

AVC-ULTRA and Network Operation Supported.
Shoulder-Type Camera Recorder Provides Easy, Cost Efficient
Broadcast Quality and Functions.



*The UniSlot wireless receiver, viewfinder, microphone and battery pack shown in the photo are optional accessories.

Ultra Lightweight, Ultra High Speed and Ultra High Quality

AVC ULTRA

P2HD

Ultra Lightweight

In addition to its compact, lightweight mobility, the camera section offers 3MOS sensors and versatile features to meet broadcast demands for high picture quality and advanced functions



Compact, Lightweight, 1/3 Shoulder-Type

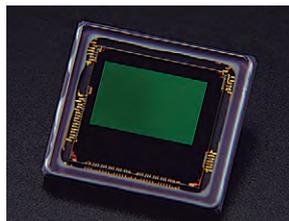
The camera-recorder weighs approximately 2.7 kg (6.0 lb). This combines with the compact body size for excellent mobility in news gathering and other active uses.

1/3-Type Bayonet Mount Interchangeable Lenses

Broadcast and professional 1/3-type zoom lenses available from various manufacturers in a wide range of variations and performance can be used.

High Sensitivity, Low Noise, 1/3-Type 3MOS Sensors

2.2-megapixel 1/3-type 3MOS (RGB) image sensors offer full-pixel HD (1920 x 1080) resolution, F11 (59.94 Hz) or F12 (50 Hz) sensitivity and low noise. They also achieve rich gradation and vibrant color reproduction. The 1/3-type image sensors achieve the same maximum 600% level of dynamic range as other high-end shoulder-type models.

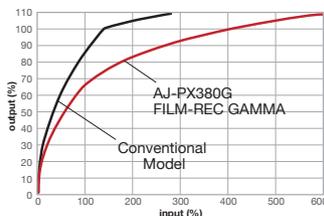


2.2 megapixel 1/3 type 3MOS Image Sensors

600% Dynamic Range

Rich data is captured all the way from highlights to shadows, to render truly realistic images. Features such as color grading also expand post-production flexibility.

- **FILM-REC Gamma:** This function was made possible by the new 600% dynamic range. It achieves a



Comparison of Dynamic Ranges

cinematic latitude that exceeds the CINE-LIKE D mode in our previous 1/3-type camera recorder. Gamma curves can be selected from 7 modes (HD/SD/FILMLIKE 1/FILMLIKE 2/FILMLIKE 3/FILM-REC/VIDEO-REC).

- **DRS (Dynamic Range Stretch):** Suppresses blocked shadows and blown highlights to achieve a visually wide dynamic range.



Dynamic Range 300%

Dynamic Range 600%

High-Quality Image Processing and Versatile Image Settings

- **CAC (Chromatic Aberration Compensation):** When using a CAC compatible lens, the small amount of circumjacent chromatic aberration (circumjacent blur) that is not corrected by the lens is compensated by this process.

- **Advanced Flash Band Compensation (FBC):** This function detects and precisely compensates the flash bands (bands of light and dark) that often occur in cameras equipped with a MOS sensor.

- **Setting Items:** H detail, V detail, detail coring, skin tone detail, chroma level, chroma phase, color correction, master pedestal, knee (auto/manual/off), matrix (norm1/norm2/fluo/cine-like), high color, white clip.

Advanced Focus Assist Functions

A variety of focus assist functions support quick and accurate focusing in manual focus mode.

- **Focus-in-Color:** Emphasizes the image areas in focus by marking the edges in red, green or blue.
- **Expand:** Enlarges the center portion for increased visibility.
- **Focus Bar:** The meter graphically displays the focus level.



