

Panasonic

AJ-CX4000GJ

Memory Card Camera Recorder

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

New-Generation Shoulder Camera-Recorder Featuring Outstanding
4K/HDR Picture Quality and Advanced Networking Functions

CREATIVITY  CONNECTIVITY



Worldwide
Olympic Partner



Worldwide
Paralympic Partner



AVC ULTRA



4K & HDR Images with a Resolution of 2000 TV Lines,

4K 10-Bit 100-Mbps HEVC Codec Recording,

Networking Solutions of Live Streaming and NDI|HX*¹ IP Connection

CREATIVITY ~~X~~ CONNECTIVITY

4K HDR Picture Quality

4K 10-bit HEVC Codec
expressP2 card

Direct Streaming

NDI|HX IP Connection
12G-SDI 4K Output

The AJ-CX4000GJ new-generation Camera Recorder responds to the emerging needs of the broadcasting industry, such as high-quality 4K recording and network distribution, while retaining the broadcast-standard B4 lens mount and shoulder-mount design.

The large-size 11.14 M-pixel image sensor provides a high horizontal resolution of 2000 TV lines for recording of 4K/HDR images. A nimble workflow can be realized by using the HEVC codec for high-efficiency 4K 10-bit recording and the expressP2 card with high transfer speed. What's more, the HD direct streaming function that enables live streaming to social media and the NDI|HX-compatible*¹ IP connection function offer innovative networking solutions.

The AJ-CX4000GJ also supports the AVC-ULTRA codec*² used by the P2HD

Series to permit smooth linkage with existing HD broadcasting systems.

It provides advanced support in various applications such as broadcasting or recording sports events and in the production of documentaries.

*1: NDI|HX, a technology of NewTek, Inc. To use this function, an activation keycode from NewTek is required.

*2: Use an expressP2 card or a microP2 card for recording in P2 format. Conventional P2 cards can not be used.

AVC-Intra200/100/50 codec will be supported in the future with the firmware upgrade.

High-Quality 4K & HDR Pictures with 2000 TV Lines and a Wealth of Camera Functions

Large Sensor and Optical Magnifying System Achieve High-Quality 4K/HDR Shooting



The AJ-CX4000GJ has the Panasonic original optical magnifying system, same as the AK-UC4000 4K studio camera having good reputation for its image quality. If designed 4K image sensor with a 2/3-type size, the pixel size is reduced from the 5.0 microns of HD to 2.5 microns, thereby lowering the image quality and sensitivity. An optical magnifying lens allows the mounting of a large sensor on a 2/3-type lens mount.

AJ-CX4000GJ chooses the image sensor, which secures a pixel size of 4.3 microns to obtain a wide dynamic range and has Dual Native ISO technology to achieve low noise even in dim lighting. This system achieves the following operability and high image quality of the 2/3-type lens and 4K/HDR shooting.

- 2/3-type lens mount secures a deep depth of field.
- 11.14 M-pixel oversampling obtains a horizontal resolution of 2,000 TV lines or more.
- 4K achieves high sensitivity F10 (59.94 Hz)/F11 (50 Hz) in High Sens mode.
- HDR shooting is supported with HLG (Hybrid Log Gamma).
- A newly developed color filter achieves color reproduction that approaches the 3-chip type.

0.005 lx of Minimum Illumination, High-Sensitivity DS Gain

High sensitivity is achieved with DS gain. Combined with master gain, this enables a maximum +76 dB,* for ultrahigh sensitive recording at minimum subject illumination of 0.005 lx.

* With super gain set at F1.4, +42 dB and digital super gain (cumulative mode) at +34 dB.

HDR Shooting Assist Functions

- SDR Monitoring Gamma: Gamma curves for monitoring HLG images with the SDR viewfinder or other SDR monitor.
- HDR/SDR Parallel Output: Dual SDI can output both HDR and SDR simultaneously.
- VF/LCD HDR/SDR Selector: Assignable to the USER button for easy switching between HDR and SDR even during recording.
- Eight mode Gamma: Select from HD/SD/FILMLIKE 1/FILMLIKE 2/FILMLIKE 3/FILM-REC/VIDEO-REC/HLG gamma curves.

