: Select from 3-position (L/M/H) allocation.
- AWB Selector: Two-value (A/B) memory and presets (3200/5600/VAR) can be selected.

Professional Interfaces

- SDI OUT: Panasonic recorders equipped with SDI input can be linked to the Rec Start/Stop function of the camera. (AG-DVX200/UX180)
- HDMI OUT: Digital outputs support 4K/UHD.
- TC PRESET IN/OUT: Time code synchronization is possible for two cameras. (AG-DVX200/UX180)
- USB: Connection with PC/external storage are possible.
- REMOTE: Wired remote operation of iris, focus, zoom and REC start/stop are possible.
- iPad Remote Control: The AG ROP app for iPad*s is available free of charge from the Apple App Store.
 It enables wireless remote control of Panasonic 4K cameras with installation of a wireless module (optional AJ-WM50 or AJ-WM30).

*1: Equivalent to 35 mm, in 4K 24p (17:9 aspect ratio), 25.4 mm in UHD/FHD (16:9 aspect ratio). *2: The higher the magnification, the greater the image quality degradation. *3: The part to be expanded is designated by touching the screen. *4: Not operable in combination with VFR or wired remote controller. *5: When the IR REC is ON, iris, gain, and shutter speed are automatically adjusted. *6: Selective mode differs by product. *7: Recording can continue across multiple SD Memory Cards. However, each time the file reaches 96 GB, it will be split into two files, but the recording continues. If the Relay recording time reaches 10 hours, shooting will temporarily stop, and then automatically restart a few seconds later. **
E: CS 7.1, IOS 8.1, and IOS 9 are supported.



Double SD Memory Card Slots (an example of AG-DVX200)

AG-DVX200

General	
Power:	DC 7.2 V (when the battery is used)
Power Consumption	DC 12 V (when the AC adaptor is used)
	e:0°C to 40°C (32°F to 104°F)
	y: 10 % to 80 % (no condensation)
Weight: Approx.	2.7 kg (5.95 lb)
vvoigni. Approx.	(body only, excluding lens hood, battery,
	and accessories)
	Approx. 3.1 kg (6.84 lb)
	(including lens hood, battery, and eye cup)
Dimensions:	181 mm (H) x 216 mm (W) x 374 mm (D)
	(excluding protrusion and eye cup)
	(7-1/8 inches x 8-1/2 inches x 14-23/32 inches)
Camera Unit	
Pickup Device:	4/3-type MOS
Effective Pixcels:	FHD (1920 x 1080): 15.49 megapixel
2.1001.101.100.0.	UHD (3840 x 2160) 59.94p/50.00p: 8.71 megapixel
	UHD (3840 x 2160) 29.97p/25p.00: 12.89 megapixel
	4K (4096 x 2160) 24p: 13.35 megapixel
Lens:	Optical image stabilizer lens,
	motorized/manual mode switching, 13x zoom
	F2.8 to F4.5 (f=12.8 mm to 167 mm)
	35 mm equivalent:
	FHD: 28.0 mm to 365.3 mm UHD 59.94p/50.00p: 37.2 mm to 485.1 mm
	UHD 29.97p/25.00p: 37.2 mm to 483.1 mm
	4K 24p: 29.5 mm to 384.9 mm
Filter Diameter:	72 mm
ND Filter:	OFF, 1/4, 1/16, 1/64
IR Filter:	Incorporates the ON/OFF control function
Shortest Shooting	Distance (M.O.D.):
_	Approx. 1.0 m from the front lens
Gain Setting:	L/M/H selector switch
	−6 dB to −1 dB, 0 dB to 24 dB (Adjustable in
	1 dB steps. Negative gain values are
	available only when [EXPAND] is enabled, and
Super Gain:	the automatic setting can be assigned to L/M/H.] 30 dB and 36 dB switched
Super Gain.	(when assigning [S.GAIN] to the USER button)
Color Temperature	
oolor romporature	ATW, ATW LOCK, Ach, Bch, preset 3200 K/
	preset 5600 K/VAR (2000 K to 15000 K)
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
	 60i/60p mode: 1/60 sec., 1/100 sec.,
	1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec.,
	1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec.,
	1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec., 30p mode: 1/30 sec., 1/50 sec., 1/60 sec.,
	• SUP ITIOGE: 1/30 Sec.,1/50 Sec.,1/60 Sec.,
	1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec.
	1/1500 sec., 1/2000 sec., 1/3000 sec.,
	1/4000 sec., 1/8000 sec.
	· 24p mode: 1/24 sec., 1/48 sec., 1/50 sec.,
	 24p mode: 1/24 sec., 1/48 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec.,
	1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec.,
	1/1000 sec., 1/1500 sec., 1/2000 sec.,
	1/3000 sec., 1/4000 sec., 1/8000 sec.
	When [SYSTEM MODE] = 50 Hz • 50i/50p mode: 1/50 sec., 1/60 sec., 1/100 sec.
	1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec.,
	1/500 sec., 1/750 sec., 1/1000 sec., 1/350 sec., 1/350 sec.,
	1/1500 sec., 1/2000 sec., 1/3000 sec.,
	1/4000 sec., 1/8000 sec.
	• 25p mode: 1/25 sec., 1/50 sec., 1/60 sec.,
	1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec.,
	1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec.,
	1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec., 1/4000 sec., 1/8000 sec.

Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
(Slow)	 60i/60p mode: 1/2 sec., 1/4 sec., 1/8 sec.,
	1/15 sec., 1/30 sec.
	• 30p mode: 1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec.
	• 24p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
	When [SYSTEM MODE] = 50 Hz
	• 50i/50p mode: 1/2 sec., 1/3 sec., 1/6 sec.,
	1/12 sec., 1/25 sec. • 25p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
(Synchro Scan)	60i/60p mode: 1/60.0 sec. to 1/249.8 sec.
(=,,	30p mode: 1/30.0 sec. to 1/249.8 sec.
	 24p mode: 1/24.0 sec. to 1/249.6 sec.
	When [SYSTEM MODE] = 50 Hz
	 50i/50p mode: 1/50.0 sec. to 1/250.0 sec.
	25p mode: 1/25.0 sec. to 1/250.0 sec.
Shutter Open Angle	: 5.0 deg to 180.0 deg to 360.0 deg
	(in 0.5 deg steps, angle display)
VFR Recording Fra	
	When [SYSTEM MODE] = 59.94 Hz
	• 60p mode: 2, 15, 30, 40, 55, 58, 60, 62, 65, 75,
	90, and 120 (frames per second)
	• 30p mode: 2, 15, 26, 28, 30, 32, 34, 45, 60, 75,
	90, and 120 (frames per second) • 24p mode: 2, 12, 18, 20, 22, 24, 26, 28, 30, 36,
	48, 60, 72, 84, 96, and 120 (frames per second)
	When [SYSTEM MODE] = 50 Hz
	 50p mode: 2, 12, 25, 33, 45, 48, 50, 52, 55, 62,
	75, 100, and 120 (frames per second)
	• 25p mode: 2, 12, 21, 23, 25, 27, 30, 37, 50, 62, 75, 100, and 120 (frames per second)
	75, 100, and 120 (frames per second)
Sensitivity:	When [HIGH SENS.] mode
	F11 (2,000 lx, 3,200 K, 89.9 % reflect, 1080/59.94i)
	F12 (2,000 lx, 3,200 K, 89.9 % reflect, 1080/50i)
Minimum Subject	
	0.2 lx (F2.8, gain 18 dB, [1/2S.],
Digital Zaamı	Manual slow shutter, [HIGH SENS.] mode)
Digital Zoom:	x2/x5/x10, i.Zoom (1.0x to 1.54x, Variable zoom)
Lens Hood:	Hood with lens cover
Lens Hood.	TIOOG WITH IELIS COVE
Memory Card	Recorder
Recording Media*	1: SDHC Memory Card (4 GB to 32 GB),
	SDXC Memory Card (48 GB to 128 GB),
	UHS-I supported
Recording Slot:	Slot x 2
System Format:	59.94 Hz / 50 Hz
Video Recording F	Format:
_	Recording Format: MOV, MP4, AVCHD
Recording Mode:	Please see page 22 for the Video record mode table.
Recording Time:	Please see page 26 for the Recording Time table.
Still Picture Recor	ding Format:
	JPEG (DCF/Exif2.2) supported
	8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9),
	2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9),
	0.2M: 640 x 360 (16:9), 0.3M: 640 x 480 (4:3)
Digital Video	
External Output Vi	deo Signal*²:
External Output Vi	deo Signal**: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu)
	deo Signal*2: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal:
External Output Vi	deo Signal*2: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0
External Output Vi	deo Signal**: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0 n Format:
External Output Vi	deo Signal*2: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0
External Output Vi Recording Video S Video Compressio	deo Signal*2: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0 on Format: MPEG-4 AVC/H.264 High Profile
External Output Vi	deo Signal*2: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0 on Format: MPEG-4 AVC/H.264 High Profile
External Output Vi Recording Video S Video Compressio	deo Signal**: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0 n Format: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)
External Output Vi Recording Video S Video Compressio Digital Audio	deo Signal**: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0 n Format: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)
External Output Vi Recording Video S Video Compressio Digital Audio	deo Signal**: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 8 bit 4:2:0 n Format: MPEG-4 AVC/H,264 High Profile (MOV/MP4/AVCHD) Signal: 48 kHz/16 bit, 2 CH
External Output Vi Recording Video S Video Compression Digital Audio Recording Audio S	deo Signal*2: 8 bit 4:2:2/10 bit 4:2:2 (switchable menu) Signal: 9 bit 4:2:0 9 Format: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD) Signal: 48 kHz/16 bit, 2 CH

Dual Codec

Duai Coucc	
File Format:	MOV, MP4
Video Compress	sion Format:
	MPEG-4 AVC/H.264 High Profile
Audio Compres	sion Format:
	LPCM
Recording Form	nat: When [Dual Codec] = FHD 50 Mbps
	[Main Recording Side]
	Recording mode = MOV/MP4
	 UHD/29.97p/25.00p/23.98p 100 Mbps
	[Sub Recording Side]
	Recording mode = Same as the recording
	mode of the Main Recording Side
	•FHD/29.97p/25.00p/23.98p 50 Mbps
	When [Dual Codec] = FHD 8Mbps
	[Main Recording Side]
	Recording mode = MOV/MP4
	•UHD/29.97p/25.00p/23.98p 100 Mbps
	•FHD/59.94p/50.00p/29.97p/25.00p/23.98p
	200 Mbps
	•FHD/59.94p/50.00p 100 Mbps
	[Sub Recording Side]
	Recording mode = MOV
	•FHD/59.94p/50.00p/29.97p/25.00p/23.98p 8 Mbps

Video Output

SDI OUT:	BNC x1, 0.8 V [p-p], 75 Ω , 3 G/1.5 G HD SDI, SD-SDI supported Output format:
	1080/59.94p LEVEL-A/50.00p LEVEL-A,
	1080/29.97PsF/25.00PsF/24.00PsF/23.98PsF,
	1080/59.94i/50.00i, 720/59.94p/50.00p,
	480/59.94i, 576/50.00i
VIDEO OUT:	BNC x 1, Composite 1.0 V [p-p], 75 Ω
HDMI OUT:	HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link) Output format:
	2160/59.94p/50.00p/29.97p/25.00p/24.00p/23.98p,
	1080/59.94p/50.00p/29.97p/25.00p/24.00p/
	23.98p/59.94i/50.00i,
	720/59.94p/50.00p, 480/59.94p, 576/50.00p

	23.98p/59.94i/50.00i, 720/59.94p/50.00p, 480/59.94p, 576/50.00p
Audio Input	
Built-in Microphon	e: Stereo microphone
XLR IN:	XLR (3-pin) x 2 (INPUT1, INPUT2) Input high impedance, LINE/MIC/MIC+48 V (switchable SW) LINE: 4 dBu/0 dBu (switchable menu) MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu)

Audio Output

SDI OUT:	2 CH (LPCM) switchable gain: 0 dB/-6 dB/-12 dB
HDMI OUT:	2 CH (LPCM)
Audio OUT:	3.5 mm diameter stereo mini jack x 1, Output level: 600 Ω, 316 mV
Headphone:	3.5 mm diameter stereo mini jack x 1
Speaker:	20 mm diameter, round x 1

Other Input/0	Output
CAM REMOTE:	2.5 mm diameter super mini jack x1 (ZOOM, S/S) 3.5 mm diameter mini jack x1 (FOCUS, IRIS)
TC PRESET IN/OU	T: BNC x 1,
	Used as the input and output terminals
	Input: 1.0 V to 4.0 V [p-p], 10 kΩ
	Output: 2.0 V ±0.5 V [p-p], low impedance
USB HOST:	Type A connector, 9-pin, bus power supported In Recording mode; USB 2.0 compatible (5 V, 0.5 A In Playback mode; USB 3.0 compatible (5 V, 0.9 A), used for external media device connection ⁻³
USB DEVICE:	Micro-B connector, 10-pin, USB 3.0, Mass storage function (read only)
DC IN 12 V:	DC 12 V (11.4 V to 12.6 V), EIAJ type 4

Monitor/Viewfinder

LCD Monitor:	4.3-type HD color monitor (Approx. 2760000 dots)
Viewfinder:	0.39-type OLED (organic EL display) (Approx. 2360000 dots, video display area: Approx. 1770000 dots)

Included Accessories

Battery (AG-VBR59), Shoulder strap, Battery charger, Microphone holder, AC adaptor, Screw for microphone holder (12 mm), Power code x 2, Eye cup, Lens hood, INPUT terminal cap, CD-ROM (Operating Instructions)

- *1: An SD Memory Card with a capacity of UHS Speed Class 3 (U3) is required to shoot videos with a bit rate of 100 Mbps or higher. An SDXC Memory Card with a capacity of 64 GB or more and UHS Speed Class 3 (U3) is required to shoot UHD 2160/59.94p/50.00p videos with a bit rate of 150 Mbps or higher.
- *2: HDMI output of UHD/59.94p/50.00p becomes 8 bit 4:2:0. Also, when 10 bit 4:2:2 is selected, recording is not possible with the main unit.
- "3: "External media device with a capacity of 32 GB or below or a capacity above 2 TB cannot be used.

■ Video Recording Mode

When System Frequency is 59.94 Hz

Recording Mode	Recor	Recording Format		
	4K	4096 x 2160/24.00p	100 Mbps	
	UHD	3840 x 2160/59.94p	150 Mbps	
		3840 x 2160/29.97p/23.98p	100 Mbps	
MOV/MP4	FHD	1920 x 1080/ 59.94p/29.97p/23.98p (ALL-I)	200 Mbps	
		1920 x 1080/59.94p	100 Mbps	
		1920 x 1080/ 59.94p/29.97p/23.98p/59.94i	50 Mbps	
AVCHD	PS	1920 x 1080/59.94p	25 Mbps	
	PH	1920 x 1080/59.94i/23.98p	21 Mbps	
	HA	1920 x 1080/59.94i	17 Mbps	
	HE	1440 x 1080/59.94i	5 Mbps	
	PM	1280 x 720/59.94p	8 Mbps	
	SA	720 x 480/59.94i (SIDE CROP/LETTERBOX/ SQUEEZE)	9 Mbps	

When System Frequency is 50.00 Hz

Recording Mode	Recording Format		Bit Rate
	4K	4096 x 2160/24.00p	100 Mbps
	UHD	3840 x 2160/50.00p	150 Mbps
		3840 x 2160/25.00p	100 Mbps
MOV/MP4	FHD	1920 x 1080/ 50.00p/25.00p (ALL-I)	200 Mbps
		1920 x 1080/50.00p	100 Mbps
		1920 x 1080/ 50.00p/25.00p/50.00i	50 Mbps
F AVCHD F	PS	1920 x 1080/50.00p	25 Mbps
	PH	1920 x 1080/50.00i	21 Mbps
	НА	1920 x 1080/50.00i	17 Mbps
	HE	1440 x 1080/50.00i	5 Mbps
	PM	1280 x 720/50.00p	8 Mbps
	SA	720×576/50.00i (SIDE CROP/LETTERBOX/ SQUEEZE)	9 Mbps

AG-UX180

G	ρ	n	ρ	r	a

AG-UX 10	· U
General	
Power:	DC 7.28 V (when the battery is used) DC 12 V (when the AC adaptor is used)
Power Consumption:	19.7 W (when the LCD monitor is used)
	:0 °C to 40 °C (32 °F to 104 °F)
	10 % to 80 % (no condensation)
Weight:	Body: Approx. 2.0 kg (4.41 lb)
	(body only, excluding lens hood, battery, and accessories)
	Shooting: Approx. 2.4 kg (5.29 lb)
	(including lens hood, battery, and eye cup)
Dimensions:	173 mm (W) x 195 mm (H) x 346 mm (D)
	(6-13/16 inches x 7-11/16 inches x 13-5/8 inches)
	(excluding protrusion and eye cup) 173 mm (W) x 195 mm (H) x 392 mm (D)
	(6-13/16 inches x 7-11/16 inches x 15-7/16 inches)
	(including eye cup, excluding protrusion)
Camera Unit	
Pickup Device:	1.0-type (effective size)
	MOS solid state image sensor
Effective Pixels:	8.79 megapixel: UHD/FHD 59.94p/29.97p/23.98p
Lana	9.46 megapixel: 4K 24p
Lens:	Optical image stabilizer lens, optical 20x motorized zoom
	F2.8 to F4.5 (f=8.8 mm to 176 mm)
	35 mm equivalent:
	f=25.4 mm to 508.0 mm:
	UHD/FHD 59.94p/29.97p/23.98p f=24.0 mm to 480.0 mm: 4K24.00p
	Filter Diameter: 67 mm
	ND Filter: 4 Positions (OFF, 1/4, 1/16, 1/64)
	IR Filter: Incorporates the ON/OFF control function
	Shortest Shooting Distance (M.O.D.): Approx. 1.0 m from the front lens
Gain Setting:	L/M/H selector switch
dan coung.	Standard mode: 0 dB to 24 dB
	(Adjustable in 1 dB steps)
	(Automatic setting can be assigned to L/M/H)
	Extended ON: -3 dB to 24 dB (Adjustable in 1 dB steps)
	(Automatic setting can be assigned to L/M/H)
	30 dB and 36 dB switched
O-1 T	(when assigning [S. GAIN] to the USER button)
Color Temperature	ATW, ATW LOCK, Ach, Bch,
	preset 3200 K/preset 5600 K/VAR
	(2000 K to 15000 K)
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
	60i/60p mode: 1/60 sec., 1/100 sec., 1/120 sec., 1/120 sec., 1/250 sec., 1/250 sec., 1/500 sec.
	1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1000 sec., 1/2000 sec
	1/3000 Sec., 1/4000 Sec., 1/8000 Sec.
	30p mode: 1/30 sec., 1/50 sec., 1/60 sec.,
	1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec.,
	1/1500 sec., 1/2000 sec., 1/3000 sec., 1/1000 sec., 1/2000 sec., 1/2000 sec., 1/2000 sec.,
	1/4000 sec., 1/8000 sec.
	24p mode: 1/24 sec., 1/48 sec., 1/50 sec.,
	1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec.,
	1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec. 1/1500 sec. 1/2000 sec.
	1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	When [SYSTEM MODE] = 50.00 Hz
	50i/50p mode: 1/50 sec., 1/60 sec., 1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec.
	1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec.
	1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.
	25p mode: 1/25 sec., 1/50 sec., 1/60 sec.,
	1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec., 1/260 sec., 1/500 sec., 1/750 sec., 1/1000 sec.
	1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec.,
	1/4000 sec., 1/8000 sec.

Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
(Slow Shutter)	60i/60p mode: 1/2 sec., 1/4 sec., 1/8 sec.,
	1/15 sec., 1/30 sec.,
	30p mode: 1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec.
	24p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
	When [SYSTEM MODE] = 50.00 Hz
	50i/50p mode: 1/2 sec., 1/3 sec., 1/6 sec.,
	1/12 sec., 1/25 sec.
Ob	25p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
Shutter Speed:	When [SYSTEM MODE] = 59.94 Hz
(Synchro Scan)	59.94i/59.94p mode: 1/60.0 sec. to 1/249.7 sec. 29.97p mode: 1/30.0 sec. to 1/249.7 sec.
	23.98p mode: 1/24.0 sec. to 1/249.6 sec.
	24.00p mode: 1/24.0 sec. to 1/249.9 sec.
	When [SYSTEM MODE] = 50.00 Hz
	50i/50p mode: 1/50.0 sec. to 1/250.0 sec.
	25p mode: 1/25.0 sec. to 1/250.0 sec.
VFR Recording Fra	
	When [SYSTEM MODE] = 59.94 Hz
	30p mode: 2, 15, 26, 28, 30, 32, 34, 45, 60 (fps)
	24p mode: 2, 12, 20, 22, 24, 26, 28, 36, 48, 60 (fps)
	SYSTEM MODE = 50.00, Hz
	25p mode: 2, 12, 21, 23, 25, 27, 30, 37, 50 (fps)
Super-Slow Motio	n Recording:
	When [SYSTEM MODE] = 59.94 Hz
	Shooting frame rate FHD 120 fps,
	Slow motion effect 1/4 speed (when 30p mode),
	1/5 speed (when 24p mode)
	When [SYSTEM MODE] = 50.00 Hz
	Shooting frame rate FHD 100fps,
Sensitivity:	Slow motion effect 1/4 speed (when 25p mode) When [HIGH SENS.] mode
Sensitivity.	F11 (2000 Ix, 3200 K, 89.9 % reflect, 1080/59.94i)
	F12 (2000 IX, 3200 K, 89.9 % reflect, 1080/50i)
Minimum Subject	
www.mann.cabject	0.2 lx (F2.8, gain 18 dB, Manual slow shutter 1/2S,
	When [HIGH SENS.] mode)
Digital Zoom:	2x/5x/10x, i.Zoom (max. 30x)
Digital ZUUIII.	
Lens Hood:	
Lens Hood:	Hood with lens cover
	Hood with lens cover
Lens Hood: Memory Card	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB),
Lens Hood: Memory Card	Hood with lens cover
Lens Hood: Memory Card	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB),
Lens Hood: Memory Card	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB),
Lens Hood: Memory Card Recording Media:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported
Lens Hood: Memory Card Recording Media:* Recording Slot:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording:
Lens Hood: Memory Card Recording Media: Recording Slot: System Format:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode:	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table.
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Mode: Recording Time: 2 Slot Functions:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Pleasy see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Pleasy see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Mode: Recording Time: 2 Slot Functions:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Pleasy see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding:
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Record	Hood with lens cover Recorder "SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Record	Hood with lens cover Recorder "SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background*, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9),
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Record	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background**2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback:
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recording Time: Still Picture Recording Time:	Hood with lens cover Recorder "SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background*, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9),
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Record Digital Video	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background**, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recording Time: Still Picture Recording Time:	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Please see page 26 for the Recording Time table. Please (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recording Still Picture Recording Time: Digital Video	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz cording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recon Still Picture Recon Digital Video Video Signal for E: Recording Video S	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2*3 Signal: 8bit 4:2:0
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Time: Recording Time: Still Picture Record Still Picture Record Digital Video Video Signal for Ex	Hood with lens cover Recorder "SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Please see page 26 for the Recording Time table. Please (DCF/Exif2.2) ding: Motion Picture Playback: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2°3 Signal: 8bit 4:2:0 In Format:
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recon Still Picture Recon Digital Video Video Signal for E: Recording Video S	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2*3 Signal: 8bit 4:2:0
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recon Still Picture Recon Digital Video Video Signal for E: Recording Video S	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2** Signal: 8bit 4:2:0 m Format: MPEG-4 AVC/H.264 High Profile
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recording Time: Video Signal for E: Recording Video S Video Compression	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Please see page 26 for the Recording Time table. Please, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2*3 Signal: 8bit 4:2:0 nn Format: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Mode: Recording Mode: Recording Flore Recording Flore Still Picture Recon Digital Video Video Signal for E: Recording Video S Video Compressio Digital Audio Recording Audio S	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Please see page 26 for the Recording Time table. Please See page 26 for the Recording Time table. Please See page 26 for the Recording Time table. Please See page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2° Signal: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Time: 2 Slot Functions: Still Picture Recon Still Picture Recon Digital Video Video Signal for E: Recording Video S Video Compressio	Hood with lens cover Recorder **SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 24 for the Recording Format table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9), xternal Output: 8bit 4:2:2* Signal: 8bit 4:2:0 in Format: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)
Lens Hood: Memory Card Recording Media: Recording Slot: System Format: Motion Picture Re Recording Mode: Recording Mode: Recording Mode: Recording Mode: Still Picture Recording Still Picture Recording Video Signal for E: Recording Video S Video Compression Digital Audio Recording Audio S	Hood with lens cover Recorder 1 SDHC Memory Card (4 GB to 32 GB), SDXC Memory Card (48 GB to 128 GB), UHS-I supported Slot x 2 59.94 Hz/50 Hz coording: Recording Format: MOV, MP4, AVCHD Please see page 24 for the Recording Format table. Please see page 26 for the Recording Time table. Please see page 26 for the Recording Time table. Please See page 26 for the Recording Time table. Please See page 26 for the Recording Time table. Please See page 26 for the Recording Time table. Relay, Simultaneous, Background*2, Dual codec ding Mode: JPEG (DCF/Exif2.2) ding: Motion Picture Playback: 8.8M: 4096 x 2160 (17:9), 8.3M: 3840 x 2160 (16:9), 2.1M: 1920 x 1080 (16:9), 0.9M: 1280 x 720 (16:9) xternal Output: 8bit 4:2:2° Signal: MPEG-4 AVC/H.264 High Profile (MOV/MP4/AVCHD)

Dual Codec

Duai Oouco		
Recording Method:	: MOV, MP4	
Video Compression	n Format:	
•	MPEG-4 AVC/H.264 High	gh Profile
Audio Signal Format	t:LPCM	
Recording Format:	Please see page 24 for	
	the Dual Codec Record	ing table.
Recording Time:	FHD 50Mbps	FHD 8Mbps
(32 GB)	Approx. 1 hour 20 min.	Approx. 8 hour 30 min.
(64 GB)	Approx. 2 hour 40 min.	Approx. 17 hour 10 min.
(128 GB)	Approx. 5 hour 20 min.	Approx. 35 hours
Video Output		
SDI OUT:	BNC x 1, 0.8 V [p-p], 75	i Ω, 3 G/1.5 G,
	HD SDI, SD SDI suppor	ted
	Output format:	
	1080/59.94p LEVEL-A/	50.00p LEVEL-A,
	1080/29.97PsF/25.00Ps	sF/24.00PsF/23.98PsF.

480/59.94i, 576/50.00i

AV connector x 1

Output format:

59.94i/50.00i,

1080/59.94i/50.00i, 720/59.94p/50.00p,

Type A connector x 1, VIERA Link not supported

2160/59.94p/50.00p/29.97p/25.00p/24.00p/23.98p, 1080/59.94p/50.00p/29.97p/25.00p/24.00p/23.98p/

720/59.94p/50.00p, 480/59.94p, 576/50.00p

Audio Input

VIDEO OUT:

HDMI:

Built-in Microph	one: Stereo microphone
XLR Input:	XLR (3-pin) x 2 (INPUT1, INPUT2)
	Input high impedance,
	LINE/MIC/MIC+48V (switchable SW)
	LINE: +4 dBu/0 dBu (switchable menu)
	MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu)

Audio Output

SDI:	2 ch (LPCM) switchable gain: 0 dB/-6 dB/-12 dB
HDMI:	2 ch (LPCM)
AUDIO OUT:	AV connector x 1, Output level: 600 Ω, 251 mV
Headphone:	3.5 mm diameter stereo mini jack x 1
Speaker:	20 mm diameter, round x 1

Other Input/Output

Camera Remote:	2.5 mm diameter super mini jack x1 (ZOOM, S/S) 3.5 mm diameter mini jack x1 (FOCUS, IRIS)
TC PRESET IN/OUT:	BNC x 1, Used as the input and output terminals Input: 1.0 V to 4.0 V [p-p] 10 K Ω
	Output: 2.0 V ± 0.5 V [p-p] low impedance
USB HOST:	Type A connector, 9-pin, bus power supported
	In Recording mode; USB 2.0 compatible (5 V, 0.5 A) In Playback mode; USB 3.0 compatible (5 V, 0.9 A), used for external media device connection*4
USB 3.0 DEVICE:	Micro-B connector,
	10-pin, Mass storage function (read only)
DC IN 12V:	DC 12V (11.4V to 12.6V) EIAJ Type4

Monitor/Viewfinder

LCD Monitor:	 3.5 type LCD color monitor, Approx. 1,150,000 dots
Viewfinder:	0.39 type OLED (organic EL display)
	Approx. 2,360,000 dots,
	video display area: approx. 1,770,000 dots

Included Accessories

Battery (AG-VBR59), Battery charger, AC adaptor, Microphone holder kit, AC cable, Eye cup, Lens hood, INPUT terminal cap, Operating instructions

- *1: An SD Memory Card with a capacity of UHS Speed Class 3 (U3) is required to shoot videos with a bit rate of 100 Mbps or higher. An SDXC Memory Card with a capacity of 64 GB or more and UHS Speed Class 3 (U3) is required to shoot UHD 2160/59.94p/50.00p videos with a bit rate of 150 Mbps or higher.
- *2: It supports in record mode less than 50 Mbps.
- *3: Output of UHD/59.94p/50.00p becomes 8 bit 4:2:0.
- *4: External media devices with a capacity of below 32 GB or a capacity above 2 TB cannot be used.

Recording Format

When System Frequency is 59.94 Hz

Recording Mode	Recor	Bit Rate	
	4K	4096 x 2160/24.00p	100 Mbps
	UHD	3840 x 2160/59.94p	150 Mbps
	UND	3840 x 2160/29.97p/23.98p	100 Mbps
MOV/MP4		1920 x 1080/ 59.94p/29.97p/23.98p (ALL-I)	200 Mbps
	FHD	1920 x 1080/59.94p	100 Mbps
		1920 x 1080/ 59.94p/29.97p/23.98p/59.94i	50 Mbps
	PS	1920 x 1080/59.94p	25 Mbps
	PH	1920 x 1080/59.94i/23.98p	21 Mbps
	НА	1920 x 1080/59.94i	17 Mbps
AVCHD	HE	1440 x 1080/59.94i	5 Mbps
	PM	1280 x 720/59.94p	8 Mbps
	SA	720 x 480/59.94i (SIDE CROP/SQUEEZE)	9 Mbps

When System Frequency is 50.00 Hz

Recording Mode	Recording Format		Bit Rate
	4K	4096 x 2160/24.00p	100 Mbps
	UHD	3840 x 2160/50.00p	150 Mbps
	טחט	3840 x 2160/25.00p	100 Mbps
MOV/MP4		1920 x 1080/ 50.00p/25.00p (ALL-I)	200 Mbps
	FHD	1920 x 1080/50.00p	100 Mbps
		1920 x 1080/ 50.00p/25.00p/50.00i	50 Mbps
	PS	1920 x 1080/50.00p	25 Mbps
	PH	1920 x 1080/50.00i	21 Mbps
	НА	1920 x 1080/50.00i	17 Mbps
AVCHD	HE	1440 x 1080/50.00i	5 Mbps
	PM	1280 x 720/50.00p	8 Mbps
	SA	720×576/50.00i (SIDE CROP/SQUEEZE)	9 Mbps

Dual Codec Recording

When FHD 50 Mbps mode

Recording Mode		Recording Format
Main-Recording	MOV/MP4	UHD 29.97p/25p/23.98p 100 Mbps
Sub-Recording	MOV/MP4*	FHD 29.97p/25p/23.98p 50Mbps

^{*} Same recording mode selected in the main-recording side.

When FHD 8 Mbps mode

Recording Mode		Recording Format
Main-Recording	MOV/MP4	UHD 29.97p/25p/23.98p 100 Mbps FHD 59.94p/50p/29.97p/25p/23.98p 200 Mbps FHD 59.94p/50p 100 Mbps
Sub-Recording	MOV	FHD 59.94p/50p/29.97p/25p/23.98p 8 Mbps

AG-UX90

C	0	n	0	r	9

Power:	DC 7.28 V (when the battery is used)	Shutter Speed:	[59.94 Hz model] 60i/60p mode: 1/2 sec., 1/4 sec., 1/8 sec.,
	DC 12 V (when the AC adaptor is used)	(Slow Shutter)	1/15 sec., 1/30 sec.
	n: 12.2 W (when the LCD monitor is used)		30p mode: 1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec
	ure: 0 °C to 40 °C (32 °F to 104 °F)		24p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec
Derating Humidi Neight:	ty: 10 % to 80 % (no condensation)		[50.00 Hz model]
weight.	Body: Approx. 1.9 kg (4.19 lb) (body only, excluding lens hood, battery,		50i/50p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec., 1/25 sec.
	and accessories)		25p mode: 1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec
	Shooting: Approx. 2.3 kg (5.07 lb)	VFR Recording Fra	· ·
	(including lens hood, battery, and eye cup)	VI II I I COOI GIII G I I I	[59.94 Hz model]
Dimensions:	169 mm (W) x 195 mm (H) x 340 mm (D)		30p mode: 2, 15, 26, 28, 30, 32, 34, 45, 60 (fps)
	(6-21/32 inches x 7-11/16 inches x 13-3/8 inches)		24p mode: 2, 12, 20, 22, 24, 26, 28, 36, 48, 60 (fp
	(excluding protrusion and eye cup) 169 mm (W) x 195 mm (H) x 382 mm(D)		[50.00 Hz model]
	(6-21/32 inches x 7-11/16 inches x 15-1/32 inches)	Minimum Outlinet	25p mode: 2, 12, 21, 23, 25, 27, 30, 37, 50 (fps
	(including eye cup, excluding protrusion)	Minimum Subject	[59.94 Hz model]
			1.3 lx (F2.8, Super Gain 36dB,
Camera Unit			Manual slow shutter 1/30s)
Pickup Device:	1.0-type MOS solid state image sensor		[50.00 Hz model]
Effective Pixels:	[59.94 Hz model]		1.1 lx (F2.8, Super Gain 36dB,
	17.78 megapixel: FHD 59.94p/29.97p/23.98p		Manual slow shutter 1/25s)
	8.59 megapixel: UHD 29.97p/23.98p [50.00 Hz model]	Digital Zoom:	2x/5x/10x,
	17.78 megapixel: FHD 50.00p/25.00p	Land Hand	i.Zoom: max. 25x (optical zoom + digital zoom)
	8.59 megapixel: UHD 25.00p	Lens Hood:	Hood with lens cover
_ens:	Optical image stabilizer lens,	Memory Card	Recorder
	optical 15x motorized zoom		SDHC Memory Card (4 GB to 32 GB),
	F2.8 to F4.5 (f=8.8 mm to 132 mm)	riccording modia.	SDXC Memory Card (48 GB to 128 GB)
	35 mm equivalent:		UHS-I supported
	[59.94 Hz model] f=24.5 mm to 367.5 mm: FHD 59.94p/29.97p/23.98p	Recording Slot:	Slot x 2
	f=35.4 mm to 531.0 mm: UHD 29.97p/23.98p	System Format:	[59.94 Hz model]
	[50.00 Hz model]		59.94 Hz
	f=24.5 mm to 367.5 mm: FHD 50.00p/25.00p		[50.00 Hz model]
	f=35.4 mm to 531.0 mm: UHD 25.00p	Danas dia a Farmant	50 Hz
	Filter Diameter: 67 mm	Recording Format	: MOV, MP4, AVCHD Please see page 26 for the Recording Format tab
	ND Filter: 4 Positions (OFF, 1/4, 1/16, 1/64) Shortest Shooting Distance (M.O.D.):	Recording Time:	Please see page 26 for the Recording Time table
	Approx. 1.0 m from the front lens	2 Slot Functions:	Relay, Simultaneous
Gain Setting:	L/M/H selector switch	Still Picture Recor	
aan ooung.	Standard mode: 0 dB to 30 dB	Other recon	JPEG (DCF/Exif2.2)
	(Adjustable in 1 dB steps)	Still Picture Recor	
	(Automatic setting can be assigned to L/M/H)		Motion Picture Playback:
	Extended ON: -3 dB to 30 dB		8.3 M: 3840 x 2160 (16:9),
	(Adjustable in 1 dB steps) (Automatic setting can be assigned to L/M/H)		2.1 M: 1920 x 1080 (16:9),
	33 dB and 36 dB switched		0.9 M: 1280 x 720 (16:9)
	(when assigning [S.GAIN] to the USER button)	Digital Video	
Color Temperatu		Video Signal for Ex	xternal Output:
	ATW, ATW LOCK, Ach, Bch,	video oignarioi E	8 bit 4:2:2
	preset 3200 K/preset 5600 K/VAR	Recording Video S	Signal:
No	(2000 K to 15000 K)		8 bit 4:2:0
Shutter Speed:	[59.94 Hz model] 60i/60p mode: 1/60 sec., 1/100 sec., 1/120 sec.,	Video Compressio	
	1/180 sec., 1/250 sec., 1/350 sec., 1/500 sec.,		MPEG-4 AVC/H.264 High Profile
	1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec.,		(MOV/MP4/AVCHD)
	1/3000 sec., 1/4000 sec., 1/8000 sec.	Digital Audio	
	30p mode: 1/30 sec., 1/50 sec., 1/60 sec.,	Sampling Frequen	0.00
	1/100 sec., 1/120 sec., 1/180 sec., 1/250 sec.,	Sampling Frequen	48 kHz/16 bit 2 ch
	1/350 sec., 1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec., 1/2000 sec., 1/3000 sec.,	Audio Signal Form	
	1/4000 sec., 1/8000 sec., 1/3000 sec.,		LPCM (MOV/MP4), Dolby Audio (AVCHD)
	24p mode: 1/24 sec., 1/48 sec., 1/50 sec.,	Headroom:	12 dB
	1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec.,		
	1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec.,	Video Output	
	1/1000 sec., 1/1500 sec., 1/2000 sec.,	VIDEO OUT:	VIDEO OUT connector x 1
	1/3000 sec., 1/4000 sec., 1/8000 sec.	HDMI:	Type A connector x 1, VIERA Link not supporte
	[50.00 Hz model] 50i/50p mode: 1/50 sec., 1/60 sec., 1/100 sec.,		[59.94 Hz model]
	1/125 sec., 1/180 sec., 1/250 sec., 1/350 sec.,		Output format: 2160/29.97p/23.98p, 1080/59.94p/29.97p/23.98p/59.94i,
	1/500 sec., 1/750 sec., 1/1000 sec., 1/1500 sec.,		720/59.94p, 480/59.94p
	1/300 3ec., 1/130 3ec., 1/1000 3ec., 1/1300 3ec.,		5, 55.0 TP, TOO, 55.0 TP
	1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec.		[50.00 Hz model]
	1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec. 25p mode: 1/25 sec., 1/50 sec., 1/60 sec.,		[50.00 Hz model] Output format: 2160/25.00p, 1080/50p/25p/50i
	1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec. 25p mode: 1/25 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/125 sec., 1/180 sec., 1/250 sec.,		
	1/2000 sec., 1/3000 sec., 1/4000 sec., 1/8000 sec. 25p mode: 1/25 sec., 1/50 sec., 1/60 sec.,		Output format: 2160/25.00p, 1080/50p/25p/50

Audio Input

Built-in Microphone:		
5	Stereo	microphone

XLR Input: XLR (3-pin) x 2 (INPUT1, INPUT2) high impedance, LINE/MIC/MIC+48V (switchable SW) LINE: +4 dBu/0 dBu (switchable menu) MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu)

Audio Output

HDMI:	2 ch (LPCM)
AUDIO OUT:	AUDIO OUT x 2
Headphone:	3.5 mm diameter stereo mini jack x 1
Speaker:	20 mm diameter, round x 1

Other law 40 decided

Other input/O	utput
Camera Remote:	2.5 mm diameter super mini jack x1 (ZOOM, S/S) 3.5 mm diameter mini jack x1 (FOCUS, IRIS)
USB HOST:	Type A connector, 9-pin, bus power supported In Recording mode; USB 2.0 compatible (5 V, 0.5 A) In Playback mode; USB 3.0 compatible (5 V, 0.9 A), used for external media device connection ²
USB 3.0 DEVICE:	Micro-B connector, 10-pin, Mass storage function (read only)
DC IN 12V:	DC 12 V (11.4 V to 12.6 V) EIAJ Type4

Monitor/Viev	wfinder	
LCD Monitor:	3.5-type LCD monitor, Approx. 1,150,000 dots	
Viewfinder:	0.24-type EVF, Approx. 1,560,000 dots equivalent	

Included Accessories

Battery (AG-VBR59), Battery charger, AC adaptor, Microphone holder, Screw for microphone holder (12 mm), AC cable, Eye cup, Lens hood, INPUT terminal cap, Operating instructions

Recording Format

59.94 Hz Model

Recording Mode	Recor	ding Format	Bit Rate
	UHD	3840 x 2160/29.97p/23.98p	100 Mbps
MOV/MP4	FHD	1920 x 1080/59.94p/29.97p/ 23.98p/59.94i	50 Mbps
	PS	1920 x 1080/59.94p	25 Mbps
	PH	1920 x 1080/59.94i/23.98p	21 Mbps
	HA	1920 x 1080/59.94i	17 Mbps
AVCHD	HE	1440 x 1080/59.94i	5 Mbps
	PM	1280 x 720/59.94p	8 Mbps
	SA	720 x 480/59.94i (SIDE CROP/SQUEEZE)	9 Mbps

50.00 Hz Model

Recording Mode	Recor	ding Format	Bit Rate
	UHD	3840 x 2160/25.00p	100 Mbps
MOV/MP4	FHD	1920 x 1080/50.00p/25.00p/ 50.00i	50 Mbps
	PS	1920 x 1080/50.00p	25 Mbps
	PH	1920 x 1080/50.00i	21 Mbps
	HA	1920 x 1080/50.00i	17 Mbps
AVCHD	HE	1440 x 1080/50.00i	5 Mbps
	PM	1280 x 720/50.00p	8 Mbps
	SA	720 x 576/50.00i (SIDE CROP/SQUEEZE)	9 Mbps

Recording Time of AG-DVX200/UX180/UX90

Recording	Format	Bit Rate	32 GB	64 GB	128 GB
	4K	100 Mbps*	Approx. 40 min.	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
	UHD	150 Mbps*	_	Approx. 55 min.	Approx. 1 hour 50 min.
MOV/MP4	OND	100 Mbps	Approx. 40 min.	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
IVIOV/IVIP4		200 Mbps*	Approx. 20 min.	Approx. 40 min.	Approx. 1 hour 20 min.
	FHD	100 Mbps*	Approx. 40 min.	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
		50 Mbps	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.
	PS	25 Mbps	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.	Approx. 11 hours
	PH	21 Mbps	Approx. 3 hours	Approx. 6 hours	Approx. 12 hours 30 min.
AVCHD	HA	17 Mbps	Approx. 4 hours 10 min.	Approx. 8 hours 30 min.	Approx. 17 hours
AVCHD	HE	5 Mbps	Approx. 13 hours 40 min.	Approx. 27 hours 30 min.	Approx. 56 hours
	PM	8 Mbps	Approx. 8 hours 30 min.	Approx. 17 hours 10 min.	Approx. 35 hours
	SA	9 Mbps	Approx. 8 hours	Approx. 16 hours 30 min.	Approx. 34 hours

^{*} Not support AG-UX90.

^{*1:} An SD Memory Card with a capacity of UHS Speed Class 3 (U3) is required to shoot videos with a bit rate of 100 Mbps or higher. *2: External media devices with a capacity of below 32 GB or a capacity above 2 TB cannot be used.