Focus-in-Color



Expand

Professional Shooting Functions

- **Scan Reverse:** Displays/records images in vertically or horizontally inverted orientation.
- **Digital Zoom:** 2x/4x digital zoom.
- **Electronic Shutter with Slow Shutter Capability:** The shutter speed can be set in seven steps between 1/60 and 1/2000 second (60i/60p mode). It is also equipped with Slow and Synchro Scan (variable) mode. The shutter opening angle (deg value) can be set with synchro scan mode.
- **Shockless Auto White Balance:** A smooth transition occurs when switching White Balance modes. This is effective, for example, when moving from outdoors to indoors.
- **AWB:** Auto White Balance is equipped with ATW (auto tracking). The AWB selector can be switched between three positions: binary (A/B) memory and preset (3200/5600/VAR).
- **Three-position Gain Selector:** The three-position gain selector can be assigned with gain levels selected from a range of -3 dB* to +18 dB to its L, M and H positions. * -3dB is used for HIGH SENS. mode only.
- **+36 dB Super Gain:** +24 dB/+30 dB/+36 dB Super Gain function enable extra-high sensitivity.
- **Optical ND Filters:** Four-positions (CLEAR, 1/4 ND, 1/16 ND, 1/64 ND).

Built-in Electronic Level Gauge

The electronic level lets you easily confirm camera tilting on the LCD monitor screen. It helps to keep the camera level during handheld shooting, low-angle shooting and high-angle shooting.



Electronic Level Gauge

Color HD Viewfinder/Monitor

The color viewfinder AJ-CVF25GJ is a 3.45-type, 16:9 color LCD with approximately 2,760,000 pixels, for LCD monitor use. The eyepiece can be opened and closed in two directions, enabling viewing from the rear and from the side.



Color HD Viewfinder/Monitor

User Interface "SmartUI"

The user interface consists of an LCD display and multiple switches. Multiple functions can be set easily with minimal operation.



SmartUI

Versatile Shooting Assist Functions

- **User Buttons:** Functions can be assigned to three User Buttons.
- **Scene Files/User Files:** Scene files let you select either of six preset files from the menu on SmartUI according to the shooting situation and up to eight settings can be stored onto an SD memory card.
- **WFM/Vectorscope:** Simplified waveform and vectorscope display.
- **Zebra:** Select any two levels from 0% to 109% in 1% steps.
- **Mode check:** Displays a list of the camera settings.
- **Y-GED:** Measures brightness at center and displays numerical data.
- **Marker:** Displays a center marker, safety zone marker and frame marker.
- **Front mic input volume knob (ON/OFF and CH can be allocated).**



Ultra Quality AVC-ULTRA broadcast codec provides high-quality, 4:2:2 10-bit recording.

FHD Image Acquisition by High-Quality AVC-ULTRA Codecs

The AVC-ULTRA codecs feature high-quality, high-efficiency H.264 based video compression. The main recording can be selected from high-quality AVC-Intra100 with FHD/60p/50p support, AVC-Intra50, or AVC-LongG (50/25/12) for FHD10-bit 4:2:2 with affordable bit rate. While offering a low bit rate suitable for previewing, sub recording AVC-Proxy (proxy data) provides an FHD resolution mode that can be used as is for breaking news and similar applications. * For details, see the table on page 6.



Full Frame Progressive Recording

1080/60p* (50p) full frame progressive recording is supported in the AJ-PX380G. In addition to being able to record with the AVC-Intra100 or AVC-LongG25/LongG12 codec, the AJ-PX380G is capable of camera through output from the SDI OUT 1 terminals.

* 60p is actually recorded at 59.94 Hz.

HD/SD Multi Format/Multi Codec

In addition to 1080/60i, the AJ-PX380G supports 24p, 30p, 60p, and 720p multi HD format and SD recording. 59.94 Hz/50 Hz switchable is convenient for use in productions headed for global use. DVCPRO HD/DVCPRO50/DVCPRO/DV recording is also supported.

* 60i, 60p, 24p and 30p are actually 59.94i, 59.94p, 23.98p and 29.97p.