* 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-R BT.2100.

High-Definition Touch Panel LCD with an HD720p Display Capability

The standard 3.5-type color LCD with approximately 2.76 M pixels allows for high-definition color monitoring. In addition, the touch panel makes it easy to operate the menu.

2.4-Type Black-and-White Organic EL Display

The 2.4-type black-and-white organic EL display offers high brightness and clearly shows the status information even in outdoor environment, such as the timecode and audio input level.

High Picture Quality with Shooting Assist Functions

- Two Optical Filters: ND and CC, have four positions each.
- Chromatic Aberration Compensation: The small amount of circumjacent chromatic aberration is compensated.
- Dynamic Range Stretcher: Suppresses blocked shadows and blown highlights to achieve a visually wide dynamic range.
- Advanced FBC: High-precision flash band compensation.
- Digital Zoom: 2x/3x/4x digital zoom boost.
- Focus Assist: "Expand", "Peaking" and "Focus Square."
- Shockless AWB: A smooth transition occurs when switching white balance. It is also equipped with an auto tracking white function.
- WFM/Vectorscope: Simplified display on LCD and VF.
- High-Brightness Zebra Display: The zebra pattern can be displayed in white-out areas of the viewfinder image.
- Y-GET: Measures brightness at center and displays numerical data.
- Lens Files: Stores settings for interchangeable lenses.
- Setup Files: It makes color setting easier for multiple cameras.
- Mode Check: Displays a list of the camera settings on VF and LCD.
- Rec Check: This lets you run a quick playback check of the clip-end.
- User Buttons: Functions can be freely allocated to the five User buttons.



* Pictures simulated.

High-Efficiency HEVC Codec and High-Speed expressP2 Card Add Agility to 4K Recording Work

HEVC Codec for High-Image-Quality 4K Recording at Low Bit Rates

The AJ-CX4000GJ is capable of recording in various formats at different compression rates (see the table below). Using the new, high-efficiency codec, HEVC (H.265, LongGOP, 10-bit, 4:2:0, MOV), the AJ-CX4000GJ records high-quality 4K 10-bit images at a 100-Mbps bit rate. Free software, such as the VLC Media Player or QuickTime Player, provides smooth playback on a notebook PC or MacBook.*



* Playback may lack smoothness depending on the PC environment, such as storage and memory devices.

MOV/P2 MXF* File Formats Supported

The AJ-CX4000GJ records MOV files that are highly compatible and easy to use. This file format is the same as that used on Panasonic's AG-CX350 Memory Card Camera Recorder, and supports long file names with up to 20 characters, allowing recorded video clips to be easily managed. And it supports the MXF P2 file format for broadcasting, enabling AVC-Intra or AVC-LongG HD recording.*

*AVC-Intra200/100/50 codec will be supported in the future with the firmware upgrade.

Equipped with expressP2 and microP2 Card Slots

The AJ-CX4000GJ is provided with an expressP2 card slot to accept high-reliability broadcast-application storage media. This enables recording of large data as well as high-speed offloading. In addition, there are two microP2/SDXC memory card slots to achieve low running costs.

* For memory card usage conditions, see the "Recording Media" chart on page 7. Conventional P2 cards cannot be used.



A Host of Recording Functions

Using two microP2 cards, unlimited relay recording* is possible. Simultaneous recording enhance recording reliability. Also provided are pre-REC, internal REC and metadata recording functions.

* If the Relay recording time reaches 10 hours, shooting will temporarily stop, and then automatically restart a few seconds later. If it is recorded in MOV format, the file will be split every 3 hours and recorded.

High-Quality 24-bit Four Channel Audio Recording

It supports 24-bit/48 kHz four channel digital audio recording.* The audio source for each channel can be selected for each channel, choosing from mic-in, line-in and wireless receiver.

* The audio signal can be played back by using 24-bit digital audio equipment. For details, refer to the back page.