AG-AC30

General Specifications

Power Supply:	DC 7.2 V (Battery) / DC12 V (AC Adaptor)
Power Consumption:	: 11.7 W (Recording) / 27.4 W (Charging)
Weight:	Approx. 1500 g (3.31 lb) without battery and SD Memory Cards
Dimensions:	170 mm (W) x 170 mm (H) x 335 mm (D) (6.69 inches x 6.69 inches x 13.2 inches)

F Value:	F1.8 (WIDE)/F3.6 (TELE)
Zoom:	Optical Zoom: 20x
	Intelligent Zoom OFF: 20x, ON: 40x
Digital Zoom:	2x / 5x / 10x
Focal Length:	4.08 mm to 81.6 mm
35 mm Film Cam	era Equivalent: (Motion Image/Still Image) 29.5 mm to 612 mm [16:9]
Filter Diameter:	49 mm

Filter Diameter:	49 mm
Camera Section	on
Image Sensor:	1/3.1-type MOS Sensor
	Effective Pixels: 6.03 megapixels [16:9]
Standard Illumination	n: 1400 lx
Minimum Illuminat	ion:
[59.94 Hz model]	1.4 lx (Super Gain 36 dB, Shutter 1/30)
[50 Hz model]	1.2 lx (Super Gain 36 dB, Shutter 1/25)
White Balance:	Auto/3200 K/5600 K/VAR (2000 K to 15000 K)/ Ach Fixed / Bch Fixed

Snutter Speed:	
[59.94 Hz model]	60p/60i: 1/8 to 1/8000
	23.98p: 1/6 to 1/8000

Super Slow: 1/120 to 1/8000 [50 Hz model] 50p/50i: 1/6 to 1/8000 Super Slow: 1/100 to 1/8000

Super Slow Recording:

[59.94 Hz model] Shooting Frame Rate: FHD 120 fps,

Slow Motion Effect: 1/2 speed, 1/4 speed, 1/5 speed [50 Hz model] Shooting Frame Rate: FHD 100 fps, Slow Motion Effect: 1/2 speed, 1/4 speed

Recording Sec	ction
Recording Media:	SDHC/SDXC Memory Card
Recording Format:	MOV/MP4/AVCHD: AVCHD Progressive
Video Compressio	n: MPEG-4 AVC/H.264
Audio Compression:	MOV: LPCM (2 ch)/MP4: LPCM (2 ch)/
	AVCHD: Dolby Digital (2 ch)
Thumbnail Display	: 20 thumbnails/page, 9 thumbnails/page,
	1 thumbnail/page
Microphone:	Stereo Microphone
Speaker:	Dynamic Type

Recording Mode of 59.94 Hz Model

Recording	Mode	Recording Video Format	Bit Rate
MOV/MP4	FHD	1920 x 1080/59.94p/29.97p/23.98p/59.94i	50 Mbps
	PS	1920 x 1080/59.94p	25 Mbps
	PH	1920 x 1080/59.94i/23.98p	21 Mbps
AVCHD	HA	1920 x 1080/59.94i	17 Mbps
AVCHD	HE	1440 x 1080/59.94i	5 Mbps
	PM	1280 x 720/59.94p	8 Mbps
	SA	720 x 480/59.94i (SIDE CROP/SQUEEZE)	9 Mbps

Recording Time

	Still	Image \$	Section
--	-------	----------	---------

Recording Format: JPEG (DCF/Exif2.2)
Recording Image Size:
 Recording Mode
[16:9] 2.1 megapixels (1920 x 1080),
0.2 megapixels (640 x 360)
[4:3] 0.3 megapixels (640 x 480)
Playback Mode
[16:9] 2.1 megapixels (1920 x 1080),
0.9 megapixels (1280 x 720)

Interface

NOUT	
AV OUT:	Yes
HDMI OUT:	Type A
XLR IN:	XLR (3-pin) x 2, Line: 0 dBu/+4 dBu,
	Mic: -40 dBu/-50 dBu/-60 dBu
Headphone:	3.5 mm stereo mini
USB:	Micro-B: USB 2.0 Hi-Speed,
	Mass Storage Function (read only)
	Type A: USB 2.0 Hi-Speed, for External Media
	Device Connection*, Bus Power Supply
Camera Remote:	2.5 mm super mini jack x 1 (ZOOM S/S)
	3.5 mm mini jack x 1 (FOCUS/IRIS)

Monitor		
Monitor:	3.0-inch (3.0-type) Wide LCD monitor (Approx. 460 K dots)	
Viewfinder:	0.24-inch (0.24-type) Wide EVF (Approx. 1555 K dots equivalent)	

LED Video Light

Average Illumination:

Average muriman)II.			
	Approx. 300 lx (1.0 m)			
Irradiation Angle:	Approx. 30°			
Color Temperature	: Approx. 5000 K			
Average Illumination with Diffusion Filter:				
	Approx. 70 lx (1.0 m)			
Color Temperature with Color Conversion Filter:				
	Approx. 3000 K			

Standard Accessory

AC Adaptor, AC Cable, Rechargeable Battery Pack (2900 mAh), AV Cable, Microphone Holder, Microphone Holder Screws (x2), Input Terminal Cap (x2), Eye Cup, Lens Cap, LED Light Filter (Diffusion Filter / Color Conversion Filter)

Recording Mode of 50 Hz Model

Recording Mode		Recording Video Format	Bit Rate
MOV/MP4 FHD		1920 x 1080/50.00p/25.00p/50.00i	50 Mbps
	PS	1920 x 1080/50.00p	25 Mbps
	PH	1920 x 1080/50.00i	21 Mbps
AVCHD	HA	1920 x 1080/50.00i	17 Mbps
AVCHD	HE	1440 x 1080/50.00i	5 Mbps
	PM	1280 x 720/50.00p	8 Mbps
SA		720 x 576/50.00i (SIDE CROP/SQUEEZE)	9 Mbps

Recording Mode		Bit Rate	32 GB Memory Card*	64 GB Memory Card*	128 GB Memory Card*
MOV/MP4	FHD	50 Mbps	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.
	PS	25 Mbps	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.	Approx. 11 hours
	PH	21 Mbps	Approx. 3 hours	Approx. 6 hours	Approx. 12 hours 30 min.
AVOUD	HA	17 Mbps	Approx. 4 hours 10 min.	Approx. 8 hours 30 min.	Approx. 17 hours
AVCHD	AVCHD HE		Approx. 13 hours 40 min.	Approx. 27 hours 30 min.	Approx. 56 hours
	PM	8 Mbps	Approx. 8 hours 30 min.	Approx. 17 hours 10 min.	Approx. 35 hours
	SA	9 Mbps	Approx. 8 hours	Approx. 16 hours 30 min.	Approx. 34 hours

[•]These times are approximations. *A Class 4 or higher SDXC/SDHC Memory Card is required for AVCHD recording. A Class 10 or higher, or UHS Speed Class 1 or higher SDXC/SDHC Memory Card is required for MP4/MOV 50Mbps recording. A UHS Speed Class 3 or higher SDXC/SDHC Memory Card is required for Super Slow recording. (The use of a Panasonic SDXC/SDHC Memory Card is recommended.)

^{*} External media device with a capacity of 32 GB or less, or more than 2 TB, cannot be used.



AG-VBR118G Battery Pack (11,800 mAh)



AG-VBR89G Battery Pack (8,850 mAh)



AG-VBR59 Battery Pack (5,900 mAh)



AG-BRD50 Battery Charger



VW-VBD58 Battery Pack (5,800 mAh)



AG-B23 Battery Charger



AG-MC200G XLR Microphone



VW-LED1 LED Video Light



Wireless Module*

* Not available in some areas.



AJ-WM30
Wireless Module*
* Not available in some areas.



Connection Confirmed Wireless Module* (including third-party products)



* For details please visit Panasonic website (https://pro-av.panasonic. net/en/sales_o/p2/server/wireless_module.html)







SDXC/SDHC/SD Memory Card

Optional Accessories		AG-DVX200	AG-UX180	AG-UX90	AG-AC30
Battery Pack (11,800 mAh)	AG-VBR118G	✓	✓	✓	
Battery Pack (8,850 mAh)	AG-VBR89G	✓	✓	✓	✓
Battery Pack (5,900 mAh)	AG-VBR59	✓	✓	✓	✓
Battery Charger	AG-BRD50	✓	✓	✓	✓
Battery Pack (5,800 mAh)	VW-VBD58	✓	✓	✓	✓
Battery Charger	AG-B23	✓	✓	✓	✓
XLR Microphone	AG-MC200G	✓	✓	✓	✓
LED Video Light	VW-LED1	✓	✓	✓	
Wireless Module*1	AJ-WM50	✓	✓	✓	
Wireless Module*1	AJ-WM30	✓	✓	✓	
SDXC/SDHC/SD Memory Card*2		✓	✓	✓	✓

^{✓:} It is possible to use it. *1: Not available in some areas. *2: UHS Speed Class 3 (U3) SD Memory Card is necessary for video recording of 100 Mbps or more. UHS Speed Class 3 (U3) SDXC Memory Card of 64 GB or more is necessary for video recording of UHD 2160/59.94p/50.00p 150 M.















AG-UMR20

Memory Card Portable Recorder

"POVCAM" with a Compact, Lightweight, Free Style Shooting and IP Networking Capability

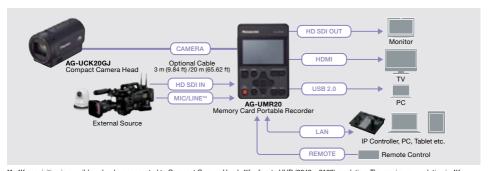
- · Light weight, handy size. Improved recorder operation with a touch-panel monitor and large buttons.
- · Capable of battery drive and DC12V power supply. (Equipped with an AC adaptor.)
- · LAN terminal for IP streaming and IP control. Recorded image files can be transferred to an FTP server.
- High quality FHD/4K (UHD)*1 image acquisition are supported.
- · Equipped with double SD Memory Card Slots, enabling Relay Recording with two memory cards to extend the recording time (SDXC/SDHC Memory Card supported).*2
- · Two remote terminals provide fingertip control of Rec Start/Stop. Zoom. focus and iris.
- 3G-SDI input/output, HDMI output and a USB 2.0 connector.
- · Time stamp and repeat playback.
- Waveform Monitor (WFM) and Vector Scope display (LCD only).

AG-UCK20GJ

Compact Camera Head (Special Option for the AG-UMR20)

Angle Free, High Quality Shooting with 29.5 mm Wide-Angle Optical 20x Zoom Lens

- Compact, lightweight design and remote operation*3 allow the camera to be installed in places and angles where it previously couldn't, for free-style operation.
- Equipped with a 29.5 mm wide-angle 20x optical zoom lens.
- 16-axis independent color correction function allows the fine color adjustment required in image production applications.
- · Five-axis hybrid (optical and electronic) image stabilizer (HD mode only).
- · The optical ND filter can be manually switched.
- · Equipped with an Infrared (IR) Shooting mode.
- · Equipped with a built-in microphone for recording both images and sounds.
- · Scan Reverse mode (horizontal/vertical inversion) is equipped for shooting with a ceiling-mount.



*1: 4K acquisition is possible only when connected to Compact Camera Head. 4K refers to UHD (3840 x 2160) resolution. The maximum resolution in 4K shooting mode via HDMI/SDI output is FHD (1920 x 1080) 59.94i/50i. *2: Regardless of the memory card and recording mode, continuous recording that exceeds 10 hours is stopped and automatically restarted, causing the recording to stop for several seconds. *3: Requires the Camera Head Option Cable AG-C20003G/C20020G. *4: Audio input can not be used when a compact camera head is connected.

Surgical Image Recording System (medical specifications)







AVCHD TM HOMI WO DOLBY AUDIO

AG-MDR25

Memory Card Portable Recorder

AG-MDC20GJ

Compact Camera Head (Special Option for the AG-MDR25)

Compact Portable Recorder System Suitable for Recording High-Quality Medical Video

- · Compact, lightweight, free-style shooting inherited from the 1st generation POVCAM.
- · Excellent network operation through IP remote and IP streaming.
- · High-quality, high-resolution image production for medical recording.

Medical Functions

(add with full functions of black model AG-UMR20/UCK20GJ)

- · Recorder controls are covered with a membrane sheet for easy cleaning with an ethanol disinfectant.
- · Surgical light mode for recording under surgical lamps, and 16-axis independent color correction function.
- · Optical ND filter ideal for bright surgical lights (manual switchable).
- · Lens protector (MC Protector/Accessory) for the front panel Compact Camera Head is included.

*1: 4K acquisition is possible only when connected to Compact Camera Head, 4K refers to UHD (3840 x 2160) resolution. The maximum resolution in 4K shooting mode via HDMI/SDI output is FHD (1920 x 1080) 59.94i/50i. *2: Requires the Camera Head Option Cable AG-C20003G/C20020G. Note: Regardless of the memory card and recording mode, continuous recording that exceeds 10 hours is stopped and automatically restarted, causing the recording to stop for several seconds. Audio input can not be used when a compact camera head is connected.

■ POVCAM-Compatible PC Software (Free of Charge)



View Screen of PTZ Control Center

PTZ Control Center

Images from multiple LAN-connected POVCAMs can be controlled (Focus, Iris, Zoom, Gain, White Balance, Shutter, ND Filter, and Rec Start/Stop) while they are monitored on a PC screen

PTZ Virtual USB Driver

This driver allows LAN-connected POVCAMs to be used as USB cameras. This is helpful for network distribution and conferences. Up to 5 POVCAMs can be registered.

Download Site: https://pro-av.panasonic.net/en/products/ptz_software/index.html

AG-UMR20/AG-MDR25 Optional Accessories



AG-VBR118G Battery Pack (11,800 mAh)



AG-VBR89G Battery Pack (8,850 mAh)



AG-VBR59 Battery Pack (5,900 mAh)



AG-BRD50 Battery Charger



VW-VBD58 Battery Pack (5,800 mAh)



AG-B23 **Battery Charger**



AG-C20003G 3 m (9.84 ft) AG-C20020G 20 m (65.62 ft) Camera Head Option Cable





SDXC/SDHC Memory Card

AG-UMR20/AG-MDR25

G	е	n	е	r	a	l	
Po	٥V	٧e	er:	:			

DC 7.28 V (with battery), DC 12 V (with AC adaptor)

Power Consumption: In standalone condition:

1.1 A (with battery), 0.7 A (with AC adaptor) With the optional Camera Head* 2.2 A (with battery), 1.4 A (with AC adaptor)

Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F) Operating Humidity: 10 % to 80 % (no condensation)

Weight: Approx. 590 g (1.3 lbs) Dimensions: 100 mm (W) x 53.5 mm (H) x140 mm (D) (excluding protrusion)

(3-15/16 inches x 2-3/32 inches x 5-1/2 inches)

Memory Card Recorder Recording Media: SDXC Memory Card (48 GB to 128 GB), SDHC Memory Card (4 GB to 32 GB)

MP4: more than Class10, AVCHD: more than Class4

Recording Slot: 2 Slots System Format: 59.94 Hz / 50.00 Hz

Motion Recording: Recording system: MP4, AVCHD Recording mode/Recording time: Please see page 32 for the "Recording Format" table

Still Picture Recording:

Recording system: JPEG (DCF/Exif2.2)

Digital Video/Digital Audio

Output Video Signal:

8 bit 4:2:2

Recording Video Signal: 8 hit 4.2.0

Video Compression: MP4: MPEG-4, AVCHD: AVC/H.264 High Profile

Recording Audio Signal:

48 kHz/16 bit 2 CH

Audio Compression: MP4: LPCM, AVCHD: Dolby Audio Headroom: 12 dB

Video Input/Output

75 Ω, 3 G/1.5 G HD SDI supported Input format: 1080/59.94p LEVEL-A/LEVEL-B, 1080/50p LEVEL-A/LEVEL-B, 1080/29.97PsF/25PsF/23.98PsF. 1080/59.94i/50i, 720/59.94p/50p SDI OUT: BNC x 1, 0.8 V [p-p], 75 Ω, 3 G/1.5 G HD SDI supported

BNC x 1, 0.8 V [p-p],

Output format: same as input format HDMI OUT Type A connector x 1, VIERA Link not supported

> 2160/29.97p/25p/23.98p, 1080/59.94p/50p/ 29.97p/25p/23.98p/59.94i/50i, 720/59.94p/50p, 480/59.94p, 576/50p

Audio Input/Output			
MIC/LINE IN:	3.5 mm diameter, stereo mini jack (MIC IN and LINE IN) MIC: -60 dBV (sensitivity -40 dB equivalent, 0 dB=1 V/Pa 1 kHz), plug in power supported LINE: -10 dBV		
SDI OUT:	2 CH (LPCM), Gain: 0 dB/-6 dB/-12 dB (selectable menu)		
HDMI OUT:	2 CH (LPCM)		
Headphone:	3.5 mm diameter, stereo mini jack x 1		
Speaker:	20 mm diameter, round x 1		

External Terminal

CAMERA:	20 pin dedicated interface*1
LAN:	IP control LAN connector (RJ-45) Straight/cross cable auto-detect function
REMOTE:	2.5 mm diameter stereo mini jack x 1 (ZOOM, S/S) 3.5 mm diameter mini jack x 1 (FOCUS, IRIS)
USB 2.0:	Type Mini-B connector, mass storage (read/write)
DC IN 12 V:	DC 12 V (11.4 V to 12.6 V) EIAJ Type4
Monitor	

LCD Monitor: Network

Video Compression: Motion JPEG

MP4:MPEG-4, AVCHD: AVC/H,264 High Profile

3.5-type LCD monitor, approx. 1,150,000 dots

Audio Compression: AAC-LC (48kHz, 16 bit, 2 CH, 128 kbps) Transfer Mode*2: Resolution 640 x 360: (JPEG) Frame rate (59.94 Hz): 30 fps, 15 fps, 5 fps Frame rate (50.00 Hz): 25 fps, 12.5 fps, 5 fps Transfer Mode*2: Resolution 3840 x 2160/640 x 360: (H.264) Frame rate (59.94 Hz): 30 fps, 15 fps, 5 fps Frame rate (50.00 Hz): 25 fps, 12.5 fps, 5 fps Resolution 1920 x 1080/1280 x 720: Frame rate (59.94 Hz): 60 fps, 30 fps, 15 fps, 5 fps Frame rate (50.00 Hz): 50 fps, 25 fps, 12.5 fps, 5 fps

Supported Protocol:

TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, DHCP, DNS, NTP, IGMP, UPnP, ICMP, ARP, RTSP over TCP, RTSP over HTTP, SSL (TLS), MultiCast/UniCast

IP Connector Cable: LAN cable*3 (more than category 5) max. 100 m

Supported OS

Windows:	Microsoft® Windows 10 (32 bit/64 bit) Pro, Microsoft® Windows 7 (32 bit/64 bit) Professional SP1*4.
	Internet Explorer 11*5
Mac:	MacOS 10.12, OS X v10.11, Safari10

Supported Browser

iOS Device:	iPhone/iPad/iPod touch,
	iOS 10, standard browser
Android:	Android OS 4.4/6.0, standard browser

Supported Controller

Controller*6: AW-RP50, AW-RP120G, AK-HRP200G

AC Adaptor

AC Adaptor	
Rated Input Volta	age: AC 100 V - 240 V, 50 Hz/60 Hz, 1.2 A
Input Capacitan	ce: 79 VA (AC 100 V) , 99 VA (AC 240 V)
Rated Output:	DC 12 V, 3.0 A
Operating Tempera	ture: 0 °C to 40 °C (32 °F to 104 °F)
Operating Humid	dity: 10 % to 90 % (no condensation)
Weight:	Approx. 225 g (0.496 lbs)
Dimensions:	115 mm (W) x 37 mm (H) x 57 mm (D) (excluding DC code)
	(4-1/2 inches × 1-7/16 inches × 2-1/4 inches)

- *1: AG-UMR20 option camera head is AG-UCK20GJ. AG-MDR25 option Camera head is AG-MDC20GJ.
- *2: By the conditions, the frame rate is lower than setting.
- *3: STP (Shielded Twisted Pair) recommend.
- *4: Windows XP Compatible Mode cannot be used.
- *5: Microsoft Edge cannot be used.
- *6: Depending on a model, upgrade is required.

AG-UCK20GJ/AG-MDC20GJ

G			

Power:	DC 9 V (supplied from the Portable Recorder)				
	*AG-UCK20GJ is supplied from AG-UMR20.				
	*AG-MDC20GJ is supplied from AG-MDR25.				
Power Consumpt	tion: 0.6 A				
Operating Tempera	ture: 0 °C to 40 °C (32 °F to 104 °F)				
Operating Humid	dity: 10 % to 80 % (no condensation)				
Weight:	AG-UCK20GJ/AG-MDC20GJ:				
	approx. 325 g (0.717 lbs)				
	AG-MDC20GJ (including protector):				
	approx. 333 g (0.734 lbs)				
Dimensions:	AG-UCK20GJ/AG-MDC20GJ				
	(excluding protrusion):				
	64 mm (W) x 72 mm (H) x 131 mm (D)				
	(2-17/32 inches x 2-27/32 inches x 5-5/32 inches)				
	AG-MDC20GJ (including lens protector):				
	64 mm (W) x 72 mm (H) x 134.5 mm (D)				
	(2-17/32 inches x 2-27/32 inches x 5-9/32 inches)				
Camera					
Pickup Device:	1/2.3-type MOS solid state image sensor				
	Total pixels: 4168 x 3062				
	(approx. 12.76 megapixels)				

Pickup Device:	1/2.3-type MOS solid state image sensor Total pixels: 4168 x 3062 (approx. 12.76 megapixels)				
Lens:	Optical image stabilizer lens Zoom: optical 20x motorized zoom F value: F1.8 to F3.6, Focal length: f= 4.08 mm to 81.6 mm 35 mm conversion: 29.5 mm to 612.0 mm (Hybrid O.1S. mode "OFF") Filter diameter: 49 mm, ND filter (built-in): CLEAR, 1/4, 1/16, 1/64 Shortest shooting distance: 1.5 m (4.9 ft) at zoom range, 3 cm (0.1 ft) at wide angle IR cut filter: incorporates the ON/OFF control function				
Zoom:	i. Zoom: x30 (HD), x22 (4K) Digital zoom: x1.4, x2, x4, x6, x8				
Image Stabilizer:	Optical image stabilizer (HD/4K)				

	lotal pixels: 4168 x 3062 (approx. 12.76 megapixels)				
Lens:	Optical image stabilizer lens				
	Zoom: optical 20x motorized zoom				
	F value: F1.8 to F3.6,				
	Focal length: f= 4.08 mm to 81.6 mm				
	35 mm conversion: 29.5 mm to 612.0 mm				
	(Hybrid O.I.S. mode "OFF")				
	Filter diameter: 49 mm,				
	ND filter (built-in): CLEAR, 1/4, 1/16, 1/64				
	Shortest shooting distance:				
	1.5 m (4.9 ft) at zoom range,				
	3 cm (0.1 ft) at wide angle				
	IR cut filter:				
	incorporates the ON/OFF control function				
Zoom:	i. Zoom: x30 (HD), x22 (4K)				
	Digital zoom: x1.4, x2, x4, x6, x8				
Image Stabilizer:	Optical image stabilizer (HD/4K)				
	5-Axis hybrid image stabilizer (HD)				
Gain Setting:	Automatic, manual 0 dB to 30 dB(1 dB step),				
-	Super Gain 33 dB, 36 dB				
	*At auto mode, 3 dB to 30 dB (3 dB steps) can				
	be selected with AGC limit setting.				
White balance:	ATW, ATW LOCK, AWB A, AWB B,				
	P3200K, P5600K, VAR (2000 K to 15000 K)				

Shutter Speed:	59.94i/59.94p mode:				
	1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec.,				
	1/250 sec., 1/350 sec., 1/500 sec., 1/750 sec.,				
	1/1000 sec., 1/1500 sec., 1/2000 sec.,				
	1/3000 sec., 1/4000 sec., 1/8000 sec.				
	29.97p mode:				
	1/30 sec., 1/50 sec., 1/60 sec., 1/100 sec.,				
	1/120 sec., 1/180 sec. to 1/8000 sec.				
	(same as above)				
	23.98p mode:				
	1/24 sec., 1/48 sec., 1/50 sec., 1/60 sec., 1/100 sec., 1/120 sec., 1/180 sec. to 1/8000 sec.				
	(same as above)				
	50i/50p mode:				
	1/50 sec., 1/60 sec., 1/100 sec.,				
	1/125 sec., 1/180 sec. to 1/8000 sec.				
	(same as above)				
	25.00p mode:				
	1/25 sec., 1/50 sec., 1/60 sec., 1/100 sec.,				
	1/125 sec., 1/180 sec. to 1/8000 sec.				
	(same as above)				
Slow Shutter:	59.94i/59.94p mode:				
	1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec., 1/30 sec.				
	29.97p mode:				
	1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec.				
	23.98p mode:				
	1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.				
	50i/50p mode:				
	1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec., 1/25 sec.,				
	25.00p mode:				
0 1 0	1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.				
Synchro Scan:	59.94i/59.94p mode: 1/60.0 sec. to 1/285.6 sec.				
	29.97p mode: 1/30.0 sec. to 1/206.5 sec.				
	23.98p mode: 1/24.0 sec. to 1/280.1 sec. 50i/50p mode: 1/50.0 sec. to 1/209.2 sec.				
	25p mode: 1/25.0 sec. to 1/224.3 sec.				
Minimum Illuminatio	n:0.2 lx (slow shutter: 1/2 sec., gain: +36 dB)				
	n: 1300 TV lines (HDMI output 2160/29.97p,				
(Typ, Center)	when 25.00p playback)				
(1)p, Conten	1000 TV lines (HDMI output 1080/59.94p,				
	when 50.00p playback)				
Input/Output					
AUDIO IN:	Built-in microphone (2 CH stereo)				

20 pin dedicated interface *AG-UCK20GJ is connected with AG-UMR20.