High-Quality 24 Bit Four Channel Audio Recording

AVC-Intra and AVC-LongG*1 modes support 24 bit/48 kHz/4 CH digital audio recording.*2 (16 bit for AVC-LongG12, DVCPRO HD, DVCPRO 50, DVCPRO and DV). The audio source can be selected for each channel, choosing from mic-in, line-in and wireless receiver.

*1: The AVC-LongG12 mode does not support 24 bit digital audio recording.

*2: The audio signal can be played back by using 24 bit digital audio equipment. For details, refer to "Note Regarding 24 bit Audio" on the back page.

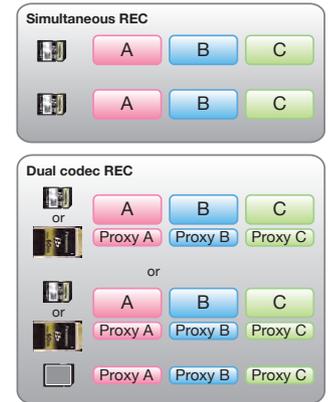
Standard-Equipped microP2*/P2 Card Slots

The AJ-PX380G comes with two slots for microP2 cards* and one P2 card slot. 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.

* The production of microP2 cards have been discontinued. When recording to SD memory cards in P2 format, please use SDXC memory cards with video speed class V90 or faster. Please use the latest version of the camera recorder software.

Multifunctional Recording Including Simultaneous Recording

- **Simultaneous Rec:** Records simultaneously onto two microP2 cards*1 for exceptional safety.
- **Dual-codec recording:** Records a low-rate AVC-Proxy file while recording main data in AVC-Intra/AVC-LongG.*2
- **Hot-Swap Rec:** Thanks to the two card slots, you can hot-swap microP2 cards*1 for continuous non-stop recording. Cards can be swapped and slots can be switched while recording.
- **One-Clip Rec Mode:***2 Records up to 99 consecutive cuts as a single clip.
- **Loop Rec:** Maintains a recording of a certain time period through repeated loop recording by sequentially switching between two microP2 cards.*1
- **Pre Rec:***3 This stores approximately 3 seconds of HD or 7 seconds of SD video and audio data in memory while in standby mode and lets you recover and use the data from the point before you started recording.
- **Interval Rec:** Records intermittently based on a set interval time.
- **One-Shot Rec:** A frame-shot recording function for producing animations.



- **Text Memo:***4 Up to 100 memos can be posted onto a clip as bookmarks.
- **Shot Marker:***4 Used to mark clips as OK, NG, etc.
- **Rec Check:** This lets you run a quick playback check of the clip-end.
- **Metadata:** Data with information such as operator's name, reporter's name, shooting location, and text memos can be added via an SD Memory Card.

*1: The production of microP2 cards have been discontinued. When recording to SD memory cards in P2 format, please use SDXC memory cards with video speed class V90 or faster. Please use the latest version of the camera recorder software.

*2: microP2 and P2 cards cannot be simultaneously recorded on.

*3: Not available in 24p, 25p and 30p recording modes.

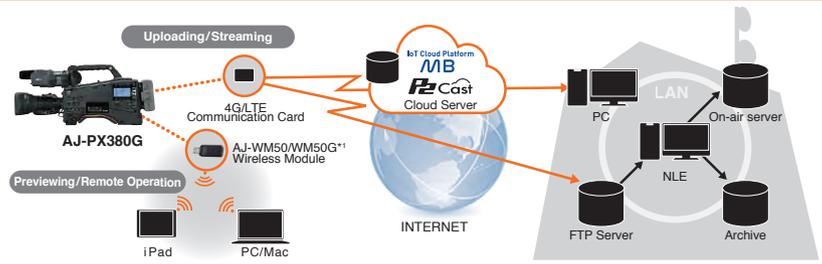
*4: Shot marker and text memo cannot be used in Loop Rec, Interval Rec, or One-Shot Rec.