Recording Format

| Recording Format | | Pixels | Color Sampling | Bit Depth | Bit Rate | File Format | Audio |
|------------------|----|--------------------------|----------------|-----------|----------|--------------------------|----------------------------------|
| MOV | 4K | 4:2:2 All-Intra 400M | 3840×2160 | 4:2:2 | 10 bit | 400 Mbps (VBR) | 29.97p, 25p, 23.98p |
| | | 4:2:2 Long GOP 150M | 3840×2160 | 4:2:2 | 10 bit | 150 Mbps (VBR) | 29.97p, 25p, 23.98p |
| | | HEVC Long GOP 200M | 3840×2160 | 4:2:0 | 10 bit | 200 Mbps (VBR) | 59.94p, 50p |
| | | HEVC Long GOP 150M | 3840×2160 | 4:2:0 | 10 bit | 150 Mbps (VBR) | 29.97p, 25p, 23.98p |
| | | HEVC Long GOP 100M | 3840×2160 | 4:2:0 | 10 bit | 100 Mbps (VBR) | 59.94p, 50p |
| | | 4:2:0 Long GOP 150M | 3840×2160 | 4:2:0 | 8 bit | 150 Mbps (VBR) | 59.94p, 50p |
| | HD | 4:2:0 Long GOP 100M | 3840×2160 | 4:2:0 | 8 bit | 100 Mbps (VBR) | 29.97p, 25p, 23.98p |
| | | 4:2:2 All-Intra 200M | 1920×1080 | 4:2:2 | 10 bit | 200 Mbps (VBR) | 59.94p, 50p |
| | | 4:2:2 All-Intra 100M | 1920×1080 | 4:2:2 | 10 bit | 100 Mbps (VBR) | 29.97p, 25p, 23.98p, 59.94i, 50i |
| | | 4:2:2 Long GOP 100M | 1920×1080 | 4:2:2 | 10 bit | 100 Mbps (VBR) | 59.94p, 50p |
| | | 4:2:2 Long GOP 50M | 1920×1080 | 4:2:2 | 10 bit | 50 Mbps (VBR) | 29.97p, 25p, 23.98p, 59.94i, 50i |
| P2(MXF) | HD | AVC-Intra200*1 (OP-Atom) | 1920×1080 | 4:2:2 | 10 bit | 200 Mbps (59.94i) | 59.94i, 50i |
| | | | 1280× 720 | 4:2:2 | 10 bit | 200 Mbps (59.94p) | 59.94p, 50p |
| | | AVC-Intra100*1 (OP-Atom) | 1920×1080 | 4:2:2 | 10 bit | 100 Mbps (59.94i)*2 | 59.94p, 50p, 59.94i, 50i |
| | | | 1280× 720 | 4:2:2 | 10 bit | 100 Mbps (59.94p) | 59.94p, 50p |
| | | AVC-Intra50*1 (OP-Atom) | 1440×1080 | 4:2:0 | 10 bit | 50 Mbps (59.94i) | 59.94i, 50i |
| | | | 1280× 720 | 4:2:0 | 10 bit | 50 Mbps (59.94p) | 59.94p, 50p |
| | HD | AVC-Intra422 (OP1b) | 1920×1080 | 4:2:2 | 10 bit | 200 Mbps (59.94p) | 59.94p, 50p |
| | | AVC-LongG50 (OP1b) | 1920×1080 | 4:2:2 | 10 bit | 50 Mbps (59.94i) (VBR) | 59.94i, 50i |
| | | | 1280× 720 | 4:2:2 | 10 bit | 50 Mbps (59.94p) (VBR) | 59.94p, 50p |
| | | AVC-LongG25 (OP1b) | 1920×1080 | 4:2:2 | 10 bit | 25 Mbps (59.94i)*2 (VBR) | 59.94p, 50p, 59.94i, 50i |
| | | | 1280× 720 | 4:2:2 | 10 bit | 25 Mbps (VBR) | 59.94p, 50p |
| | | AVC-LongG12 (OP1b) | 1920×1080 | 4:2:0 | 8 bit | 12 Mbps (59.94i)*2 (VBR) | 59.94p, 50p, 59.94i, 50i |
| | | | 1280× 720 | 4:2:0 | 8 bit | 12 Mbps (VBR) | 59.94p, 50p |

*1: AVC-Intra200/100/50 codec will be supported in the future with the firmware upgrade. *2: The bit rate increases to two times when recorded in 59.94p or 50p.