*AG-MDC20GJ is connected with AG-MDR25.

Recording Format (AG-UMR20/AG-MDR25 Memory Card Portable Recorder)

Doografina	Mode	Image Size	Bit Rate	Frame Rate		Audio	Recording Time*2	
Recording	ј Моде			59.94 Hz	50.00 Hz	Audio	(128 GB)	
MP4*1	4K	3840 x 2160	50 Mbps (VBR)	29.97p 23.98p	25p	LPCM 1.5 Mbps	Approx. 5 hours 20 min.	
	PS	1920 x 1080	25 Mbps (VBR)	59.94p	50p		Approx. 11 hours	
	PH		21 Mbps (VBR)	59.94i 23.98p	50i	Dolby Audio 384 kbps	Approx. 12 hours 30 min.	
AVCHD	НА		17 Mbps (VBR)	59.94i	50i	Dolby Audio 256 kbps	Approx. 17 hours	
AVOID	HE	1440 x 1080	5 Mbps (VBR)	59.94i	50i	Doiby Audio 256 kbps	Approx. 56 hours	
	PH	1280 x 720	21 Mbps (VBR)	59.94p	50p	Dolby Audio 384 kbps	Approx. 12 hours 30 min.	
	РМ	1260 X 720	8 Mbps (VBR)	59.94p	50p	Dolby Audio 256 kbps	Approx. 35 hours	

Connector:

^{*1:} When using optional Camera Head. *2: When continuous recording exceeds 10 hours, the recording is stopped and automatically restarted approximately each 10 hours, causing the recording to stop for several seconds.









AVCULTRO HOR



AJ-CX4000GJ

Memory Card Camera Recorder

2/3-type Lens Large size 4.4K 1 MOS 24 bit Audio

expressP2 card slot x 1 | microP2 card slot x 2 | Network

Scheduled for release in December 2019

Next-Generation ENG Shoulder Camcorder Supporting 4K/HDR and IP Connection

- · Depth of field secured with the B4 lens mount and 2/3-in. image circle.
- Two filter wheels (ND and CC).
- · Includes a newly developed large 4.4K image sensor. Sampling exceeding 4K is used to achieve a resolution of 2000 TV lines.
- F10 (60 Hz)/F11 (50 Hz) sensitivity in High Sens. mode.
- · Supports HDR (High Dynamic Range)*1 image acquisition and outputs SDR*2 while acquiring HDR.
- Multi-formats: MOV (4K/HD) and P2 MXF*3 (HD only).
- New HEVC Codec 100 Mbps mode for ENG (4K 60p 4:2:0 10-bit).
- 4:2:2 10-bit recording: 4K up to 30p/25p and HD up to 60p/50p (H.264/AVC, AVC-Intra and AVC-LongG).
- · Four-channel 24-bit LPCM audio recording.
- · The express P2 card offers ultra high speed offloading.
- Lower running cost media: microP2 card/SDXC memory card.
- · Light weight: 7.5 lbs./3.4kg (body only) and excellent weight balance.
- · Offers the Direct Streaming function compatible with RTSP, RTMP and RTMPS.*4
- 4K 60p/50p 4:2:2 10-bit output via 12G-SDI out and HDMI out.
- Newly developed built-in LCD monitor of HD720p resolution with touch panel function.
- Newly developed High-contrast monochrome OLED display for the timecode and audio level indicator.
- · Includes various network connections: Gigabit Ethernet with locking connector, wireless LAN (option) and USB 3.0 connector.
- NDI/HX compatibility (requires license purchase).*5
- Wireless remote from an ROP App (iOS/Android).*6

AG-CX350 NEW

Memory Card Camera Recorder

Integrated Lens System (Optical 20x Zoom) 1.0-type MOS 24 bit Audio SD Memory Card Slot x 2 Network

High-End Handheld Camcorder Supporting 4K/HDR, IP Control and Streaming.

- · Wide angle 24.5 mm, 20x optical zoom lens with three manual rings.
- · New high-definition, high-sensitivity 1.0-type 15M MOS sensor.
- Supports HDR (High Dynamic Range)*1 image acquisition and outputs SDR*2 while acquiring HDR.
- New HEVC Codec 100 Mbps mode for ENG (4K 60p 4:2:0 10-bit).*3
- Multi-formats: MOV (4K/HD), AVCHD (HD/SD) and P2 MXF*3 (HD).
- 4:2:2 10-bit recording: 4K up to 30p/25p and HD up to 60p/50p (H.264/AVC, AVC-Intra and AVC-LongG).
- · Variable frame rate up to 120 fps (100 fps) of FHD, 60 fps (50 fps) of 4K.
- · New microdrive focus unit provides a high-speed, high-precision Intelligent AF.
- · Advanced hand-shake correction with ball OIS system, and 5-axis Hybrid Image Stabilizer. (FHD only)
- Two memory card slots boost recording reliability: Background Recording, Relay Recording, Simultaneous Recording.
- · Offers the Direct Streaming function compatible with RTSP, RTMP and RTMPS,*4
- NDI | HX compatibility (requires license purchase).*5
- · Broadcast-grade picture adjustment functions, such as 16-axis independent color correction.
- · Parallel output of SDI, HDMI and LCD and individual HDR/SDR setting.
- Four-channel 24-bit LPCM Audio recording.
- · Simultaneous display on high-brightness, highdefinition LCD and high-resolution OLED EVF.
- Wireless remote from an ROP App (iOS/Android).*6

^{*1:} The HLG specification was developed jointly by Japanese broadcaster NHK and the BBC in the UK. It is defined in ARIB STD-B67 and ITU Rec. 2100. *2: SDR image is output with monitor gamma. *3: To be supported within 2019. *4: P2 Network Setting Software is required for using the RTMP and RTMPS functions. See the "Connectivity-verified live video services" section for live video streaming services with confirmed compatibility.

New CX Series Delivers Next-Generation Creativity and Connectivity



HDR (High Dynamic Range) Image

4K/HDR Image Acquisition

Equipped with a new, high-definition, high-sensitivity MOS sensor, the CX Series supports multi-formats, such as 4K (UHD: 3840×2160), FHD, HD, and SD. It also features HLG (Hybrid Log Gamma)*1 to support HDR (High Dynamic Range) image acquisition. When shooting in HLG, it can be used to monitor and output SDR images.

Easy IP Connection, NDI HX Compatibility

The CX Series is the industry's first camcorder to support NDI | HX.*5 Equipped with an NDI | HX mode, it allows video transmission and camera control via IP connection, without using an external converter. When connected to a system configured with PTZ cameras, it enables end-to-end video production of live events and web distribution.

RTSP/RTMP/RTMPS-Compatible HD Streaming

HD streaming is possible while images are being acquired.*7 and RTSP. RTMP and RTMPS streaming methods are compatible.*4 Facebook, YouTube, and other streaming services are also



supported. This allows the CX Series to be used for live coverage of concerts and sports events as well as for live streaming of breaking news. Multicast streaming is also supported.*3

MOV/P2 MXF File Formats Supported

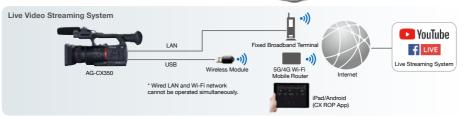
The CX Series records MOV files that are highly compatible and easy to use. It also supports the MXF P2 file format for broadcasting, enabling AVC-Intra or AVC-LongG HD recording.*3

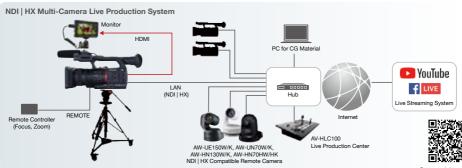
10-bit 4:2:2 Recording or New HEVC Codec

The CX Series is capable of recording in various formats at different compression rates (see the table

below). It can record high-image-quality 10-bit 4:2:2. 4K 30p/25p, and HD 60p/50p. The new HEVC Codec achieves high-quality 4K 60p/50p, 10-bit 4:2:0 at a bit rate of 100 Mbps for playback using the free VLC Media Player or

QuickTime Player on a notebook PC or MacBook *8





*5: 4K image output not supported in NDI | HX mode. To use this function, an activation keycode from NewTek is required. Keycodes can be purchased from the following website: http://new.tk/ndi_panasonic_*6; iPad; iOS 9 or later is supported. Android devices; Android 5.0 or later is supported. Wireless module (sold separately; AJ-WM50/WM50G or recommended third-party Wi-Fi dongle) is required. *7: There are some conditions under which streaming is not possible, such as when recording in UHD format or using NDI|HX mode. Please see the Operating Instruction Manual for details. *8: To be supported within 2019. AVC-Intra200/100/50 codec will be supported in the future. Use a microP2 card for recording in P2 format.*9: Playback may lack smoothness depending on the PC environment, such as storage and memory devices.



Operating Instruction Manual

CX series Recording Format

AG-CX350 Recording Format

Recording Format		Pixels	Color Sampling	Bit Depth	Bit Rate	File Format	VFR*2	Audio		
MOV (HEVC)		HEVC LongGOP 200M	3840 x 2160	4:2:0	10 bit	200 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps] (Max. 200 Mbps)	24 bit LPCM	
		HEVC LongGOP 150M	3840 x 2160	4:2:0	10 bit	150 Mbps (VBR)	29.97p, 25p, 23.98p			
		HEVC LongGOP 100M*1	3840 x 2160	4:2:0	10 bit	100 Mbps (VBR)	59.94p, 50p			
	UHD	422ALL-I 400M	3840 x 2160	4:2:2	10 bit	400 Mbps (VBR)	29.97p, 25p, 23.98p	1 to 30 fps [25 fps]		
		422LongGOP 150M	3840 x 2160	4:2:2	10 bit	150 Mbps (VBR)	29.97p, 25p, 23.98p	1 to 30 fps [25 fps]		
		420LongGOP 150M	3840 x 2160	4:2:0	8 bit	150 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps] (Max. 150 Mbps)		
		420LongGOP 100M	3840 x 2160	4:2:0	8 bit	100 Mbps (VBR)	29.97p, 25p, 23.98p			
MOV (AVC)		422ALL-I 200M	1920 x 1080	4:2:2	10 bit	200 Mbps (VBR)	59.94p, 50p	1 to 60 fps [50 fps]		
	FHD	422ALL-I 100M	1920 x 1080	4:2:2	10 bit	100 Mbps (VBR)	29.97p, 25p, 23.98p, 59.94i, 50i	Super Slow: 120 fps [100 fps] (Max. 400 Mbps) 1 to 60 fps [50 fps] Super Slow: 120 fps [100 fps] (Max. 200 Mbps)		
		422LongGOP 100M	1920 x 1080	4:2:2	10 bit	100 Mbps (VBR)	59.94p, 50p			
		422LongGOP 50M	1920 x 1080	4:2:2	10 bit	50 Mbps (VBR)	29.97p, 25p, 23.98p, 59.94i, 50i			
		PS	1920 x 1080	4:2:0	8 bit	25 Mbps (VBR)	59.94p, 50p	_		
		PH	1920 x 1080	4:2:0	8 bit	21 Mbps (VBR)	23.98p, 59.94i, 50i	_		
AVCHD		НА	1920 x 1080	4:2:0	8 bit	17 Mbps (VBR)	59.94i, 50i	_	Dolby	
	HD	PM	1280 x 720	4:2:0	8 bit	8 Mbps (VBR)	59.94p, 50p	_	Audio	
	SD	SA	720 x 480 (59.94i) 720 x 576 (50i)	4:2:0	8 bit	9 Mbps (VBR)	59.94i, 50i	_		
	FHD	AVC-Intra422*1	1920 x 1080	4:2:2	10 bit	200 Mbps (CBR)	59.94p, 50p	_	24 bit LPCM	
		AVC-LongG50*1	1920 x 1080	4:2:2	10 bit	50 Mbps (VBR)	59.94i, 50i	_		
P2*1 (MXF)		AVC-LongG25*1	1920 x 1080	4:2:2	10 bit	25 Mbps (VBR)	59.94p, 50p, 59.94i, 50i	_		
		AVC-LongG12*1	1920 x 1080	4:2:0	8 bit	12 Mbps (VBR)	59.94p, 50p, 59.94i, 50i	_	16 bit LPCM	
	HD	AVC-LongG50*1	1280 x 720	4:2:2	10 bit	50 Mbps (VBR)	59.94p, 50p	_	24 bit	
		AVC-LongG25*1	1280 x 720	4:2:2	10 bit	25 Mbps (VBR)	59.94p, 50p	_	LPCM	
		AVC-LongG12*1	1280 x 720	4:2:0	8 bit	12 Mbps (VBR)	59.94p, 50p	_	16 bit LPCM	

^{*1:} To be supported within 2019.

 $^{^{\}star}2$: VFR is supported only in Progressive mode. Square brackets [] indicate a system frequency of 50.00 Hz.

AG-CX350 Options



AG-VBR118G Battery Pack (11,800 mAh)



AG-VBR89G Battery Pack (8,850 mAh)



AG-VBR59 Battery Pack (5,900 mAh)



AG-BRD50 Battery Charger



VW-VBD58 Battery Pack (5,800 mAh)



AG-B23 Battery Charger



AG-MC200G XLR Microphone



AJ-P2M064BG Memory Card "microP2 card B series"





SDXC/SDHC/SD Memory Card*1 AJ-WM50

AJ-WM50G NEW Wireless Module*2





Connection Confirmed Wireless Module*2 (including third-party products)



*2: A version upgrade may be required for the software version of the camera recorder. For details please visit Panasonic website (https://pro-av.panasonic.net/en/sales_o/p2/server/wireless_module. html)

AG-CX350 Available Battery Pack

Battery	Voltage and Capacity	Charge time*1	Continuous shooting time*2
AG-VBR59 (Bundled)	7.28 V, 5900 mAh/43 Wh	Approx. 3 hours 20 min.	Approx. 2 hours 50 min.
AG-VBR89G	7.28 V, 8850 mAh/64 Wh	Approx. 4 hours	Approx. 4 hours 15 min.
AG-VBR118G	7.28 V, 11800 mAh/86 Wh	Approx. 4 hours 40 min.	Approx. 5 hours 40 min.
VW-VBD58	7.2 V, 5800 mAh/42 Wh	Approx. 5 hours 20 min.	Approx. 2 hours 40 min.

^{*1:} When using bundled battery charger. *2: "Continuous shooting time" is when you use this machine in the following condition [Menu setting is factory preset, Have LCD monitor and grip attached, No cable is connected to outputs]. Under other conditions, continuous shootable time becomes shorter.

AG-CX350 Available Memory Card

Format	Memory Card Type		Bit Rate / Recording Function	Speed Class
			400 Mbps	Video Speed Class V60 or faster
			FHD ALL-I VFR mode	Video Speed Class voo of laster
	MOV SDXC memory card/ microP2 card B series		200 Mbps	
			150 Mbps	Video Speed Class V30
MOV			100 Mbps	UHS Speed Class 3 or faster
			FHD LongG VFR mode	
			50 Mbps	Video Speed Class V10 UHS Speed Class 1 Speed Class 10 or faster
AVCHD	SDHC/SDXC memory card/microP2 card		All	Speed Class 4 or faster
P2*	microP2 card		All P2 recording modes supported by the AG-CX350*	_

^{*}To be supported within 2019.

^{*1:} UHS Speed Class 3 (U3) SD memory card is necessary for video recording of 100 Mbps or more. UHS Speed Class 3 (U3) SDXC memory card of 64 GB or more is necessary for video recording of UHD2160/59.94p/50.00p 150 Mbps.

AG-CX350

Power:	DC 7.28 V (when the battery is used)		
	DC 12 V (when the AC adaptor is used)		
Power Consumption:	17 W (when the LCD monitor is used)		
	11.5 W (1080i / 422ALL-I 100M recording,		
	when the LCD monitor is used, no external		
	device connection)		
Operating Temperature:	:0 °C to 40 °C (32 °F to 104 °F)		
Operating Humidity:	10 % to 80 % (no condensation)		
Weight:	Body: approx. 1.9 kg (4.19 lb) (body only,		
	excluding lens hood, battery, and accessories)		
	Shooting: approx. 2.3 kg (5.07 lb) (including		
	lens hood, battery, and microphone holder)		
Dimensions:	180 mm (W) x 173 mm (H) x 311 mm (D)		
	(7-1/8 inches x 6-13/16 inches x 12-1/4 inches)		
	(excluding protrusion and eye cup)		

Camera Unit

Pickup Device:	1.0-type (effective size)
	MOS solid state image sensor
Effective Pixels:	15,030,000 pixel
Lens:	Optical image stabilizer lens, optical 20x motorized zoom F value: F2.8 to F4.5 Focal length: f=8.8 mm to 176 mm 35 mm equivalent: 24.5 mm to 490 mm
	Filter Diameter: 67 mm ND Filter: Clear, 1/4, 1/16, 1/64 IR Filter: Incorporates the ON/OFF control function Shortest Shooting Distance (M.O.D.): Approx. 10 cm (W), 1.0 m (f) from the front lens
Gain Setting:	L/M/H selector switch -3 dB to 18 dB (Adjustable in 1 dB steps) 24dB, 30 dB, 36 dB switched (when assigning [S. GAIN] to the USER button)
Color Temperatur	e Setting:

ATW, ATW LOCK, A ch, B ch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K) When [SYSTEM MODE] = 59.94 Hz

Shutter Speed:

 59.94i/59.94p mode: 1/60 sec. (shutter off), 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec.

29.97p mode:

1/30 sec., 1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec.

23.98p mode:

1/24 sec., 1/48 sec., 1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec. When [SYSTEM MODE] = 50.00 Hz

• 50i/50p mode:

1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec.

25p mode:

1/25 sec., 1/50 sec. (shutter off), 1/60 sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/4000 sec., 1/8000 sec., 1/10000 sec.

Shutter Speed: (Slow Shutter)

When [SYSTEM MODE] = 59.94 Hz

· 59.94i/59.94p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 1/30 sec. · 29.97p mode: 1/1 sec., 1/2 sec., 1/4 sec.,

1/6 sec., 1/15 sec. · 23.98p mode:

1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec. When [SYSTEM MODE] = 50.00 Hz • 50i/50p mode: 1/1 sec., 1/2 sec., 1/4 sec.,

1/6 sec., 1/12 sec., 1/25 sec. · 25p mode: 1/1 sec., 1/2 sec., 1/4 sec.,

1/6 sec., 1/12 sec.

Shutter Speed: (Synchro Scan)

When [SYSTEM MODE] = 59.94 Hz 59.94i/59.94p mode: 1/60.0 sec. to 1/7200 sec.

 29.97p mode: 1/30.0 sec. to 1/7200 sec. · 23.98p mode: 1/24.0 sec. to 1/7200 sec. When [SYSTEM MODE] = 50.00 Hz • 50i/50p mode: 1/50.0 sec. to 1/7200 sec. • 25p mode: 1/25.0 sec. to 1/7200 sec.