Ultra High Speed

Network functions** enable automatic file transfers and on-air streaming to expedite news gathering and image acquisition workflows.

- Clips are automatically uploaded to an FTP server while recording (Rec during Uploading).
- Stable Full-HD images are on-air streamed by a special mode (QoS mode).
- Recorded clips can be previewed and metadata can be checked and edited on a smartphone, tablet, or PC/Mac.
- P2 ROP APP for iPad enables an advanced wireless camera remote function.
- IoT Cloud Platform MB/P2 Cast are provided by Panasonic for broadcast and production use.



** For details, please go to Panasonic web page (<https://pro-av.panasonic.net/en/index.html>) *1: Not available in some areas.

Wired/Wireless LAN Network Functions

The standard LAN port allows network connection via a wired LAN. Wireless LAN connection is also supported by installing an optional AJ-WM50/WM50GJ*1 wireless module. The following remote operations can be performed from a PC/Mac, tablet device, or smartphone.*2

- **Proxy Preview:** Proxy playback, downloads, displays clip information, metadata editing, add and delete shot marks/text memos*3.
- **Camera Remote:** Easy remote operation is possible from various devices by using a web app. The P2 ROP App (available free of charge from the Apple App Store) for iPad enables multifunctional remote operation.
- **Playlist Editing:** Playlists can be created using proxy video with a PC/Mac or tablet. The workflow can be streamlined to be faster by rough editing on location, and then transferring the content files.

*1: Not available in some areas.

*2: For the latest information, see "Service and Support" on the Panasonic web site <<https://pro-av.panasonic.net/en/index.html>>.

*3: Function available may vary depends on the device.



File Transfer and Streaming with 4G/LTE Support

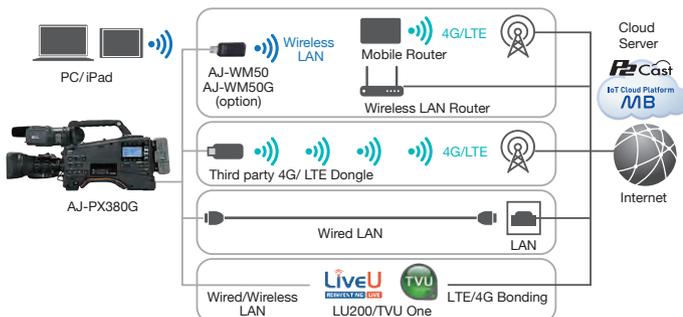
Direct file transfer and streaming is possible from the recorder. In addition to wired and wireless LAN, it supports a wide variety of connection methods, including 4G/LTE (using modules from other manufacturers) and LiveU/TVU bonding connections.

- **File Transfer:** FTP transfer of recorded clips to a network server. AVC-G6 files with low rate and full HD resolution are optimal for breaking news.
- **Streaming:** Live streaming is possible with full HD proxy videos. It supports RTSP, RTMP, and RTMPS streaming methods, making it compatible with Facebook, YouTube, and other streaming services. 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 page 6, "Streaming Mode" and "Streaming Output" and the back page, "Notes Regarding Network Functions."

*1: 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 <<http://pro-av.panasonic.net/en/download/>>.

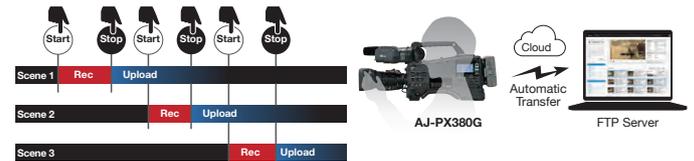
*2: A server with the Streaming Receiver Server Kit (Optional: AJ-SRK001G) installed.



Automatic Transferring: Rec During Uploading Function

Recorded clips are automatically uploaded in the background. The Rec During Upload function also enables recording and playback while transferring data. 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.