IP Networking Function Supporting Direct Streaming and NDI|HX

Direct Live Streaming

HD streaming is possible while images are being acquired.*¹ RTSP, RTMP and RTMPS streaming methods are compatible.*²

And Facebook, YouTube, and other streaming services are supported. Multicast streaming is also supported.

*1: There are some conditions under which streaming is not possible, such as when recording in UHD format or using NDI|HX mode.

*2: The P2 Network Setting Software is convenient for setting up the RTMP and RTMPS functions. See the section, "Connection Confirmed Live Video Distribution Services," for the live video streaming services that have been confirmed to be compatible.



Connection Confirmed
Live Video Distribution
Services



Easy IP Connection: NDI|HX Is Enabled When an Optional NDI|HX License Is Purchased from NewTek

A LAN terminal with a lock mechanism is provided. Cable LAN connection enables IP remote control.

The AJ-CX4000GJ is also equipped with 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 the AV-HLC100 Live Production Center and HN/UN series PTZ integrated cameras, the AJ-CX4000GJ realizes end-to-end live video production of live events as well as web distribution.



• NDI|HX, a technology of NewTek, Inc.

* Recording, streaming and 4K output are not available when using 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

12G-SDI OUT Compatible with 4K 10-Bit 4:2:2 Output

The standard 12G-SDI output terminal delivers high-image-quality UHD 60p (50p) 10-bit 4:2:2 output. Also provided are XLR audio input (2 CH) terminals compatible with +48-V phantom power supply as well as HDMI OUT, TC IN/TC OUT, GENLOCK IN, USB3.0 (DEVICE) and USB2.0 (HOST, wireless module) terminals.



Wireless Control from a Tablet or Smartphone

The AJ-CX4000GJ can be controlled remotely and wirelessly using the tablet/smartphone app "CX ROP"**¹ (downloadable for free from the App Store or Google Play). This app allows to display camera information and change camera settings. The settings are easy to see and can be changed by tap-and-slide operation. It is also equipped with a wealth of remote functions for output signal selection, USER button setting, REC S/S and many others. What's more, the app can be used to select the camera to control from up to eight cameras in the CX Series (AJ-CX4000GJ and AG-CX350).

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

**1: iPad: iOS 9 or later are supported. Android devices: Android 5.0 or later are supported. Wireless module (sold separately; AJ-WM50, AJ-WM50G or recommended third-party Wi-Fi dongle) is required.



* Pictures simulated.



CX ROP



Specifications

As of December 2019

General

| | |
|------------------------|---|
| Power: | DC: 12 V (11.0 V – 17.0 V) |
| Power Consumption: | 32 W (body only, 2160-59.94p/HEVC LongGOP 100M standard recording status, LCD ON) 72 W (with all the 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. 3.4 kg (7.5 lbs.) (body only) |
| Dimensions | 143 mm (W) x 267 mm (H) x 348 mm (D) (5-5/8 inches x 10-1/2 inches x 13-23/32 inches) (body only, excluding protrusion) |