Shutter Open Angle: 3.0 deg to 180.0 deg to 360.0 deg (in 0.5 deg steps)

VFR Recording Frame Rate:

When [SYSTEM MODE] = 59.94 Hz 1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40, 44, 48, 54, 60 (fps) When [SYSTEM MODE] = 50.00 Hz

1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 23, 24, 25. 26, 27, 28, 30, 32, 34, 37, 42, 45, 48, 50 (fps)

Super Slow Recording:

When [SYSTEM MODE] = 59.94 Hz 1920 x 1080 (FHD): shooting frame rate 120 fps When [SYSTEM MODE] = 50.00 Hz 1920 x 1080 (FHD): shooting frame rate 100 fps

Sensitivity: When [HIGH SENS.] mode F12 (2000 lx, 3200 K, 89.9 % reflect, 2160/59.94p, 1080/59.94i) F13 (2000 lx, 3200 K, 89.9 % reflect,

2160/50p, 1080/50i) Horizontal Resolution:

2000 TV or higher (UHD: center) 1000 TV or higher (FHD: center) x 32 (FHD), x 24 (UHD) i.Zoom: Digital Zoom: x 2/ x 5/ x 10 Hood with lens cover Lens Hood:

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 supported,
	Video Speed Class V90 supported
	microP2 card (A series, B series)
	Please see 36 page for the
	"Available Memory Card" table.
Recording Slot:	microP2/SDXC UHS-II card slot x 2
Recording Pixels:	3840 x 2160 (UHD), 1920 x 1080 (FHD),
	1280 x 720 (HD),
	720 x 480(SD), 720 x 576 (SD)
System Frequency	: 59.94 Hz/50.00 Hz
Pagarding File For	mot:

Recording File Format:

MOV (AVC), MOV (HEVC), AVCHD, P2 MXF*1 Recording Format: Please see page 35 for the "Recording Format" table. Recording Time: Please see page 38 for the "Recording Format" table. 2 Slot Functions: Relay Rec, Simultaneous Rec, Background Rec Special Recording Functions:

Pre Rec, Interval Rec, Time Stamp

Digital Video

Quantization: 4:2:2 10 bit/4:2:0 8 bit/4:2:0 10 bit (HEVC) AVCHD: 4:2:0 8 bit P2*1: 4:2:2 10 bit/4:2:0 8 bit (AVC-LongG12)

Video Compression Format:

H.264/MPEG-4 AVC High Profile, MOV: H.265/MPEG-H HEVC Main10 Profile AVC-Intra422/AVC-LongG 50/ AVC-LongG25/

AVC-LongG12:

MPEG-4 AVC/H.264 High Profile

Digital Audio

Headroom:

Recording Audio Signal:

MOV: 48 kHz/24 bit, 2 ch, Linear PCM AVCHD: 48 kHz/16 bit, 2 ch, Dolby Audio™ 48 kHz/24 bit, 4 ch, Linear PCM (In AVC-LongG12, 48 kHz/16 bit, 4 ch) 12 dB/18 dB/20 dB switchable (menu)

Video Compression	n Format:		
•	H.264/MPEG-4 AVC Main Profile, High Profile		
Video Resolution:	: 1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 360 x 180		
Streaming Method	: Unicast, Multicast*1		
Frame Rate:	System frequency = 59.94 Hz: 30 fps, 60 fps System frequency = 50.00 Hz: 25 fps, 50 fps		
Bit Rate:	24 Mbps, 20 Mbps, 16 Mbps, 14 Mbps, 8 Mbps 6 Mbps, 4 Mbps, 3 Mbps, 2 Mbps, 1.5 Mbps, 1 Mbps, 0.7 Mbps, 0.5 Mbps		
Audio Compressio	n Format:		
	AAC-LC, 48 kHz/16 bit, 2 ch		
Network Protocol:	RTSP/RTP/RTMP/RTMPS		

Network Protocol:	RTSP/RTP/RTMP/RTMPS		
Video Output			
SDI OUT:	BNC x 1, SDI REC REMOTE supported		
	HD: 0.8 V [p-p], 75 Ω SD: 0.8 V [p-p], 75 Ω,		
	Output format (4:2:2 10 bit):		
	 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 		
	29.97Psf, 25Psf, 23.98PsF		
	 1280 x 720: 59.94p, 50p 		
	• 720 x 480: 59.94i • 720 x 576: 50i		
HDMI OUT : supported,	HDMI x 1, Type A, HDMI REC REMOTE		
	VIERA Link not supported		
	Output format (4:2:2 10 bit):		
	• 3840 x 2160: 59.94p, 50p, 29.97p, 25p,		
23.98p			
•	• 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p,		
25p, 23.98p			
	• 1280 x 720: 59.94p, 50p		
	• 720 x 480: 59.94p • 720 x 576: 50p		
VIDEO OUT:	3.5 mm diameter mini jack, composite 1.0 V [p-p], 75 Ω		

Audio Input/Output

Built-in Microphon	e: Stereo microphone
Input 1/2:	XLR (3-pin) x 2 (INPUT1, INPUT2)
	Input high impedance,
	LINE/MIC/MIC+48V (switchable SW)
	MIC: -40 dBu/-50 dBu/-60 dBu (switchable menu)
	LINE: +4 dBu/0 dBu (switchable menu)
SDI OUT:	Linear PCM 4 ch
HDMI OUT:	Linear PCM 2 ch
Headphone:	3.5 mm diameter stereo mini jack x 1
AV OUT:	3.5 mm diameter stereo mini jack x 1,
	Output level: 600 Ω, 316 mV
Speaker:	20 mm diameter, round x 1

Other Input/Output TC IN/OUT:

IC IN/OUT:	BNC x 1,
	Used as the input and output terminals
	(switchable menu)
	Input: 1.0 V to 4.0 V [p-p] 10 KΩ
	Output: 2.0 V ± 0.5 V [p-p] low impedance
REMOTE:	2.5 mm diameter super mini jack
LAN:	RJ-45: 1000BASE-T/100BASE-TX/10BASE-T
	NDI HX supported*
	*To use this function, an activation keycode from
	NewTek is required. Keycodes can be purchased from
	the following website: http://new.tk/ndi_panasonic
USB 2.0 HOST:	Type-A,
	4-pin (5 V, 0.5 A) for Wireless Module (option)
USB 3.0 DEVICE:	USB 3.1 GEN1 Type-C,
	USB Mass storage function
	No USB bus power function
DC IN 12V:	DC 12 V EIAJ Type 4

Monitor/Viewfinder

MOTITOR A LEA	Wollton, Mewillider		
LCD Monitor:	3.5 type TFTLCD color monitor (3:2), approx. 1,620,000 dots, Touch panel video display (16: 9) area: Approx. 1,370,000 dots		
Viewfinder:	0.39 type OLED (organic EL display), approx. 2,360,000 dots, video display (16: 9) area: approx. 1,770,000 dots		

Included Accessories

Battery (AG-VBR59), Battery charger (AG-BRD50), AC adaptor, AC cable, Microphone holder kit, Shoulder strap, Eye cup, Lens hood*, Grip belt* and Operating instructions (Items marked by an asterisk (*) come already attached to the camera)

Recording Time

Recording Format			64 GB Memory Card	128 GB Memory Card
		400 Mbps	Approx. 20 min.	Approx. 40 min.
	UHD	200 Mbps	Approx. 40 min.	Approx. 1 hour 20 min.
MOV (A)(O LIEVO)	UHD	150 Mbps	Approx. 55 min.	Approx. 1 hour 50 min.
MOV (AVC, HEVC)		100 Mbps	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
	EUD	100 Mbps	Approx. 1 hour 20 min.	Approx. 2 hours 40 min.
FHD	FHD	50 Mbps	Approx. 2 hours 40 min.	Approx. 5 hours 20 min.
PS PH HA	PS	25 Mbps	Approx. 5 hours 20 min.	Approx. 11 hours
	PH	21 Mbps	Approx. 6 hours	Approx. 12 hours 30 min.
	НА	17 Mbps	Approx. 8 hours 30 min.	Approx. 17 hours
	PM	8 Mbps	Approx. 17 hours 10 min.	Approx. 35 hours
SA	9 Mbps	Approx. 16 hours 30 min.	Approx. 34 hours	
	AVC-Intra422	200 Mbps	Approx. 32 min.	Approx. 1 hour 4 min.
	AVC-LongG50	50 Mbps	Approx. 2 hours 8 min.	Approx. 4 hours 16 min.
P2*	2* AVC-LongG25	25 Mbps	Approx. 4 hours 16 min.	Approx. 8 hours 32 min.
	AVC-LongG12	12 Mbps	Approx. 8 hours	Approx. 16 hours

^{*}To be supported within 2019.

^{*}To be supported within 2019.

Memory Card Camera Recorder/Memory Card Recorder



AJ-PX5100GJ

AVC ULTRA

Memory Card Camera Recorder

2/3-type Lens 2/3-type 3MOS 24 bit Audio

P2 card slot x 2 | microP2 card slot x 2 | Network

High-End ENG Camera Recorder with HDR Acquisition and RTSP/RTMP Streaming/Transmission.

- · Supports HDR (High Dynamic Range) image acquisition and outputs SDR*1 while acquiring HDR.
- 1080/60p*2 (50p) recording and 3G-SDI output.
- AVC-Intra or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- · Includes various network connections, such as "Wired/wireless LAN"**, "4G/LTE"** and "Bonding Services"** (with LiveU, TVU Networks etc.)
- · Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- Offers a streaming function compatible with RTMP (Real-Time Message Protocol), in addition to RTSP (Real-Time Streaming Protocol).



AJ-PX800G

AVC ULTRA

Memory Card Camera Recorder

AJ-PX800GH: Bundled with AG-CVF15G Color LCD Viewfinder

2/3-type Lens 2/3-type 3MOS 24 bit Audio

P2 card slot x 2 microP2 card supported*3 Network

2/3-type Shoulder-Type HD Camera Recorder with Three Image Sensors.

- · Light weight of approx. 2.8 kg (6.2 lb).
- · AVC-Intra or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- · Various network connections such as "Wired/ wireless LAN**", "4G/LTE**" and "Bonding Services**" (with LiveU. TVU Networks etc.)
- · Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- · RTMP/RTSP compatible streaming function.



AJ-PX380G

AVC ULTRA

Memory Card Camera Recorder

1/3-type Lens 1/3-type 3MOS 24 bit Audio

P2 card slot x 1 | microP2 card slot x 2 | Network

High Cost-Performance, Lightweight Design with High-Quality Shooting and Network Operation**.

- 1080/60p*2 (50p) recording and 3G-SDI output.
- AVC-Intra or AVC-LongG high-quality images and dual codec recording of AVC-Proxv.
- · Various network connections such as "Wired/ wireless LAN**", "4G/LTE**" and "Bonding Services**" (with LiveU, TVU Networks etc.)
- The built-in camera adaptor function provides direct linking for simpler studio camera workflows*4.
- · Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- · RTMP/RTSP compatible streaming function.

*Pictures are the example of the configuration using options. **For details, refer to "Notes Regarding Network Connections" on the back page. *1: SDR image is output with monitor gamma. *2: 60i, 60p, 24p and 30p are actually recording in 59.94p, 23.98p, 29.97p respectively. *3: Requires the optional AJ-P2AD1G Memory Card Adapter to use the microP2 card. *4: Not available in some areas. *5: Requires the optional AJ-YCX500G AVCHD Codec Board.



AJ-PX270

AVC ULTRA

Memory Card Camera Recorder

Integrated Lens System 1/3-type 3MOS 24 bit Audio

P2 card slot x 1 microP2 card slot x 2

High-Performance, Handheld Shooting with Shoulder-Type Quality and Network Operation.

- 22x zoom lens with three manual operation rings.
- 600% dynamic range with 1/3-type 3MOS sensors.
- 1080/60p*2 (50p) recording and 3G-SDI output.
- AVC-Intra200 or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- Variable Frame Rate Supporting 1080p.
- · Various network connections such as "Wired/ wireless LAN**", "4G/LTE**" and "Bonding Services**" (with LiveU, TVU Networks etc.)
- · Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- RTMP/RTSP compatible streaming function.



AJ-PX230*

microP2 card slot x 2

AVC ULTRO

Memory Card Camera Recorder

Integrated Lens System 1/3-type 3MOS 24 bit Audio

Featuring Superb Image Quality, Functionality and Operability Matching Shoulder-Type Cameras.

- 22x zoom lens with three manual operation rings.
- · Switches and controls designed to match shouldertype usability.
- 600% dynamic range with 1/3-type 3MOS sensors.
- 1080/60p*2 (50p) recording and 3G-SDI output.
- · AVC-Intra200 or AVC-LongG high-quality images.
- · Variable Frame Rate Supporting 1080p.



AJ-PD500

AVC ULTRA

Memory Card Recorder

P2 card slot x 2 microP2 card slot x 2 24 bit Audio

Network AVCHD 3G-SDI I/O AES/EBU HDMI OUT USB 3.0/2.0 RS-422A Parallel AC/DC

From Mastering to Network Solutions, a Half-Rack Size Recorder for a High-Quality, High-Speed Workflow.

- · AVC-Intra200, AVC-LongG, AVC-Proxy recording and AVCHD*5 playback capability.
- Gigabit-Ethernet-compatible client function.**
- Plavlist editing via LAN.**
- · Wide range of interfaces, including USB 3.0, 3G-SDI and HDMI.

HDMI'



AJ-PG50

AVC ULTRA

Memory Card Recorder

P2 card slot x 1 | microP2 card slot x 2 | Network 24 bit Audio Analog I/O 3G-SDI I/O HDMI I/O

USB 3.0/2.0 Battery /DC

High Picture Quality AVC-Intra200 codec. A Compact Field Recorder Realizing Network Workflow.

- · AVC-Intra200 or AVC-LongG high-quality images and dual codec recording of AVC-Proxy.
- Various network connections such as "Wired/ wireless LAN**", "4G/LTE**" and "Bonding Services**" (with LiveU, TVU Networks etc.)
- · Clips are automatically uploaded to FTP server while recording (Rec during uploading).
- · Provides near-live uploading to P2 Cast, and live streaming with P2SS by QoS mode.
- · RTMP/RTSP compatible streaming function.
- · Versatile interfaces, including HDMI IN/OUT and 3G-SDI IN/OUT. HDMI

High Picture Quality Codec, High Reliable Media, HDR Support and Various Remotes for Broadcast and Professional Needs.

FHD Image Acquisition with AVC-ULTRA Codecs

The AVC-ULTRA codecs feature high picture quality, high efficiency H.264 based video compression. The main recording can be selected from AVC-Intra200 for mastering, AVC-intra100 with FHD/60p/50p support, AVC-Intra50, or AVC-LongG (50/25/12) for FHD 10-bit 4:2:2 with affordable bit rate. While offering a low bit rate suitable for previewing, sub recording AVC-Proxy provides an FHD resolution mode that can be used as is for breaking news and similar applications.

The conventional DVCPRO codec is also supported. *Applicable codec varies depending on the models. Please see page 47 to 48 for details

AVCINTRA AVCLORGE AVCETOXU

HDR Support (AJ-PX5100GJ)

In addition to being equipped with HLG "Hybrid Log Gamma"*, the following functions assist HDR acquisition.

- SDR Monitoring Gamma: Gamma curves for monitoring HLG images with the SDR viewfinder or other SDR monitor. These gamma curves possess characteristics for expressing the gradation in high-brightness area while maintaining the contrast of ordinary-brightness area.
- HDR/SDR Output: Dual SDI can output both HDR (HLG) and SDR (monitoring gamma) simultaneously.
- One-Push HLG View: While the viewfinder display with monitoring gamma ordinary, the gradation of high-brightness area can be checked by selecting HLG temporarily.
- High-Brightness Zebra Display: The zebra pattern can be displayed in white-out areas of the viewfinder image.

* BT.709 color gamut (BT.2020 is not supported)





SDR (monitoring gamma) View

HLG View on Viewfinde

Reliable Recording Media: P2 Card/microP2 Card

The P2 card, which was designed for broadcast use. features a rugged case and highly reliable connector. The





microP2 card features high reliability and a large capacity together with a reduced size and cost. In an emergency, an SD memory card can also be used.

Versatile Remote Control Compatibility

- 10-pin Remote Terminal: All camera recorder models are equipped. Dedicated cord supplies power to the remote control and a composite video to confirm the menu. Camera remote operation is enabled with the optional AG-EC4G Extension Remote Control Unit or AK-HRP200G Remote Operation Panel.
- IP Remote (LAN Terminal): All camera recorder models are equipped. Remote operation, including menu settings. is possible by using the optional AK-HRP200G Remote Operation Panel.
- iPad Remote: All camera recorder models are compatible. P2 ROP APP (downloadable for free from the App Store) for the following iPad*1 wireless remote control operations: picture quality setting, rec start/stop, clip thumbnail display and proxy preview, metadata display and editing.
- * For all remote controllers, only functions that are supported by each camera recorder can be controlled.
- *1: It supports iOS 12.
- · The Apple App Store and iPad are service marks or trademarks of Apple Inc. registered in the United States and other countries







Picture simulated

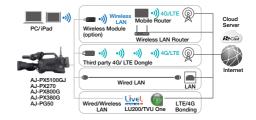
Advanced Network Functions Support Streaming and File Transfer

Single Dongle, Flexible Network Connection

Proxy preview, camera remote, and playlist editing can all be done on a PC. Mac. or tablet connected to wireless LAN. When connected to the internet, files can be transferred and live streaming can be done. Nimble operation is possible using single dongle of the Wireless Module (optional: AJ-WM50/WM50G, AJ-WM30 or third party products. Wired LAN connection and LiveU/TVU bonding services are also supported. The connection method is selected to match the usage environment.

RTMP/RTSP Compatible Full-HD Streaming

Full-HD streaming is possible while images are being acquired. Both RTSP and RTMP streaming methods are compatible. And Facebook, YouTube, and other streaming services are supported. A unique QoS (Quality of Service) mode*1 optimizes the bit rate according to the network conditions for stable streaming distribution. High performance is also achieved by linking to P2SS (streaming server).*2

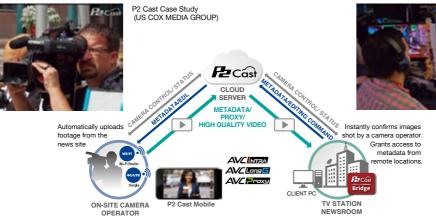


- * For details, see, "Streaming Mode" and "Streaming Output;" and "Notes Regarding Network Functions.
- * It may not be possible to deliver streaming from the unit when services such as Facebook or YouTube stopped or discontinued operation for some reason
- *1: P2 Streaming Receiver software (Windows only, not supported by Mac; available free of charge) is required for receiving the QoS mode. *2: A server with the Streaming Receiver Server Kit (Optional: AJ-SRK001G) installed



A Revolutionary Solution to News Operations Achieved by P2 and IoT Technology





By connecting the AJ-PX5100GJ/PX800G/PX380G/ PX270/PG50 to the cloud-based P2 Cast integrated control system, a connectivity that approaches live relay can be achieved with automatic operation and camera control for interviews and other ENG. The system also helps to reduce costs.

*For details, see P2 Cast https://pro-av.panasonic.net/en/p2cast/index.html

Automatic Upload from a P2cam to a Cloud Server Recorded clips are automatically uploaded in the background from a P2cam to a cloud server. The Rec During Upload function also enables recording and playback while transferring data. In the event that the network connection or power is cut off during the data transfer, the transfer operation resumes immediately after the network connection or power is restored. This allows the camera operator to concentrate on shooting without being bothered by uploading operations.



Near-Live Upload

This is a unique P2cam and P2 Cast solution. In the Near Live mode, image data is split into 2-minute files, and those proxy video data files are automatically and sequentially uploaded to the P2 Cast Cloud. The files can be previewed on a web browser. After the shooting/recording is finished, the data is merged into one clip on the P2 Cast Cloud. Then it can be shared on the web.







News Content Web Sharing, Integrated Camera Control

- Allows sharing of proxy clips on the P2 Cast Cloud by multiple staff members.
- Highlight Editing function reduces the time for previewing, editing and obtaining high-res news image
- Monitors camera recorder status and GPS location information
- Enables remote metadata editing and remote camera recorder setting.
- P2 Cast Bridge: Connects directly to nonlinear editors and news systems.
- P2 Cast Mobile App: Connects smartphone cameras to P2 Cast/P2SS.
- * Clips for Interval Rec, Loop Rec, One-Clip Rec, and One-Shot Rec are not automatically transferred. The streaming function also does not operate. *See the following App Store for information on the P2 Cast Mobile operating environment.
- App Store is a registered service mark of Apple Inc.
- iPhone is a registered trademark of Apple Inc. in the U.S. and other countries.



P2 Streaming Server Delivers Full-HD Streaming

- · Provides stable streaming by original QoS technology.
- Features drag & drop and other intuitive GUI operations.
 Manages 1,000
- cameras and monitors 20 cameras/page.
- Allows a maximum of 4 simultaneous streaming outputs.



Display Example



AJ-SRK001
Streaming Receiver Server Kit
(Software Key for Windows; Mac not supported)
'P2SS is a software product (AJ-SRK001 Streaming
Receiver Server Kit) that is installed onto the server. The
customer must provide the server.





AU-XPD3*

Memory Card Drive "expressP2 drive"

expressP2/P2 card slot x 1 | microP2 card supported*2

Thunderbolt™ 3

The expressP2 drive with High-Speed Thunderbolt™ 3 Interface

· Power Source: DC 16 V 3.1 A · Weight: approx. 1.2 kg (2.65 lb) main unit only • AC adapter: Input: AC 100 V - 240 V, 50 Hz/60 Hz, 1.5 A - 0.8 A, Output: DC 16 V 3.75 A • Dimensions (W x H x D): 126 mm x 62 mm x 215.6 mm, excluding protruding parts (4-31/32 inches x 2-7/16 inches x 8-17/32 inches)



AU-XPD1

Memory Card Drive "expressP2 drive

expressP2/P2 card slot x 1 | microP2 card supported*2

USB 3.0/2.0

Drive supports both of expressP2 card and P2 card

• Power Source: DC 5 V 1.8 A • Weight: approx. 280 g (0.62 lb) main unit only · AC adapter: AC 100 V, 50 Hz/60 Hz · Dimensions (W x H x D): 97 mm x 33 mm x 155 mm, excluding protruding parts (3-13/16 inches x 1-5/16 inch x 6-1/8 inches)









AJ-P2E030FG

AJ-P2E060FG AJ-P2E030FG P2 card F series

AJ-P2M064BG

microP2 card B series AJ-P2AD1G*5

Memory Card Adapter

P2 Viewer Plus

Viewing Software

(Download Free/Optional Functions require Licensing Fees)

Supports P2HD. This Windows/Mac utility makes it easy to view and copy P2 files.

AJ-SK001G

Ingesting Function Software Key*7

(Optional, Subject to Licensing Fee)

The ingesting function copies all clips on P2 cards to a storage medium, such as an HDD. During ingesting, the clips are verified for secure copying, with log files created.

Avid NLE P2 Plug-In Software*



AJ-PS001G

Software Key

for AVC-Proxy file import to edit and re-link to Hi-res.

AJ-PS002G



Software Kev

for AVC-Intra 4K and AVC-Intra50/100 P2 file export.

AJ-PS003G



Software Kev

for AVC-LongG P2 file export.

AJ-PS004G

Software Kev

for AVC-LongG file import to edit.

*Please refer to the "service and support" on the Panasonic website (https://pro-av.panasonic.net/).