* During simultaneous recording, only recorded clips in slot 1 are automatically transferred. Clips of interval recording, loop recording, one-clip recording or one-shot recording are not transferred automatically. The streaming function is disabled while using the Rec during Uploading function.



Compatible with IoT Cloud Platform MB/P2 Cast

Supports linkage with IoT Cloud Platform MB/P2 Cast, a cloud-based reporting, production and distribution solution provided by Panasonic. In addition to being able to control automatic uploading/streaming to cloud servers remotely and share clips in the cloud among multiple staff members, editing can also be done in the cloud. Remote setup allows for centralized management of a large number of equipment and staff. The system improves the immediacy of the process from coverage to delivery, and also contributes to labor savings and cost reduction.

* For details, please visit the panasonic website. IoT Cloud Platform MB <<https://pro-av.panasonic.net/en/products/media-bridge/>> P2 Cast <<https://pro-av.panasonic.net/en/p2cast/index.html>>

3G-SDI Output and HD SDI Input*1

- **SDI OUT 1:** A 3-Gbps speed supports 1080/60p and 50p progressive full frame image output. Allows Rec Start/Stop linked backup recording with a Panasonic recorder equipped with SDI input.
- **SDI OUT 2:** Can be set to HD-SDI or down-converted SD-SDI.
- **SDI IN:** For an external source and return signal input.
- **Other Versatile Connectors:** XLR audio input (2 CH) with +48V Phantom power supply, Audio output (pin jacks, two channels), HDMI OUT, TC IN/TC OUT, GENLOCK IN and USB 2.0 (HOST and DEVICE).
- **UniSlot®*2** compatible wireless receiver slot (two channels).
- Multiple battery brand supported, including Anton Bauer.

*1: 3G output for SDI OUT1 only. SDI OUT2/SDI IN (1.5 G IN/OUT), GENLOCK IN/VIDEO OUT and TC IN/OUT terminals are for both input and output. (Menu Selected)

*2: UniSlot® is a trademark of Ikegami Tsusinki Co., Ltd.

Versatile iPad Remote Control Compatibility

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.

* Only functions that are supported by the AJ-PX380G can be controlled.

*1: It supports iOS12.

• The Apple App Store and iPad are service marks or trademarks of Apple Inc. registered in the United States and other countries.



"P2 ROP App" Control from iPad
Picture simulated

General

Power:	DC 12 V (11.0 V to 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) × 267 mm (H) × 348 mm (D) (5-21/32 inches × 10-1/2 inches × 13-11/16 inches) Body only, excluding protrusion

Camera Unit

Pickup Device:	1/3 type 2.2 million pixels, MOS × 3
Lens Mount:	1/3 type bayonet
ND Filter:	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 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):	Selectable from 24 dB, 30 dB, 36 dB
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.
Synchro Scan Shutter:	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. 50i/50p mode: 1/50.0 sec. to 1/250.0 sec. 25p mode: 1/25.0 sec. to 1/250.0 sec.
Slow Shutter Speed:	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, 1/12.5 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 x1, microP2 card* x2
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
Recording/Playback Time*:	AVC-Intra 100/DVCPRO HD 30 GB x 1: Approx. 30 min., 32 GB x 1: Approx. 32 min. 60 GB x 1: Approx. 60 min., 64 GB x 1: Approx. 64 min. AVC-Intra 50/AVC-LongG 50/DVCPRO50 30 GB x 1: Approx. 60 min., 32 GB x 1: Approx. 64 min. 60 GB x 1: Approx. 120 min., 64 GB x 1: Approx. 128 min. AVC-LongG 25/DVCPRO/DV 30 GB x 1: Approx. 120 min., 32 GB x 1: Approx. 128 min. 60 GB x 1: Approx. 240 min., 64 GB x 1: Approx. 256 min. AVC-LongG 12 30 GB x 1: Approx. 225 min., 32 GB x 1: Approx. 240 min. 60 GB x 1: Approx. 450 min., 64 GB x 1: Approx. 480 min.