Camera Unit

| | |
|-------------------------------|--|
| Pickup Device: | MOSx1 |
| Number of Pixels: | 11.14 million pixels |
| Lens Mount: | 2/3-type bayonet |
| Optical Filter: | CC filter: A: 3200 K, B: 4300 K, C: 5600 K, D: 6300 K ND filter: 1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND |
| Gain Setting: | -6 dB to 30 dB, can be set in 1 dB steps |
| Digital Super Gain: (DS.GAIN) | Selectable from 6 dB, 10 dB, 12 dB, 15 dB, 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] 1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF [50.00 Hz] 1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF |
| Synchro Scan Shutter: | [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. [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 360.0 deg (can be set in 0.5 deg steps) |
| Sensitivity: | [NORMAL] mode F6 (2000 lx, 3200 K, 89.9% reflection, 59.94 Hz) F7 (2000 lx, 3200 K, 89.9% reflection, 50.00 Hz) [HIGH SENS.] mode F10 (2000 lx, 3200 K, 89.9% reflection, 59.94 Hz) F11 (2000 lx, 3200 K, 89.9% reflection, 50.00 Hz) |
| Minimum Illumination: | Approx. 0.005 lx (F1.4, +42 dB (S.GAIN), +34 dB (DS.GAIN)) |
| Image S/N: | 62 dB (standard) |
| Horizontal Resolution: | UHD: 2000 TV or higher (center) HD: 1000 TV or higher (center) |
| Digital Zoom: | x2, x3, x4 |

Memory Card Recorder

| | |
|-------------------------|---|
| Recording Media: | <ul style="list-style-type: none"> expressP2 card microP2 card SDXC memory card (exceeding 32 GB to 128 GB) UHS-I/UHS-II, UHS Speed Class 3 compatible, video Speed Class V90 compatible |
| Recording Slot: | expressP2 card slot x 1 microP2/SDXC UHS-II memory card slot x 2 |
| Recording Pixels: | 3840x2160 (UHD), 1920x1080 (FHD), 1440x1080 (HD)*, 1280x720 (HD) |
| System Frequency: | 59.94 Hz/50.00 Hz |
| Recording Format: | Please see page 4 for the "Recording Format" table. |
| Recording Video Signal: | 3840x2160/59.94p, 50p, 29.97p, 25p, 23.98p 1920x1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i 1440x1080/59.94i, 50i* 1280x720/59.94p, 50p |
| Recording Time: | Please see page 7 for the "Recording Time" table. |
| Two-slot Function: | Simultaneous recording, Relay recording |
| Special Recording: | Pre-recording, Interval recording |

Digital Video

| | |
|----------------------------|--|
| Number of Quantizing Bits: | <ul style="list-style-type: none"> P2: 4:2:2 10 bit/4:2:0 10 bit (AVC-Intra50)*/4:2:0 8 bit (AVC-LongG12) MOV: 4:2:2 10 bit)/4:2:0 8 bit/4:2:0 10 bit (HEVC) |
| Video Compression: | <ul style="list-style-type: none"> P2: AVC-Intra 422/AVC-LongG50/AVC-LongG25/AVC-LongG12: MPEG-4 AVC/H.264 High Profile P2*: AVC-Intra200/AVC-Intra100/AVC-Intra50: MPEG-4 AVC/H.264 Intra Profile MOV: H.264/MPEG-4 AVC High Profile, H.265/MPEG-H HEVC Main10 Profile |

Digital Audio

| | |
|-------------------------|--|
| Recording Audio Signal: | <ul style="list-style-type: none"> P2: 48 kHz/24 bit, 4 CH 48 kHz/16 bit, 4 CH (only AVC-LongG12) MOV: 48 kHz/24 bit, 4 CH |
| Audio Recording Format: | <ul style="list-style-type: none"> P2: LPCM MOV: LPCM |
| Headroom: | 18 dB/20 dB (Can be selected by menu) |

Streaming

| | |
|---------------------|--|
| Video Compression: | H.264/MPEG-4 AVC Main Profile H.264/MPEG-4 AVC High Profile |
| Video Resolution: | 1920x1080 (FHD), 1280x720 (HD), 640x360, 320x180 |
| Streaming Method: | Unicast, Multicast |
| Frame Rate: | [59.94 Hz]: 24 fps, 30 fps, 60 fps [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 |
| Audio Compression: | AAC-LC: 48 kHz/16 bit, 2 CH |
| Supported Protocol: | RTSP/RTP/RTMP/RTMPS |