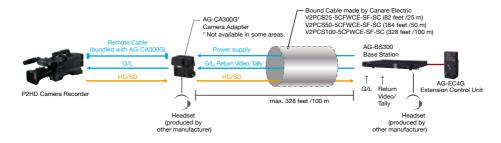
^{*1:} The AU-XPD3 do not support the CPS (Content Protection System). *2: Requires the optional AJ-P2AD1G Memory Card Adapter to use the microP2 card. *3: Connection of the AU-XPD1 requires two USB cables. Power supply to be connected with an AC adaptor or USB 3.0 port of PC. *4: Encoding formats cannot be used because the microP2 Card B Series does not support the CPS (Content Protection System). If the card is mistakenly formatted with a P2 device, card access will be temporarily disabled. It's can be recovered by removing a card from P2 equipment. *5: "AVC-Intra100 of 1080/59.94p,50p recording" and "AVC-Intra200 recording" is not supported. *6: For P2 Viewer Plus download and operating requirement information, see "P2 Viewer Plus" on the Panasonic web site https://pro-av.panasonic.net/en/sales_o/p2/p2viewerplus/ *7: For information on purchasing software keys, see "Service and Support" on the Panasonic web site https://pro-av.panasonic.net/



Camera Recorders and Recorders		AJ-PX5100GJ	AJ-PX800G	AJ-PX380G	AJ-PX270	AJ-PX230	AJ-PD500	AJ-PG50
Camera Adapter	AG-CA300G	✓	✓	✓				
Base Station	AG-BS300	✓	✓	✓				
Extension Control Unit	AG-EC4G	✓	✓	✓				
Remote Operation Panel (ROP)	AK-HRP200G	✓	✓	✓	✓			
Color HD EVF	AG-CVF15G	✓	✓	✓				
38.1 mm (1.5 inches) HD EVF	AJ-CVF50G	✓	✓	✓				
HD/SD LCD Monitor	BT-LH910G	√ *1	√ *1	√ *1				
Stereo Microphone	AJ-MC900G	✓						
Microphone Kit (monaural)	AJ-MC700P		✓	✓				
XLR Microphone (monaural)	AG-MC200G		✓	✓	✓	✓		
Tripod Adaptor	SHAN-TM700	✓	✓	✓				
AVCHD Codec Board	AJ-YCX500G						✓	
Wireless Module	AJ-WM50 AJ-WM50G	√ *2	√ *2	√ *2	√ *2			√ *2
Wireless Module	AJ-WM30	√ *2	√ *2	√ *2	√ *2			√ *2
Battery Pack (11,800 mAh)	AG-VBR118G				✓	✓		✓
Battery Pack (8,850 mAh)	AG-VBR89G				✓	✓		✓
Battery Pack (5,900 mAh)	AG-VBR59				✓	✓		✓
Battery Charger	AG-BRD50				✓	✓		✓
Battery Pack (5,800 mAh)	VW-VBD58				✓	✓		✓
Battery Charger	AG-B23				✓	✓		✓
Rain Cover	SHAN-RC700	✓	✓	✓				
P2 card (F series)	AJ-P2E060FG AJ-P2E030FG	✓	✓	✓	✓		✓	✓
microP2 card (B series)	AJ-P2M064BG	✓	√ *3	✓	✓	✓	✓	✓
SDXC Memory Card		✓	✓	✓	✓	✓	✓	✓
SDHC/SD Memory Card		✓	✓	✓	✓	✓	✓	✓
Memory Card Adapter	AJ-P2AD1G	√ *4	√ *4				√ *4	√ *4

v: It is possible to use it. "A version upgrade may be required for the software version of some camera recorders. For details, please visit the following website. https://pro-av.panasonic.net/ (Service and Support) "1: A mounting bracket (purchased separately) is required to mount on a camera recorder.
"2: For details please visit Panasonic website (https://pro-av.panasonic.net/en/sales_o/p2/server/wireless_module.html)" 3: Memory Card Adapter AJ-P2ADIG

is required. *4: "AVC-Intra100 of 1080/59,94p,50p recording" and "AVC-Intra200 recording" is not supported.





AG-CA300G Camera Adapter * Not available in some areas.



AG-BS300 Base Station



AG-EC4G Extension Control Unit



AK-HRP200G Remote Operation Panel (ROP)



AG-CVF15G 87.6 mm (3.45 inches) Color HD EVF



AJ-CVF50G 38.1 mm (1.5 inches) HD EVF



BT-LH910G 228.6 mm (9 inches) HD/SD LCD monitor



AJ-MC900G Stereo Microphone



AJ-MC700P Microphone Kit



AG-MC200G XLR Microphone



SHAN-TM700 Tripod Adaptor



AJ-YCX500G AVCHD Codec Board



AJ-WM50G NEW Wireless Module*1

* Not available in some areas.



AJ-WM30 Wireless Module*1

* Not available in some areas



Connection Confirmed Wireless Module*1 (including third-party products)



*1: A version upgrade may be required for the software version of some camera recorders. For details please visit Panasonic website (https://pro-av.panasonic.net/en/ sales_o/p2/server/wireless_module.



AG-VBR118G Battery Pack (11,800 mAh)



AG-VBR89G Battery Pack (8,850 mAh)



AG-VBR59 Battery Pack (5,900 mAh)



AG-BRD50 Battery Charger



VW-VBD58 Battery Pack (5,800 mAh)



AG-B23 Battery Charger



SHAN-RC700 Rain Cover
* Not available in some areas.

Operation-Verified 3rd Party Devices

2/3-type CAC Applicable Lenses

The use of Canon, Fujinon and Angenieux lenses with

CAC (Chromatic Aberration Compensation) is recommended.

* For the latest information on CAC applicable lenses, see "Support & Download" on the Panasonic website (https://pro-av.panasonic.net/). The installation of CAC data might be required depending on the lens. Some Angenieux lenses do not support CAC operation. Be sure to specify CAC applicability when purchasing lenses.

Bound Cable for Camera Studio System (Between AG-BS300 and AG-CA300G)

[Canare]

V2PCS25-5CFWCE-SF-SC (82 feet/25 meters) V2PCS50-5CFWCE-SF-SC (164 feet/50 meters) V2PCS100-5CFWCE-SF-SC (328 feet/100 meters) Power Cable for Camera Studio System (Between AG-BS300 and AG-CA300G)

[Canare]

DC50V10-CE01PS-SC (164 feet/50 meters)
DC100V10-CE01PS-SC (328 feet/100 meters)

LiveU LU200

LiveU Portable Uplink Unit

TVU One

TVU Networks Mobile Video Transmission System

Canare Electric CO., Ltd. http://www.canare.co.jp/oversea/mainmenu.html Contract with LiveU is required separately. LiveU: http://www.liveu.tv Contact: info_us@liveu.tv (US & Americas), info@liveu.tv (International)

Recording Codec Specifications

Recording	Digital Video)			Digital Audio		Recording Times*2
Codecs	Sampling Fr	equency	Quantizing	Video Compression	Recording Audio Signal*1	Headroom	Card x 1 (64 GB)
AVC-Intra200	(59.94 Hz) (50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	10 bit	MPEG-4 AVC/ H.264 Intra Profile	48 kHz/24 bit, 16 CH 48 kHz/24 bit, 4 CH		Approx. 32 min.
AVC-Intra100	(59.94 Hz) (50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	10 bit	MPEG-4 AVC/ H.264 Intra Profile	48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH 48 kHz/24 bit, 8 CH 48 kHz/24 bit, 4 CH		Approx. 64 min.
AVC-Intra50	(59.94 Hz) (50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	10 bit	MPEG-4 AVC/ H.264 Intra Profile	48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH 48 kHz/24 bit, 8 CH 48 kHz/24 bit, 4 CH		Approx. 128 min.
AVC-LongG50	(59.94 Hz) (50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	10 bit	MPEG-4 AVC/H.264	48 kHz/24 bit, 8 CH 48 kHz/24 bit, 4 CH		Approx. 128 min.
AVC-LongG25	(59.94 Hz) (50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	10 bit	MPEG-4 AVC/H.264	48 kHz/24 bit, 8 CH 48 kHz/24 bit, 4 CH	12 dB*3/ 18 dB/ 20 dB	Approx. 220 min. Approx. 256 min.
AVC-LongG12	(50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	8 bit	MPEG-4 AVC/H.264	48 kHz/24 bit, 4 CH		Approx. 480 min.
DVCPRO HD	(59.94 Hz) (50 Hz)	Y: 74.1758 MHz PB/PR: 37.0879 MHz Y: 74.2500 MHz PB/PR: 37.1250 MHz	8 bit	DV-Based compression (SMPTE370M)	48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH		Approx. 64 min.
DVCPRO 50	Y: 13.5 MF PB/PR: 6.7		8 bit	DV-Based compression (SMPTE314M)	48 kHz/16 bit, 8 CH 48 kHz/16 bit, 4 CH		Approx. 128 min.
DVCPRO	Y: 13.5 MF PB/PR: 3.3		8 bit	DV-Based compression (SMPTE314M)	48 kHz/16 bit, 4 CH 48 kHz/16 bit, 2 CH		Approx. 256 min.
DV	Y: 13.5 MH PB/PR: 3.3		8 bit	DV Compression (IEC 61834-2)	48 kHz/16 bit, 4 CH 48 kHz/16 bit, 2 CH		Approx. 256 min.

"Each recording codecs differ for every model. Please look at the following table for details. Depending on a model and a codec, upgrade is required. Please go to the Product Information on the Panasonic web page (https://pro-av.panasonic.net/) "1: Each recording audio signal differ for every model. Eight-channel record is impossible for a camera recorder all model. "2: For 1080/60p and 1080/50p, the recording times become 1/2 of those shown above. All of the times apply when single clips are recorded continuously one after the other onto a P2 card. Depending on the number of clips to be recorded, the recordable time may be shorter than the times given. "3: This mode can be chosen only from the AJ-PX270/PX230/PD500/PG50.

Supported Recording Codec by Model

Recording Codecs	AJ-PX5100GJ	AJ-PX800G	AJ-PX380G	
AVC-Intra200	✓			
AVC-Intra100	✓	✓	✓	
AVC-Intra50	✓	✓	✓	
AVC-LongG50	✓	✓	✓	
AVC-LongG25	✓	✓	✓	
AVC-LongG12	✓	✓	✓	
DVCPRO HD	✓	✓	✓	
DVCPRO 50	✓	✓	✓	
DVCPRO/DV	✓	✓	✓	
AVCHD				

Supported AVC-Proxy Recording Mode by Model

Recording Mode	AJ-PX5100GJ	AJ-PX800G	AJ-PX380G	
AVC-G6 2CH MOV	✓	✓	✓	
SHQ 2CH MOV	✓	✓	✓	
HQ 4CH MOV	✓			
HQ 2CH MOV	✓	✓	✓	
LOW 2CH MOV*	✓	✓	✓	
STD 2CH MP4	✓			

^{*}Each Recording modes differ for every model.

^{*1:} Requires the optional AJ-YCX500G AVCHD codec board.

AVC-Proxy Recording Mode Specifications

Recording Mode	Resolution	Video		Audio		
Recording Mode	Resolution	Codec	Bit Rate	Codec	CH	Bit Rate/1CH
AVC-G6 2CH MOV	1080i mode: 1920 × 1080 720p mode: 1280 × 720	H.264 High Profile	6 Mbps	AAC-LC	2 CH	64 kbps
SHQ 2CH MOV	960 x 540	H.264 High Profile	3500 kbps	Linear PCM	2 CH	768 kbps
HQ 4CH MOV	640 x 360	H.264 High Profile	1500 kbps	AAC-LC	4 CH	64 kbps
HQ 2CH MOV	640 x 360	H.264 High Profile	1500 kbps	AAC-LC	2 CH	64 kbps
LOW 2CH MOV*	1080i mode: 480 x 270 480 59.94i mode: 352 x 240 (SIF_NTSC) 576 50i mode: 352 x 288 (SIF_PAL) 1080 60/50p mode: 320 x 180 1080 30/25/24p mode: 480 x 270 720 60/50p mode: 320 x 180 720 30/25/24p mode: 480 x 270	H.264 Baseline Profile 800	800 kbps	AAC-LC	2 CH	64 kbps
STD 2CH MP4	320 x 240 (QVGA)	MPEG-4 Simple Profile	1500 kbps	AAC-LC	2 CH	64 kbps

Each Recording modes differ for every model.

Streaming Mode Specifications (AJ-PX5100GJ/PX800G/PX380G/PX270/PG50)

Mode	Resolution	Frame Rate	Bit Rate	Codec*1
AVC-G6	1920 x 1080*2	30 fps/25 fps	C Mhana	
AVC-G6	1280 x 720*3	60 fps/50 fps	6 Mbps	H.264 High Profile
HQ	640 x 360	30 fps/25 fps	1,500 kbps	
LOW	480 x 270	30 fps/25 fps	800 kbps	H.264 Baseline Profile
A)/C C (O=C)*4	1920 x 1080*2	30 fps/25 fps	Variable depending on the communication bandwidth	LLOCALLink Drofile
AVC-G (QoS)*4	1280 x 720*3	60 fps/50 fps	Maximum 9 Mbps	H.264 High Profile
SHQ (QoS)*4	960 x 540	30 fps/25 fps	Variable depending on the communication bandwidth Maximum 6 Mbps	H.264 High Profile

^{*1:} The audio codec is AAC LC 2ch in all streaming mode. *2: When only the record signal is 1080/59.94i or 1080/50i. *3: When only the record signal is 720/59.94p or 720/50p. *4: The AJ-PX800G/PG50 does not support QoS modes.

AJ-PX270	AJ-PX230	AJ-PD500	AJ-PG50
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
		Playback only*1	

AJ-PX270	AJ-PX230	AJ-PD500	AJ-PG50
✓		✓	✓
✓		✓	✓
		✓	
✓		✓	✓
✓		✓	✓
		✓	



AJ-PX5100GJ

~					
G	е	n	е	r	

Power Supply:	DC 12 V (11.0 V – 17.0 V)
Power Consumption:	29 W
	(body only, 1080/59.94i, AVC-Intra100 standard
	recording status, LCD ON)
	70 W
	(with all optional accessories connected and
	maximum power supplied from each output terminal)
	0°C to 40°C (32°F to 104°F)
	10 % to 85 % (relative humidity)
Storage Temperature:	-20°C to 60 °C (-4°F to 140°F)
Weight:	Approx. 3.4 kg (7.5 lbs.)
	(body only, excluding the battery and accessories)
Dimensions:	147 mm (W) x 267 mm (H) x 342 mm (D)
	(5-25/32 inches x 10-1/2 inches x 13-15/32 inches)
	Body only, excluding protrusion
Camera Section	on
Pickup Device:	2/3-type, 2.2 million pixels, MOS x 3
Lens Mount:	2/3-type bayonet
CC Filter:	A: 3200 K, B: 4300 K, C: 5600 K, D: 6300 K
ND Filter:	CLEAR, 1/4, /16, 1/64
Gain Setting:	NORMAL mode:
duin octung.	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB,
	15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB
	HIGH SENS mode:
	-6 dB, -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB,
	15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB
Digital Super Gain:	Selectable from 6 dB, 10 dB, 12 dB, 15 dB,
(DS.GAIN)	20 dB, 24 dB, 28 dB, 34 dB
Super Gain (S.GAIN):	Selectable from 30 dB, 36 dB, 42 dB
Shutter Speed:	[59.94 Hz]
(Preset)	60i/60p mode: 1/100 sec., 1/120 sec., 1/250 sec.,
	1/500 sec., 1/1000 sec., 1/2000 sec., HALF
	30p mode: 1/100 sec., 1/120 sec., 1/250 sec.,
	1/500 sec., 1/1000 sec., 1/2000 sec., HALF
	24p mode: 1/100 sec., 1/120 sec., 1/250 sec.,
	1/500 sec., 1/1000 sec., 1/2000 sec., HALF
	180.0 deg, 172.8 deg, 144.0 deg,
	120.0 deg, 90.0 deg, 45.0 deg
	[50 Hz]
	50i/50p mode: 1/60 sec., 1/120 sec., 1/250 sec.,
	1/500 sec., 1/1000 sec., 1/2000 sec., HALF
	25p mode: 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF
	180.0 deg, 172.8 deg, 144.0 deg,
	100.0 deg, 172.0 deg, 144.0 deg,

Shutter Speed: (Synchro Scan)

Sensitivity:

Image S/N:

60i/60p mode: 1/60.1 sec. to 1/7200 sec. 30p mode: 1/30.1 sec. to 1/3600 sec. 24p mode: 1/24.1 sec. to 1/2880 sec. 50i/50p mode: 1/50.1 sec. to 1/6000 sec. 25p mode: 1/25.1 sec. to 1/3000 sec.

120.0 deg, 90.0 deg, 45.0 deg

Shutter Open Angle: Configurable between 3 deg and 359.5 deg (in 0.5 deg steps)

NORMAL mode: F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)

F10 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i) HIGH SENS mode: F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)

F13 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)
Minimum Subject Illumination:
Approx. 0.004 lx

(F1.4, +42 dB (S.GAIN), +34 dB (DS.GAIN)) 62 dB (standard)

Horizontal Resolution: 1000 TV or higher (center)

Memory Card Recorder Section

Recording Media: P2 card, microP2 card
System Format: 1080/59.94p, 1080/59.94i, 1080/23.98PsF, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i

Recording Format: AVC-Intra200/AVC-Intra100/AVC-Intra50/ AVC-LongG50/AVC-LongG25/AVC-LongG12/ DVCPRO HD/DVCPR050/DVCPRO/DV

formats switchable

Recording Video Signal: 1080/59.94p, 1080/59.94i, 1080/29.97pN, 1080/23.98pN, 720/59.94p, 720/29.97pN, 720/23.98pN, 480/59.94i, 1080/50p, 1080/50i, 1080/25pN,

720/50p, 720/25pN, 576/50i

*Please see 47 – 48 page for Digital Video, Digital Audio and Proxy

Video Input/Output

SDI IN:	BNC x 1
	HD SDI: 3 G: 0.8 V [p-p], 75 Ω
	1.5 G: 0.8 V [p-p], 75 Ω
	SD SDI: 0.8 V [p-p], 75 Ω
	Switch the menu to use as
	<sdi in=""> terminal/return video input terminal/</sdi>
	<genlock in=""> terminal</genlock>
SDI OUT1:	BNC x 1
	HD SDI: 3 G: 0.8 V [p-p], 75 Ω,
	1.5 G: 0.8 V [p-p], 75 Ω
	SD SDI: 0.8 V [p-p], 75 Ω,
SDI OUT2:	BNC x 1
	HD SDI: 3 G: 0.8 V [p-p], 75 Ω,
	1.5 G: 0.8 V [p-p], 75 Ω
	SD SDI: 0.8 V [p-p], 75 Ω
VIDEO OUT:	BNC x 1
	Composite: 1.0 V [p-p], 75 Ω
HDMI OUT:	HDMI x 1 (HDMI type A terminal, not compatible
	with VIERA Link)

Audio Input/Output

AUDIO IN:	XLR x 2, 3-pin, LINE/MIC/MIC +48 V switchable type
(CH1/CH2)	LINE: 4 dBu (-3 dBu/0 dBu/4 dBu selectable menu)
	MIC: -60 dBu (-60 dBu/-50 dBu selectable menu)
	MIC+48 V: Phantom +48 V supported, -60 dBu
	(-60 dBu/-50 dBu selectable menu)
MIC IN:	XLR x 1, 5-pin
	Phantom +48 V (selectable menu),
	-40 dBu (-50 dBu/-40 dBu selectable menu)
Wireless Slot:	25-pin, D-SUB, -40 dBu, 2 CH supported
AUDIO OUT:	XLR x 1, 5-pin, equilibrium low impedance
(CH1/CH2)	4 dBu (-3 dBu/0 dBu/4 dBu selectable menu)
PHONES Out:	Stere o mini jack x 2
Speaker:	20 mm diameter, round x 1

Other Input/Output

Other input/o	utput
GENLOCK IN:	BNC x 1, 1.0 V [p-p], 75 Ω
TC IN:	BNC x 1, 0.5 V [p-p] to 8 V [p-p], 10 kΩ
TC OUT:	BNC x 1, 2.0 V [p-p] ±0.5 V [p-p], low impedance
DC IN:	XLR x 1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)
DC OUT:	4-pin, DC 12 V (DC 11.0 V to 17.0 V),
	maximum output current 1.5 A
REMOTE:	10-pin
LENS:	12-pin
VF:	20-pin
LAN:	100BASE-TX/10BASE-T
USB 2.0 (Device):	Type B connector, 4-pin
USB 3.0 (Host):	Type A connector, 9-pin
USB 2.0 (Host):	Type A connector, 4-pin
LIGHT:	2-pin, DC 12 V (DC 11.0 V to 17.0 V),
	maximum output current 4.5 A
	(up to 50 W equivalent)
LCD Monitor:	3.5-type QHD color monitor (approx. 1560000 dots)

Included Accessories

Shoulder strap, Mount cap

AJ-PX800G

General

Power Supply:	DC 12 V (11.0 V - 17.0 V)
Power Consumption:	22 W (body + AG-YA600G)
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:	Approx. 2.8 kg (6.2 lbs.) body only, excluding the battery and accessories
Dimensions:	144 mm (W) x 267 mm (H) x 350 mm (D) (5-21/32 inches x 10-1/2 inches x 13-25/32 inches) body only, excluding protrusion

Camera Section	on
Pickup Device:	2/3-type 2.2 million pixels, MOS x 3
Lens Mount:	2/3-type bayonet
ND Filter:	CLEAR, 1/4, 1/16, 1/64
Gain Setting:	NORMAL mode: -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB HIGH SENS mode: -6 dB, -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB, 21 dB, 24 dB, 27 dB, 30 dB
Super Gain (S.GAIN)	Selectable from 30 dB, 36 dB, 42 dB
Shutter Speed:	60i/60p mode: 1/60 (OFF) sec., 1/100 sec.,
Shutter Speed: (Preset) Shutter Speed: (Synchro Scan)	ouvoir mode: //ou (OFF) sec., 1/100 sec., 1/100 sec., 1/250 sec., 1/500 sec., 1/500 sec., 1/2000 sec., 1/200 sec., 1/200 sec., 1/200 sec., 1/200 sec., 1/200 sec., 1/250 sec., 1/500 sec., 1/60 sec., 1/1000 sec., 1/250 sec., 1/250 sec., 1/60 sec., 1/1000 sec., 1/250 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., 1/250 sec., 1
	25p mode: 1/25.0 sec. to 1/250.0 sec.
Shutter Speed: (Slow)	60i/60p mode: 1/15 sec., 1/30 sec. 30p mode: 1/15 sec. 24p mode: 1/12 sec. 50i/50p mode: 1/12.5 sec., 1/25 sec. 25p mode: 1/12.5 sec.
Shutter Open Angle:	3.0 deg to 360.0 deg (in 0.5 deg steps, angle display)
Sensitivity:	NORMAL mode: F9 (2000 k, 3200 K, 89.9 % reflection, 1080/59.94i) F10 (2000 k, 3200 K, 89.9 % reflection, 1080/50i) HIGH SENS mode: F12 (2000 k, 3200 K, 89.9 % reflection, 1080/59) F13 (2000 k, 3200 K, 89.9 % reflection, 1080/50i)
Minimum Subject II	lumination: Approx. 0.22 lx (F1.4, +42 dB (S.GAIN))
Image S/N:	62 dB (standard)