These are reference values for continuous recording using the Panasonic products. The recording time may differ depending on the scene or the number of clips.

Digital Video

Sampling Frequency:	AVC-Intra100/AVC-LongG25/AVC-LongG12: Y: 148.3516 MHz, Pb/Pr: 74.1758 MHz (1080/59.94p) Y: 148.5000 MHz, Pb/Pr: 74.2500 MHz (1080/50p) AVC-Intra100/AVC-LongG50/AVC-LongG25/AVC-LongG12/DVCPRO HD: Y: 74.1758 MHz, Pb/Pr: 37.0879 MHz (59.94 Hz) Y: 74.2500 MHz, Pb/Pr: 37.1250 MHz (50 Hz) DVCPRO50: Y: 13.5 MHz, Pb/Pr: 6.75 MHz DVCPRO: Y: 13.5 MHz, Pb/Pr: 3.375 MHz
Quantizing:	AVC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25: 10 bit AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bit
Video Compression Format:	AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile AVC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 DVCPRO HD/DVCPRO50/DVCPRO: DV-Based Compression DV: DV Compression

Digital Audio

Recording Audio Signal:	AVC-Intra100/AVC-Intra50: 48 kHz/16 bit, 4 CH and 48 kHz/24 bit, 4 CH switch AVC-LongG50/AVC-LongG25: 48 kHz/24 bit, 4 CH AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 48 kHz/16 bit, 4 CH
Headroom:	18 dB/20 dB (switchable with menu)

Proxy

Video Compression Format:	H.264/AVC Baseline Profile, H.264/AVC High Profile
Audio Compression Format:	AAC-LC, Linear PCM
Approx. Recording Time*:	AVC-G6 2CH MOV: Approx. 13 min. SHQ 2CH MOV: Approx. 25 min. HQ 2CH MOV: Approx. 78 min. LOW 2CH MOV: Approx. 135 min.

These are reference values for continuous recording using the Panasonic products. The recording time may differ depending on the scene or the number of clips.

Video Input/Output

SDI OUT1:	BNC×1 HD SDi (3G/1.5G), 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 (1.5G), 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:	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 × 2 (CH1, CH2), Output level: 600 Ω, 316 mV
Phones OUT:	3.5 mm diameter stereo mini jack × 1
Speaker:	20 mm diameter, round × 1

Other Input/Output

TC IN/OUT:	BNC×1, IN/OUT (menu selection) IN: 0.5 V [p-p] to 8 V [p-p], 10 kΩ OUT: 2.0 ±0.5 V [p-p], Low impedance
LAN:	100BASE-TX/10BASE-T
USB2.0 (device):	Type B connector, 4 pin
USB2.0 (host):	Type A connector, 4 pin
USB2.0 (sub host):	Type A connector, 4 pin (exclusively for wireless module AJ-WM30)
DC IN:	XLRx1, 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
EVF:	20 pin

Included Accessories

Shoulder strap, Mount cap

* The production of microP2 cards have been discontinued. When recording to SD memory cards in P2 format, please use SDXC memory cards with video speed class V90 or faster. Please use the latest version of the camera recorder software.

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Recording Codecs and Video Formats

Codec	1080							720					480	576
	60p	50p	60i	50i	30pN*1	24pN*2/ 23.98PpF	25pN*3	60p	50p	30pN	24pN	25pN	60i	50i
AVC-Intra100	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—
AVC-Intra50	—	—	✓	✓	—	—	—	✓	✓	—	—	—	—	—
AVC-LongG50	—	—	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—
AVC-LongG25	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—
AVC-LongG12	✓	✓	✓	✓	✓	✓	✓	✓	✓	—	—	—	—	—
DVCPRO HD	—	—	✓	✓	—	—	—	✓	✓	—	—	—	—	—
DVCPRO 50	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓
DVCPRO	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓
DV	—	—	—	—	—	—	—	—	—	—	—	—	✓	✓

*"✓" are supported, and "—" are not supported. *1: 1080/29.97p over 59.94p output *2: 1080/23.98p over 59.94p output *3: 1080/25p over 50p output

AVC-Proxy Recording Modes and Recording Signals

Recording Mode**	Video			Audio		
	Resolution	Codec	Bit Rate	Codec	CH	Bit Rate/1 CH
AVC-G6 2CH MOV	1080i mode: 1920 x 1080 720p mode: 1280 x 720	H.264 High Profile	6 Mbps*5	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 2CH MOV	1080i mode: 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)	H.264 Baseline Profile	800 kbps	AAC-LC	2 CH	64 kbps

*4: Some recording modes are not supported depending on the main recording format. *5: For 720/30pN, 720/24pN or 720/25pN, the bit rates become 3 Mbps.

Recording Format and Streaming Output

Recording Signal	Recording Codec	HD Streaming Mode AVC-G6, AVC-G (QoS)	SD Streaming Mode HQ, LOW, SHQ (QoS)
1080/59.94i	AVC-Intra100	✓	✓*
1080/50i	AVC-Intra50	—	✓*
720/59.94p	AVC-LongG50	✓	✓*
720/50p	AVC-LongG25	✓	✓*

*"✓" are supported, and "—" are not supported. * [LOW] cannot be selected when 720 mode.

Streaming Mode Specifications

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

Optional Accessories



AJ-CVF70GJ
1.78 cm (0.7 inches)
Full HD OLED
Color Viewfinder



AJ-CVF25GJ
87.6 mm (3.45 inches)
Electronic HD
Color Viewfinder



AJ-CVF50G
38.1 mm (1.5 inches)
Viewfinder



AJ-MC700P
Microphone Kit



AG-MC200G
XLR Microphone



AJ-WM50
AJ-WM50G
Wireless Module
*Not available in some areas



AK-HRP250GJ
Remote Operation
Panel (ROP)



SHAN-TM700
Tripod Adaptor



SHAN-RC700
Rain Cover
*Not available in some areas



P2 ROP App
Downloadable for free
from the App Store.



AJ-P2E060FG
AJ-P2E030FG
Memory Card
"P2 card F series"



AJ-P2M064BG
(Stock Limited)
Memory Card
"microP2 card B series"*1



AU-XPDI
Memory Card Drive
"P2 drive"*2
For expressP2 card, P2
card and microP2 card*1

USB 3.0/2.0



AJ-P2AD1G
Memory Card Adapter
A conversion adapter for
using the microP2 card*1
in the AU-XPDI drive.

*1: The production of microP2 cards have been discontinued. When recording to SD memory cards in P2 format, please use SDXC memory cards with video speed class V90 or faster. Please use the latest version of the camera recorder software.

*2: Connection of the AU-XPDI requires two USB cables. Power supply to be connected with an AC adaptor or USB 3.0 port of PC. Requires the optional AJ-P2AD1G Memory Card Adapter to use the microP2 card.

For "Notes regarding the handling of P2 files using a PC," "Notes regarding network connections," "Precautions for using SDHC/SDXC memory cards with a memory card adapter," and "Note regarding 24 bit audio," please refer to the Panasonic web site <<https://pro-av.panasonic.net/en/support/notes/p2.html>> "Notes when using P2 series".



*"P2HD", "AVC-Intra", "AVC-LongG", "AVC-Proxy", "DVCPRO HD", "DVCPRO 50" and "DVCPRO" logos are registered trademarks of Panasonic Corporation. SDHC logo and SDXC logo are trademarks of SD-3C, LLC. Quick Time is a trademark of Apple, Inc., registered in the U.S. and other countries.

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Factories of Panasonic Connect Co., Ltd. have received ISO14001:2015-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/>



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