Horizontal Resolution: 1000 TV or higher (center)

Memory Card Recorder Section		
Recording Media:	P2 card (for microP2 card: adaptor is required)	
System Format:	1080/59.94i, 1080/23.98psF, 720/59.94p, 480/59.94i, 1080/50i, 720/50p, 576/50i	
Recording Format:	AVC-Intra100/AVC-Intra50/AVC-LongG50/	
	AVC-LongG25/AVC-LongG12/DVCPRO HD/ DVCPRO50/DVCPRO/DV formats switchable	
Recording Video Signal:		

1080/59.94i, 1080/29.97pN, 1080/23.98pN, 720/59.94p, 720/29.97pN, 720/23.98pN, 480/59.94i, 480/29.97p, 1080/50i, 1080/25pN, 720/50p, 720/25pN, 576/50i, 576/25p

Video Input/Output

SDI OUT/IN*:	BNC x 1 1.5 G HD SDI: 0.8 V [p-p], 75 Ω SD SDI: 0.8 V [p-p], 75 Ω
MON OUT:	BNC x 1 (Can be switched to HD SDI/SD SDI/ analog composite on SmartUI.) 1.5 G HD SDI: 0.8 V [p-p], 75 Ω SD SDI: 0.8 V [p-p], 75 Ω Composite: 1.0 V [p-p], 75 Ω
HDMI OUT:	HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

Audio Input/Output

Audio IN:	XLR x 2, 3-pin
	LINE/MIC (switch selection)
	LINE: 0 dBu
	MIC: -50 dBu/-60 dBu (menu selection),
	+48 V ON/OFF (switch selection)
	MIC IN: XLR x 1, 5-pin
MIC IN:	XLR x1, 3-pin
	+48 V supported (selectable menu)
	-40 dBu/-50 dBu/-60 dBu (selectable menu)
Wireless IN:	25-pin, D-SUB, -40 dBu, 2 CH supported
Audio OUT:	Pin jack x 2 (CH1, CH2),
	Output level: 600 Ω, 316 mV
Phones OUT:	3.5 mm diameter stereo mini jack x1
Speaker:	20 mm diameter, round x 1

Other Input/Output		
GENLOCK IN:	BNC x 1, 1.0 V [p-p], 75 Ω	
TC IN/OUT:	BNC x 1, IN/OUT switch selection	
	IN: 0.5 V [p-p] to 8 V [p-p], 10 kΩ	
	OUT: 2.0 V [p-p] ±0.5 V [p-p], Low impedance	
DC IN:	XLR x1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)	
DC OUT:	4-pin, DC 12 V (DC 11.0 V to 17.0 V),	
	maximum output current 1.5 A	
REMOTE:	10-pin	
Lens:	12-pin	
VF:	20-pin	
LAN:	100BASE-TX/10BASE-T	
USB 2.0 (Host):	Type A connector, 4-pin	
USB 2.0 (Device):	Type B connector, 4-pin	
USB 2.0 (Sub Host)	:Type A connector, 4-pin (exclusively for	
	wireless module AJ-WM50/WM50G/WM30)	

Included Accessories

Shoulder strap, Mount cap

^{*}Please see 47 – 48 page for Digital Video, Digital Audio and Proxy Specifications.

^{*} The optional AJ-YA600G SDI board is required.



AJ-PX380G

~					
G	е	n	е	r	

Power:	DC 12 V (11.0 V - 17.0 V)
Power Consumption:	19 W (body only, 1080/60i, AVC-Intra 100 standard recording status, LCD ON) 58W (with all optional accessories connected and maximum power supplied from each output terminal)
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:	Approx. 2.7 kg (6.0 lb) body only, excluding the battery and accessories
Dimensions:	144 mm (W) \times 267 mm (H) \times 348 mm (D) (5-21/32 inches \times 10-1/2 inches \times 13-11/16 inches) body only, excluding protrusion

Camera Unit

Camera Cint	
Pickup Device:	1/3-type 2.2 million pixels, MOS × 3
Lens Mount:	1/3-type bayonet
ND Filter:	1CLEAR, 1/4ND, 1/16ND, 1/64ND
Gain Setting:	NORMAL mode: 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB HIGH SENS mode: -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 15 dB, 18 dB
Super Gain (S.GAIN	I): Selectable from 24 dB, 30 dB, 36 dB
01 0 1	

Shutter Speed: 60i/60p mode: 1/60 (OFF) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec. 30p mode: 1/30 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec.

24p mode: 1/24 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec. 50i/50p mode: 1/50 (OFF) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

25p mode: 1/25 (OFF) sec., 1/50 sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec. 60i/60p mode: 1/60.0 sec. to 1/249.8 sec. Shutter Speed: (Synchro Scan) 30p mode: 1/30.0 sec. to 1/249.8 sec.

24p mode: 1/24.0 sec. to 1/249.8 sec. 50i/50p mode: 1/50.0 sec. to 1/250.0 sec. 25p mode: 1/25.0 sec. to 1/250.0 sec.

60i/60p mode: 1/15 sec., 1/30 sec. Shutter Speed: (Slow) 30p mode: 1/15 sec. 24p mode: 1/12 sec. 50i/50p mode: 1/12.5, 1/25 sec.

25p mode: 1/12.5 sec. Shutter Open Angle: 3.0 deg to 360.0 deg (in 0.5 deg steps, angle display) Sensitivity:

NORMAL mode: F8 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i) F9 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i) HIGH SENS mode: F11 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)

F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i) Horizontal Resolution: 1000 TV or higher (center)

Memory Card Recorder

Recording Media:	P2 card x 1, microP2 card x 2
System Format:	1080/59.94p, 1080/59.94i, 1080/23.98psF,
	720/59.94p, 480/59.94i,
	1080/50p, 1080/50i, 720/50p, 576/50i
Recording Format:	AVC-Intra100/AVC-Intra50/AVC-LongG50/
	AVC-LongG25/ AVC-LongG12/DVCPRO HD/

DVCPRO50/DVCPRO/DV formats switchable

Recording Video Signal:

1080/59.94p, 1080/59.94i, 1080/29.97pN, 1080/23.98pN, 720/59.94p, 720/29.97pN, 720/23.98pN, 480/59.94i, 480/29.97p, 1080/50p, 1080/50i, 1080/25pN, 720/50p, 720/25pN, 576/50i, 576/25p

*Please see 47 - 48 page for Digital Video, Digital Audio and Proxy Specifications.

Video Input/Output

SDI OUT1:	BNC×1
	HD SDi (3 G/1.5 G), SD SDI: 0.8 V [p-p], 75 Ω
SDI OUT2/IN:	BNC ×1, SDI OUT2, SDI IN (menu selection)
	(Can be switched to HD SDI/SD SDI on SmartUI.)
	HD SDi (1.5 G), SD SDI: 0.8 V [p-p], 75 Ω
GL IN/VIDEO OUT:	BNC ×1, GENLOCK IN,
	VIDEO OUT (menu selection)
	GENLOCK IN: 1.0 V [p-p], 75 Ω
	VIDEO OUT: Composite, 1.0 V [p-p], 75 Ω
HDMI OUT:	HDMI × 1 (HDMI type A terminal,
	not compatible with VIERA Link)

Audio Input/Output

Audio IN CH1/3 AUDIO IN CH2/4

Audio IN CH1/3,	AUDIO IN CH2/4:
	XLR (3-pin) × 2, LINE/MIC (switch selection)
	LINE: 0 dBu
	MIC: -50 dBu/-60 dBu (menu selection),
	+48 V ON/OFF (switch selection)
MIC IN:	XLR (3-pin) × 1,
	+48 V supported (selectable menu)
	-40 dBu/-50 dBu/-60 dBu (selectable menu)
Wireless IN:	25-pin, D-SUB, -40 dBu, 2 CH supported
Audio OUT:	Pin jack x 2 (CH1, CH2),
	Output level: 600 Ω, 316 mV
Phones OUT:	3.5 mm diameter stereo mini jack ×1
Speaker:	20 mm diameter, round x 1

Other Input/Output

N: 0.5 V [p-p] to 8 V [p-p], 10 kΩ
OUT: 2.0 V [p-p] ±0.5 V [p-p], Low impedance
100BASE-TX/10BASE-T
Type B connector, 4-pin
Type A connector, 4-pin
Type A connector, 4-pin (exclusively for
wireless module AJ-WM50/WM50G/WM30)
XLR × 1, 4-pin, DC 12 V (DC 11.0 V to 17.0 V)
4-pin, DC 12 V (DC 11.0 V to 17.0 V),
maximum output current 1.5 A
10-pin
12-pin
20-pin
111111111

Included Accessories

Shoulder strap, Mount cap

AJ-PX270

General			
Power Supply:	DC 7.2 V (when the battery is used)		
	DC 12 V (when the AC adaptor is used)		
Power Consumption:	19.5 W (when the LCD monitor is used)		
Operating Temperature:	0°C to 40°C (32°F to 104°F)		
Operating Humidity:	10 % to 80 % (no condensation)		
Weight:	Approx. 2.2 kg (4.9 lbs.) body only,		
	excluding lens hood, battery, and accessories		
	Approx. 2.6 kg (5.7 lbs.) including lens hood,		
	supplied battery, and microphone holder		
Dimensions:	176 mm (H) x 171 mm (W) x 329 mm (D)		
	(6-15/16 inches x 6-23/32 inches x 12-15/16 inches)		
	(excluding protrusion)		

Camera Secti	on		
Pickup Device:	1/3-type 2.2 million pixels, MOS solid state image sensor x 3		
Lens:	Optical image stabilizer lens, optical 22x motorized zoom F1.6 to F3.2 (f=3.9 mm to 86 mm) 35 mm conversion: 28 mm to 616 mm (16:9)		
Filter Diameter:	72 mm		
Optical System:	Prism system		
ND Filter:	OFF, 1/4, 1/16, 1/64		
Shortest Shooting	p Distance: 1.1 m from the front lens (M.O.D.) Approx. 0.06 m from front lens (When Macro=On, at wide-end)		
Gain Setting:	I /M/H selector switch		

-3 dB to 18 dB (in 1 dB steps)

(Negative value of gain is only in [HIGH SENS.] mode.) (When assigning [S.GAIN] to the USER button: Switching between 24 dB, 30 dB, and 36 dB)

Color Temperature Setting: ATW, ATW LOCK, A CH, B CH,

preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)

Shutter Speed: [59.94 Hz]

(Preset)

60i/60p mode: 1/60 (shutter off) sec., 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec 30p mode: 1/30 sec., 1/50 (shutter off) sec.,

1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec. 24p mode: 1/24 sec., 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec.,

1/1000 sec., 1/2000 sec. [50 Hz]

50i/50p mode: 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

25p mode: 1/25 sec., 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

Shutter Speed: [59.94 Hz]

(Synchro Scan) 60i/60p mode: 1/60.0 sec. to 1/249.8 sec.

Shutter Speed:

(Slow)

30p mode: 1/30.0 sec. to 1/249.8 sec. 24p mode: 1/24.0 sec. to 1/249.8 sec. [50 Hz] 50i/50p mode: 1/50.0 sec. to 1/250.0 sec.

25p mode: 1/25.0 sec. to 1/250.0 sec. Setting is possible when [VFR]=[OFF] [59.94 Hz]

60i/60p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 1/30 sec. 30p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6sec.,

24p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec.,

1/12 sec. [50 Hz] 50i/50p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec., 1/25 sec.

25p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec.

Shutter Open Angle: 3.0 deg to 180.0 deg to 360.0 deg (in 0.5 deg steps, angle display) Frame Rate: 1080/59.94p: 1/2/4/6/ 9/12/15/18/20/21/22/24/

25/26/27/28/30/32/34/36/40/44/48/54/60 fps (frames per second) 25 steps

1080/50p: 1/2/4/6/9/12/15/18/20/21/22/23/ 24/25/26/27/28/30/32/34/37/42/45/48/50 fps (frames per second) 25 steps

Sensitivity: [HIGH SENS.] mode F11 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)	Sensitivity: [HIGH SENS] mode
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Minimum Subject Illumination: 0.02 lx

Lens Hood:

(F1.6, gain 18 dB, [1S.EXP.], [HIGH SENS.] mode) Digital Zoom: 2x. 5x. 10x

Memory Card Recorder Section Recording Media: microP2 card, P2 card microP2 card slot x 2, P2 card slot x 1 Recording Slot: System Format: 1080/59.94p, 1080/59.94i, 1080/23.98PsF, 720/59.94p, 480/59.94i 1080/50p, 1080/50i, 720/50p, 576/50i Recording Format: AVC-Intra200/AVC-Intra100/AVC-Intra50/ AVC-LongG50/AVC-LongG25/AVC-LongG12/ DVCPRO HD/DVCPRO50/DVCPRO/DV formats Recording Video Signal: 1080/59.94p, 1080/59.94i, 1080/29.97pN,

Hood with lens cover

*Please see 47 - 48 page for Digital Video, Digital Audio and Proxy Specifications.

1080/23.98pN, 720/59.94p, 720/29.97pN, 720/23.98pN, 480/59.94i, 480/29.97p 1080/50p, 1080/50i, 1080/25pN 720/50p, 720/25pN, 576/50i, 576/25p

Video Input/Output

SDI OUT:	BNC x 1, HD (3 G/1.5 G), SD: 0.8 V [p-p], 75 Ω
VIDEO OUT:	BNC x 1, Also used as the GENLOCK IN, IN/OUT switch selection Composite: 1.0 V [p-p], 75 Ω
HDMI OUT:	HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

Audio Input

Built-in Microphone:	Supports stereo microphone
AUDIO INPUT 1/AU	IDIO INPUT 2:
	XLR x 2, 3-pin.Input high impedance,
	LINE/MIC switch selection
	LINE: 4 dBu/0 dBu (selectable menu)
	MIC: -40 dBu/-50 dBu/-60 dBu (selectable menu)
	+48 V ON/OFF (switch selection)

Audio Output

AUDIO OUT:	3.5 mm diameter stereo mini jack x 1, Output level: 600 Ω , 316 mV
Headphones:	3.5 mm diameter stereo mini jack x 1 100 Ω , –16 dBV (32 Ω load, at maximum output level)
Speaker:	20 mm diameter, round x 1

Other Input/Output

CAM REMOTE:	2.5 mm diameter super mini jack x 1 ZOOM S/S 3.5 mm diameter mini jack x 1 FOCUS IRIS
GENLOCK IN:	BNC x 1, also used as the VIDEO OUT, IN/OUT switch selection, 1.0 V [p-p], 75 Ω
TC IN/OUT:	BNC x 1, Used as the input and output terminals, IN/OUT switch selection Input: 1.0 V [p-p] to 4.0 V [p-p], 10 k Ω Output: 2.0 V [p-p] \pm 0.5 V [p-p], low impedance
LAN:	100BASE-TX/10BASE-T
USB 2.0 (Device):	Type miniB connector, 4-pin
USB 3.0 (Host):	Type A connector, 9-pin
USB 2.0 (Sub-Host):	Type A connector, 4-pin (exclusively for wireless module AJ-WM50/WM50G/WM30)
DC IN 12 V:	DC 12 V (DC 10.5 V - 13.5 V), EIAJ type 4
Monitor and Vi	audindon

Monitor and Viewfinder

LCD Monitor:

CD Monitor:	3.5-type QHD color monitor (approx. 1560000 dots)
liewfinder:	0.5-type OLED (organic EL display) (Approx. 2360000 dots, video display area: Approx. 1770000 dots)

Included Accessories

Battery (VW-VBD58), Shoulder strap, Battery charger, AC adaptor, Microphone holder, Screw for microphone holder (12 mm), Power code x 2, Eye cup, Lens hood, Grip belt



AJ-PX230

Power Supply:	DC 7.2 V (when the battery is used)
,	DC 12 V (when the AC adaptor is used)
Power Consumption:	19.5 W (when the LCD monitor is used)
Operating Temperature:	0°C to 40°C (32°F to 104°F)
Operating Humidity:	10 % to 80 % (no condensation)
Weight:	Approx. 2.2 kg (4.9 lbs.) body only,
	excluding lens hood, battery, and accessories
	Approx. 2.6 kg (5.7 lbs.) including lens hood,
	supplied battery, and microphone holder
Dimensions:	176 mm (H) x 171 mm (W) x 329 mm (D)
	(6-15/16 inches x 6-23/32 inches x 12-15/16 inches)
	(excluding protrusions)

Camera Section	
Pickup Device:	1/3-type 2.2 megapixels,
	MOS solid state image sensor x3
Lens:	Optical image stabilizer lens,
	optical 22x motorized zoom
	F1.6 to F3.2 (f=3.9 mm to 86 mm)
	35 mm conversion: 28 mm to 616 mm (16:9)
Filter Diameter:	72 mm
Optical System:	Prism system
ND Filter:	OFF, 1/4, 1/16, 1/64
Shortest Shooting	Distance:
	1.1 m from the front lens (M.O.D.)
	Approx. 0.06 m from front lens
	(When Macro=On, at wide-end)
Gain Setting:	L/M/H selector switch.

-3 dB to 18 dB (in 1 dB steps) (Negative value of gain is only in [HIGH SENS.] mode.) (When assigning [S.GAIN] to the USER button: Switching between 24 dB, 30 dB, and 36 dB)

Color Temperature Setting

Shutter Speed:

ATW, ATW LOCK, A ch, B ch preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K) [59.94 Hz] 60i/60p mode: 1/60 (shutter off) sec.,

(Preset) 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec.,

1/1000 sec., 1/2000 sec. 30p mode: 1/30 sec., 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

24p mode: 1/24 sec., 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

[50 Hz]

50i/50p mode: 1/50 (shutter off) sec., 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec

25p mode: 1/25 sec., 1/50 (shutter off) sec. 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec.

Shutter Speed: [59.94 Hz] (Synchro Scan)

60i/60p mode: 1/60.0 sec. to 1/249.8 sec. 30p mode: 1/30.0 sec. to 1/249.8 sec. 24p mode: 1/24.0 sec. to 1/249.8 sec. [50 Hz]

50i/50p mode: 1/50.0 sec. to 1/250.0 sec. 25p mode: 1/25.0 sec. to 1/250.0 sec.

Shutter Speed: Setting is possible when [VFR]=[OFF] [59.94 Hz] (Slow) 60i/60p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/15 sec., 1/30 sec.

30p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6sec.,

24p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec.

[50 Hz] 50i/50p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec., 1/25 sec.

25p mode: 1/1 sec., 1/2 sec., 1/4 sec., 1/6 sec., 1/12 sec.

Shutter Open Angle: 3.0 deg to 180.0 deg to 360.0 deg (in 0.5 deg steps, angle display)

Frame Rate: 1080/59.94p: 1/2/4/6/ 9/12/15/18/20/21/22/24/ 25/26/27/28/30/32/34/36/40/44/48/54/60 fps (frames per second) 25 steps 1080/50p: 1/2/4/6/9/12/15/18/20/21/22/23/ 24/25/26/27/28/30/32/34/37/42/45/48/50 fps (frames per second) 25 steps

Sensitivity: [HIGH SENS.] mode F11 (2000 lx, 3200 K, 89.9 % reflection, 1080/59.94i)

F12 (2000 lx, 3200 K, 89.9 % reflection, 1080/50i)

Minimum Subject Illumination:

Lens Hood:

(F1.6, gain 18 dB, [1S.EXP.], [HIGH SENS.] mode) Digital Zoom: 2x. 5x. 10x Hood with lens cover

Memory Card Recorder Section

Recording Media: microP2 card Recording Slot: microP2 card slot x 2 System Format: 1080/59.94p, 1080/59.94i, 1080/23.98PsF, 720/59.94p, 480/59.94i,

1080/50p, 1080/50i, 720/50p, 576/50i Recording Format: AVC-Intra200/AVC-Intra100/AVC-Intra50/

AVC-LongG50/AVC-LongG25/AVC-LongG12/ DVCPRO HD/DVCPRO50/DVCPRO/DV formats

Recording Video Signal

1080/59.94p, 1080/59.94i, 1080/29.97pN, 1080/23.98pN, 720/59.94p, 720/29.97pN, 720/23.98pN, 480/59.94i, 480/29.97p 1080/50p, 1080/50i, 1080/25pN 720/50p, 720/25pN, 576/50i, 576/25p

*Please see 47 - 48 page for Digital Video and Digital Audio Specifications.

Video Input/Output

SDI OUT:	BNC × 1, HD (3 G/1.5 G), SD: 0.8 V [p-p], 75 Ω
HDMI OUT:	HDMI × 1 (HDMI type A terminal, not compatible
	with VIFRA Link)

Audio Input

Built-in Microphone: Supports stereo microphone
AUDIO INPUT 1/AUDIO INPUT 2:
XLR x 2, 3-pin.Input high impedance,
LINE/MIC switch selection
LINE: 4 dBu/0 dBu (selectable menu)
MIC: -40 dBu/-50 dBu/-60 dBu (selectable menu),
+48 V ON/OFF (switch selection)

Audio Output

Headphones:	3.5 mm diameter stereo mini jack x 1 100 Ω , –16 dBV (32 Ω load, at maximum output level)	
Speaker:	20 mm diameter, round x 1	

Other Input/Output

	2.5 mm diameter super mini jack x 1 ZOOM S/S 3.5 mm diameter mini jack x 1 FOCUS IRIS
USB 2.0 (Device):	Type miniB connector, 4-pin
USB 2.0 (Sub-Host):	Type A connector, 4-pin
	(exclusively for maintenance)
DC IN 12 V:	DC 12 V (DC 10.5 V - 13.5 V), EIAJ type 4

Monitor and Viewfinder

LCD Monitor:	3.5-type QHD color monitor (Approx. 1560000 dots)
Viewfinder:	0.5-type OLED (organic EL display) (Approx. 2360000 dots. video display area:
	Approx. 1770000 dots)

Included Accessories

Battery (VW-VBD58), Shoulder strap, Battery charger, AC adaptor, Microphone holder, Screw for microphone holder (12 mm), Power code x 2, Eye cup, Lens hood, Grip belt

AJ-PD500

General		
Power Source:		, 50 Hz/60 Hz, 45 W included option)
Operating Temperature:		
Operating Humidity:		
Storage Temperature:		
Weight:		(8.05 lbs) (main unit only)
Dimensions:	210 mm (W) x 1 (8-9/32 inches x	25.5 mm (H) x 253 mm (D) 4-15/16 inches x 9-31/32 inches) ne Handle, set foot,
Recording Media:	P2 card, microF	2 card
Recording Formats:	AVC-LongG50/	VC-Intra100/AVC-Intra50/ AVC-LongG25/AVC-LongG12/ VCPRO50/DVCPRO/DV
Proxy:	MOV (QuickTi Video Compres MPEG4 Simp	sion Formats: le Profile, aseline Profile, gh Profile
Video Recording Si		
	1080/29.97PsF, 1080/24PsF, 10	
Audio Recording S	ignals:	•
· ·	AVC-Intra200/A	VC-LongG50/AVC-LongG25: 48 kHz, 24 bit, 8 CH
	AVC-LongG12: AVC-Intra100/A	48 kHz, 24 bit, 8 CH
	DVCDDO HD:	48 kHz, 16 bit, 8 CH

Video Specification (Digital Video)

DVCPRO HD:

DVCPRO 50:

DVCPRO/DV:

Sampling	_	

AVC-Intra200/AVC-Intra100/AVC-LongG50/ AVC-LongG25/DVCPRO HD: (59.94 Hz) Y: 74.1758 MHz, PB/PR: 37.0879 MHz (50 Hz) Y: 74.2500 MHz, PB/PR: 37.1250 MHz AVC-Intra100/AVC-LongG25 (1080/59p) Y: 148.3516 MHz, PB/PR: 74.1758 MHz (1080/50p) Y: 148.5000 MHz, PB/PR: 74.2500 MHz DVCPRO50: Y: 13.5 MHz, PB/PR: 6.75 MHz DVCPRO: Y: 13.5 MHz, PB/PR: 3.375 MHz Quantizing: AVC-Intra200/AVC-Intra100/AVC-Intra50/ AVC-LongG50/AVC-LongG25: 10 bit AVC-LongG12/DVCPRO HD/ DVCPRO50/DVCPRO/DV: 8 bit Video Compression Methods:

AVC-Intra200/AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile AVC-LongG50/AVC-LongG25/AVC-LongG12/: MPEG-4 AVC/H.264 High Profile DVCPRO HD: DV-Based Compression (SMPTE ST 370) DVCPRO50/DVCPRO: DV-Based Compression (SMPTE ST 314) DV Compression (IEC 61834-2)

48 kHz, 16 bit, 8 CH

48 kHz, 16 bit, 4 CH

48 kHz, 16 bit, 4 CH

Color Sampling:

AVC-Intra200/AVC-Intra100/ AVC-LongG50/AVC-LongG25: Y: PB: PR = 4: 2: 2

Resolution:	AVC-Intra100/AVC-LongG25/AVC-LongG12:
	1920×1080 (1080/59.94p, 1080/50p)
	AVC-Intra200/AVC-Intra100/AVC-LongG50/
	AVC-LongG25/AVC-LongG12:
	1920 x 1080 (1080/59.94i, 1080/50i),
	1280 x 720 (720/59.94p, 720/50p)
	AVC-Intra50:
	1440×1080 (1080/59.94i, 1080/50i)
	960×720 (720/59.94p, 720/50p)

Audio Specification (Digital Audio)

Sampling Frequer	ncy:
	48 kHz (synchronized with video)
Quantizing:	AVC-Intra200/AVC-LongG50/AVC-LongG25: 24 bit AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable) AVC-LongG12//DVCPRO HD/DVCPRO50/ DVCPRO/DV: 16 bit
Headroom:	12 dB/18 dB/20 dB (selectable)
De-emphasis:	T1=50 μs, T2=15 μs (ON/OFF auto)
Video Input	
Reference Input:	BNC x 1, Auto switching of black burst/HD 3-value sync
SDI Input:	BNC x 1

Video Output

Monitor Output:	BNC x 1, SD analog composite	
Reference through	n Output:	
_	BNC x 1	
SDI Output:	BNC x 2 (HD/SD switchable)	
SDI Monitor Outp	ut:	
	BNC x 1 (HD/SD switchable)	
HDMI Output*1:	HDMI x 1 (HDMI TypeA terminal),	
•	VIERA Link not supported	

Audio Input

Analog Input:	XLR x 2 (CH1, CH2)
Digital Input:	BNC x 2 (CH1/2, CH3/4), AES/EBU Format
SDI Input:	BNC x 1

Audio Output

BNC x 3
XLR x 2 (CH1, CH2),
Monitor Output (L/R) switchable
BNC x 2 (CH1/2, CH3/4), AES/EBU Format
φ 3.5 mm Stereo Mini Jack x 1,
8 Ω, variable level
2 channels (Linear PCM)
Round x 1 (monaural)

Other Input/Output

o mon mpan o	
Time Code Input:	BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 kΩ
Time Code Output:	BNC x 1, low impedance, 2.0 V [p-p] ±0.5 V [p-p]
REMOTE:	D-SUB 9-pin x 1, RS-422A Interface
PARALLEL REMOT	TE:
	D-SUB 15-pin x 1
LAN:	RJ-45 x 1, 1000BASE-T/100BASE-TX/10BASE-T
USB Host:	USB 3.0 HOST (TYPE A) x 1
USB Device:	USB 2.0 DEVICE (TYPE B) x 1
Keyboard*2:	USB 2.0 (TYPE A) x 1 (maximum 100 mA)

Standard Accessories

AC cable

- *1: HDMI output does not support 480/59.94i and 576/50i. Convert to 480/59.94p and 576/50p for output.
- *2: This port is intended for keyboard connection. If the keyboard draws more than 100 mA, a protective circuit may shut down the unit.

AJ-PG50)					
General						
Power Supply:	DC 7.2 V (during battery use) DC 12 V (during AC Adaptor use)					
Power Consumption						
	e: 0°C to 40°C (32°F to 104°F)					
	y: 10 % to 80 % (non-condensing)					
	: –20°C to 50°C (–4°F to 122°F)					
Weight:	1.1 kg (2.4 lbs)					
Dimensions:	108 mm (W) x 85 mm (H) x 217 mm (D)					
Dimensione.	(4-1/4 inches x 3-3/8 inches x 8-9/16 inches) (Excluding the foot parts and protrusions					
	such as the cap)					
Recording Media:						
Recording Formats	s: AVC-Intra200/AVC-Intra100/AVC-Intra50/ AVC-LongG50/AVC-LongG25/AVC-LongG12/ DVCPRO HD/DVCPRO50/DVCPRO/DV formats selectable					
Proxy:	File Formats:					
•	MOV (QuickTime format)					
	Video Compression Formats:					
	H.264/AVC Baseline Profile,					
	H.264/AVC High Profile					
	Audio:					
	AAC-LC, Linear PCM					
Video Recording	Signals:					
	1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i,					
	720/59.94p, 720/50p, 480/59.94i, 576/50i					
Audio Recording						
	AVC-Intra200/AVC-LongG50/AVC-LongG25:					
	48 kHz, 24 bit, 4 CH					
	AVC-Intra100/AVC-Intra50:					
	48 kHz, 24 bit, 4 CH					
	48 kHz, 16 bit, 4 CH					
	AVC-LongG12: 48 kHz, 16 bit, 4 CH					
	DVCPRO HD: 48 kHz, 16 bit, 4 CH					
	DVCPRO 50: 48 kHz, 16 bit, 4 CH					
	DVCPRO/DV: 48 kHz, 16 bit, 4 CH					
Video Specifi	cation (Digital Video)					
Sampling Frequer						
	AVC-Intra200/AVC-Intra100/AVC-LongG50/					
	AVC-LongG25/DVCPRO HD:					
	(59.94 Hz) Y: 74.1758 MHz, PB/PR: 37.0879 MHz					
	(50 Hz) Y: 74.2500 MHz, PB/PR: 37.1250 MHz					
	AVC-Intra100/AVC-LongG25:					
	(1080/59.94p) Y: 148.3516 MHz, PB/PR: 74.1758 MHz					
	(1080/50p) Y: 148.5000 MHz, PB/PR: 74.2500 MHz					
	DVCPRO50: Y: 13.5 MHz, PB/PR: 6.75 MHz					
	DVCPRO: Y: 13.5 MHz, PB/PR: 3.375 MHz					
Quantization:	AVC-Intra200/AVC-Intra100/AVC-Intra50/					
	AVC-LongG50/AVC-LongG25: 10 bit					
	AVC-LongG12/DVCPRO HD/DVCPRO50/					
	DVCPRO/DV: 8 bit					
Video Compression						
	AVC-Intra200/AVC-Intra100/AVC-Intra50:					
	MPEG-4 AVC/H.264 Intra Profile					
	AVC-LongG50/AVC-LongG25/AVC-LongG12:					
	MPEG-4 AVC/H.264 High Profile					
	DVCPRO HD:					
	DV-Based Compression (SMPTE ST 370)					
Color Sampling:	AVC-Intra200/AVC-Intra100/AVC-LongG50/ AVC-LongG25: Y:PB:PR = 4:2:2					
Resolution:	AVC-Intra100/AVC-LongG25/AVC-LongG12:					
	1920 x 1080 (1080/59.94p, 1080/50p)					
	AVC-Intra200/AVC-Intra100/AVC-LongG50/					
	AVC-LongG25/AVC-LongG12:					
	1920 x 1080 (1080/59.94i, 1080/50i)					
	1280 x 720 (720/59.94p, 720/50p)					
	AVC-Intra50:					
	1440 x 1080 (1080/59.94i, 1080/50i)					
	960 v 720 (720/59 94p, 720/50p)					

960 x 720 (720/59.94p, 720/50p)

Audio Specification (Digital Audio)

Sampling Freque	ncy:
	48 kHz (synchronized with video)
Quantization:	AVC-Intra200/AVC-LongG50/AVC-LongG25: 24 bit AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable) AVC-LongG12/DVCPRO HD/DVCPRO50/ DVCPRO/DV: 16 bit
Headroom:	12 dB/18 dB/20 dB (selectable)
De-emphasis:	T1=50 μs, T2=15 μs (ON/OFF auto select)
Video Input	
SDI Input:	BNC x 1
HDMI Input:	HDMI x 1 (HDMI TYPE A connector)

Video Output

SDI Output:	BNC x 1	
HDMI Output*:	HDMI x 1 (HDMI Type A) (VIERA link not supported)	

(VIERA Link not supported, HDCP supported)

Audio Input

Analog Input:	XLR x 2 (CH1, CH2)
SDI Input:	BNC x 1
HDMI Input:	2 channels (Linear PCM), 16 bit

Audio Output

SDI Output:	BNC x 1			
Analog Output (mo	Analog Output (monitor (L/R)):			
	Stereo mini jack (3.5 mm (1/8 inch) dia.)			
Headphone Outpu	t:			
	Stereo mini jack (3.5 mm (1/8 inch) dia.), variable level			
HDMI Output:	2 channels (Linear PCM), 16 bit			
Internal Speaker:	Round x 1 (monaural)			

Other Input/Output

Time Code Input:	BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 kΩ
LAN:	RJ-45 x 1, 100BASE-TX/10BASE-T
USB HOST:	USB 3.0 Host (Type A) x 1
USB Device:	USB 2.0 Device (Type B) x 1

Standard Accessories

Battery pack, AC adaptor/AC cable, Battery charger/AC cable

*When "VIDEO" - "INPUT SEL" is set to "HDMI", video, audio, and other signals from the HDMI output connector will not be output.

AVC-ULTRA Partners

Adobe	-	ASSIMLATE	AUTODESK.		bitcentral 🏭
Blackmagicdesign	calibratec	CDV states	CiNOOA	COLOCFCONT	DALET
DAYANG	DigitalVision	drastic.tv	≡∨⊑	FilmLight	Gyrass valley
harmonic	IBEX	% Imagine	MAIN	matrox ^a Digital Video Solutions	MOG
NEC	NLT No. Clear Technology	** ROHDE&SCHWARE	SAKURA Ei《i	SQQ	sobey
Tektronix	telestream	TOSHIBA Leading Innovation >>>	\vizrt\	YoYotta	

P2 Partners

Adobe	-	ASSIMILATE	AUTODESK.		bitcentral 👪
Blackmagicdesign	calibratec	CDV states	CiNGAA	COLOFFONT	DALET
DAYANG	digital rapids	DigitalVision	drastic.tv	DV Film	≡∨⊑
FilmLight	FOR.	FUJIFILM	grass valley	harmonic	HITACHI Inspire the Next
% Imagine	IMAGINE HADDECTS, NACT	MAIN	matrox' Digital Video Solutions	MOG	mxF@mac
NEC	NLT	RIMAGE	® ROHDEASCHWARE	SAKURA Ei (i	== SeaChange
SQQ	sobey	Tektronix ^a	telestream	TOSHIBA Leading Innovation >>>	VITEC
vizit)	YoYotta		1	1	1

US Only Model



BT-LH1770P

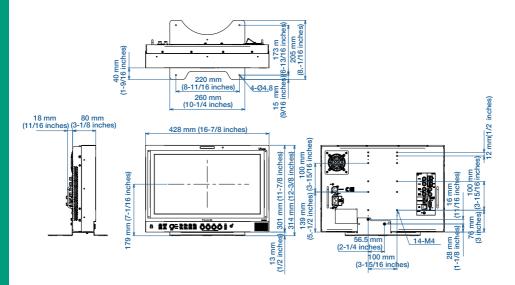
420 mm (16.5 inches)



From the Studio to Live Broadcasting — High-Quality, Full-HD, 16.5-inch Model

- High-contrast 1500:1, 10-bit display with high quality IPS LCD panel for Full-HD resolution.
- Equipped with convenient external USB Memory function for setting data and screen captures.
- CC (Closed Caption) data embedded in the SDI signal can be decoded and displayed.
- Functions such as adjustment assist, versatile display functions, and USB mouse operation.
- · Network functions via a LAN connector.
- Mountable in a 19" rack. Optional stand and brackets are also available.

Dimensions



BT-LH1770P

US Only Model

General

Power Supply:	AC 100 V-120 V, 50 Hz/60 Hz
	AC 200 V-240 V, 50 Hz/60 Hz
	DC 12V (10.5 V-18 V)
Power Consumption	: AC Input: 40 W
	DC (12V) Input: 36 W
Operating Temperature	e: 0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	y: 20 % to 85 % (no condensation)
Storage Temperature	e:-20 °C to 60 °C (-4 °F to 140 °F)
Storage Humidity:	5 % to 85 % (no condensation)
Weight:	Approx. 5.8 kg (12.8 lbs)
	(unit only, not including stand)
Dimensions:	428 mm (W) x 301 mm (H) x 80 mm (D)
	(16-7/8 inches x 11-7/8 inches x 3-1/8 inches)

LCD Panel

42 cm (16.5 V inches) of effective display area
16:9
1920 dots x 1080 dots
1000.7 million colors
178° both of horizontal and vertical

(unit only, not including stand)

0----

Connectors	
Video (VBS) Input:	BNC x 1 (loop-through),
	analog composite (NTSC/PAL-B) signal
SDI Input:	BNC x 2 (3G-SDI/HD SDI/SD SDI),
	embedded audio supported
HDMI Input:	HDMI x 1, HDCP supported,
	embedded audio supported
SDI Output:	BNC x 2*, active through-out

Analog Audio Input:

Ø3.5 stereo mini jack,

0 dBV max (0 dBV=1 Vrms)

Headphone Output: Ø3.5 stereo mini jack type, 85 mW/ch (RL: 32 Ω)

Other Output

Speaker Output: 1W or more

Others

Supplied Accessories:

Operation Manual, Parallel remote connector, AC power cord, Monitor stand, Screw for monitor stand

Optional Accessories







Rack Mount Bracket



BT-MA1774G Rack Mount Bracket (with Tilt Function)

Supported Video Input Formats

Video Input Signal	VIDEO	SDI	HDMI
NTSC	✓		
PAL	✓		
480/59.94i		✓	√ *7
480/59.94p			√ *7
576/50i		✓	✓
576/50p			✓
720/23.98p		✓	
720/24p		✓	
720/25p		✓	✓
720/29.97p		✓	√ *8
720/30p		✓	✓
720/50p		✓	✓
720/59.94p		✓	√ *7
720/60p		✓	✓
1035/59.94i		√ *1	
1035/60i		√ *2	
1080/23.98PsF		√ *3	√ *9
1080/24PsF		√ *4	✓
1080/25PsF		√ *5	√ *5
1080/29.97PsF		√ *6	√ *8
1080/30PsF		✓	✓
1080/50i		✓	✓
1080/59.94i		✓	√ * ⁷
1080/60i		✓	✓
1080/23.98p		✓	✓*9
1080/24p		✓	✓
1080/25p		✓	✓
1080/29.97p		✓	√*8
1080/30p		✓	✓
1080/50p		✓	✓
1080/59.94p		✓	√ *7
1080/60p		✓	✓

- ✓: Supported
- * RGB444 and YCbCr422 (12 bit) are not supported.
- *1: When 1035/59.94i signal is input, images are displayed in 1080/59.94i. In that case, the displayed markers are for 1080/59.94i.
- *2: When 1035/60i signal is input, images are displayed in 1080/60i. In that
- case, the displayed markers are for 1080/60i. *3: When SDI is input at 1080/23.98PsF signal, status display shows as
- 1080/48i. *4: When SDI is input at 1080/24PsF signal, status display shows as
- 1080/48i *5: When 1080/25PsF signal is input, status display shows as 1080/50i.
- *6: When SDI is input at 1080/29.97PsF signal, status display shows as 1080/60i
- *7: When HDMI is input at 59.94i/p signal, status display shows as 60i/p. *8: When HDMI is input at 29.97p signal, status display shows as 30p.
- *9: When HDMI is input at 23.98p signal, status display shows as 24p.

Supported PC Input Signal

HDMI Input	

[:] Supported *Not all frequencies are supported.

^{*}The two outputs can be used as two inputs depending on the setting.

*NOTES REGARDING THE HANDLING OF P2 FILES USING A PC

Mounting and Transferring Files

The PC must be installed with the included P2 driver in order to recognize, copy and transfer P2 files. This driver is also necessary when using the PC card slot and when handling P2 files stored on a hard-disk device, such as P2 store. For other operating requirements, refer to the P2 installation manual. The P2 driver and the P2 installation manual can be downloaded free from a Panasonic website. Visit +othos://pro-av.panasonic.net/en/download/>

Preview and Nonlinear Editing

To preview (play) P2 files on a PC, it is necessary to install P2 Viewer Plus software (downloadable for free, for Windows and Mac), both from Panasonic, or P2-compatible editing software available from other companies (for details, visit ≺https://pro-av.panasonic.net/en/sales_o/p2/partners.html>). Note that each software places specific requirements on the operating environment, and the operating environment must meet additional requirements to play and edit HD content on Windows PCs and Macs. For P2 Viewer Plus download and operating requirement information, visit ≺https://pro-av.panasonic.net/en/download/>. For operating requirements and details of other P2 editing software, visit the website of the relevant software manufacturer.

** Notes Regarding Network Connections

•For 4G/LTE connection: 4G/LTE module is required from a 3rd party. Availability of this function may vary depends on areas. For details, please visit Panasonic website https://pro-av.panasonic.net/en/sales_o/p2/server/4glte.html.

For wireless LAN connection: Wireless module (optional) is required. For the connection confirmed wireless module details please visit Panasonic website -https://pro-av.panasonic.net/en/sales_o/p2/server/wireless_module.html>. For the OS, browser, device compatibility information, see "Service and Support" on the Panasonic website -https://eww.pass.panasonic.co.jp/pro-av/support/content/download/EN/ep2main/soft/wirelesslist_e.htm>.

For streaming: Transfers only to a designated server (one server). The proxy image cannot be recorded while streaming. The streaming function cannot be used together with dual codec recording and simultaneous recording, or with the Rec during Uploading function. For details on downloading and the operating environment of video streaming compatible application software, see "Support & Download" on the Panasonic website http://pro-av.panasonic.net/. For streaming, 4G/LTE USB modern and PC must be able to access directly each other by Public IP (Global IP). Please contact your provider to get Public IP (Global IP). To display the streaming video using P2 browser, player is required (VLC MEDIA PLAYER for Windows PC, QuickTime Player for Mac). P2 Streaming Receiver software (Windows only, not supported by Mac; available free of charge) is required for receiving the QoS mode. Please visit Panasonic website https://pro-av.panasonic.net/#en/download/.

•For LiveU and TVU bonding services: Connection requires communication devices offered by both LiveU and TVU Networks. For details, please visit the following website. https://pro-av.panasonic.net/en/sales_o/p2/bonding_devices/index.html "Connection Confirmed Bonding Devices"

Precautions When Using SDHC/SDXC Memory Cards with the AJ-P2AD1G Memory Card Adapter

Only the DV, DVCPRO, DVCPRO50, and AVC-Intra50 recording formats can be used when using the Memory Card Adapter on P2 Series products. Memory cards of Class 10 or higher are recommended, but recording may not be possible with some cards. •DVCPRO HD and AVC-intra100 cannot be used. •Memory card data capacity must be 4 GB to 128 GB. •Interval Rec, One-Shot Rec, Loop Rec, or One-City Place cannot be used. •If the reading performance is insufficient during playback, frames might be skipped (Best-effort playback). •When copying clips that extend over two SDHC/SDXC memory cards onto another SDXC/SDHC memory card, the connecting relationship between the cards will not be saved. Under certain conditions, the connecting relationship between original and copied SDXC/SDHC memory cards is saved.

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*Specifications are subject to change without notice.

Panasonic

Panasonic Corporation
Connected Solutions Company

2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan



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



For more information, please visit Panasonic web site https://pro-av.panasonic.net/en/qr/



Professional AV Website



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