Video Output

| | |
|-----------|--|
| SDI OUT1: | <ul style="list-style-type: none"> BNCx1 12G-SDI: 0.8 V [p-p], 75 Ω 3G/HD-SDI: 0.8 V [p-p], 75 Ω SDI remote control supported Output format (4:2:1 10 bit) 3840x2160: 59.94p, 50p, 29.97p, 25p, 23.98p 1920x1080: 59.94p, 50p, 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF, 1280x720: 59.94p, 50p |
| SDI OUT2: | <ul style="list-style-type: none"> BNCx1 3G/HD-SDI: 0.8 V [p-p], 75 Ω SD-SDI: 0.8 V [p-p], 75 Ω SDI remote control supported Output format (4:2:2 (10 bit) output) 1920x1080: 59.94p, 50p, 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF 1280x720: 59.94p, 50p, 720x480: 59.94i, 720x576: 50i |
| HDMI: | <ul style="list-style-type: none"> HDMI type Ax1 (not compatible with VIERA Link) HDMI remote control supported Output format (4:2:2 (10-bit) output) 3840x2160: 59.94p, 50p, 29.97p, 25p, 23.98p 1920x1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p 1280x720: 59.94p, 50p, 720x480: 59.94i, 720x576: 50p |

Audio Input/Output

| | |
|-------------------|---|
| AUDIO IN: | <ul style="list-style-type: none"> XLRx2 (CH1/3, CH2/4), 3-pin LINE/MIC/MIC+48V selected by switch LINE: 4 dBu/0 dBu/-3 dBu selected by menu MIC: -40 dBu/-50 dBu/-60 dBu selected by menu MIC+48V: +48 V/OFF compatible |
| MIC IN: | <ul style="list-style-type: none"> XLRx1, 5-pin +48 V ON/OFF selected by menu -40 dBu/-50 dBu/-60 dBu selected by menu |
| Wireless Slot: | 25-pin, D-SUB, -40 dBu, 2ch supported |
| AUDIO OUT: | <ul style="list-style-type: none"> XLRx1, 5-pin 4 dBu/0 dBu/-3 dBu selected by menu, equilibrium low impedance |
| SDI OUT: | LPCM 4 CH |
| HDMI: | LPCM 2 CH |
| PHONES: | 3.5 mm diameter stereo mini jackx2, output impedance 100Ω |
| Built-in Speaker: | 20 mm diameter, roundx1 |

Other Input/Output

| | |
|--------------|--|
| GENLOCK IN: | BNCx1, 1.0 V [p-p], 75 Ω |
| TC IN/OUT: | BNCx1, Used as input/output terminal, switch by menu <ul style="list-style-type: none"> Input: 0.5 V – 8.0 V [p-p], 10 kΩ Output: 2.0 V±0.5 V [p-p], low impedance |
| DC IN: | XLRx1, 4-pin, DC 12 V (11.0 V – 17.0 V) |
| DC OUT: | 4-pin, DC 12 V (11.0 V – 17.0 V), maximum output current 1.5 A |
| LENS : | 12-pin |
| VF: | 20-pin |
| LAN: | RJ-45 XLRnet connector: 1000BASE-T/100BASE-TX/10BASE-T |
| USB2.0 HOST: | Type A connector, 4-pin (5 V, 0.5 A), for attaching the wireless module (optional) |
| USB DEVICE: | USB 3.1 GEN1 type C connector, with USB mass storage function, without USB bus-powered function |
| LIGHT: | 2-pin, DC12 V (DC 11.0 V – 17.0 V), maximum output current 4.5 A (up to 50 W equivalent) |

Monitor/Viewfinder

| | |
|-----------------|--|
| LCD Monitor: | 3.5-inch LCD color monitor: Approx. 2.76 million pixels, touch panel supported |
| Display Window: | 2.4-inch black and white organic EL |

Included Accessories

| |
|---|
| Mount cap (come already attached to the camera), Shoulder strap |
|---|

* Supported by firmware upgrade in the future.

Options

As of December 2019

Options

| | | | | | |
|---|--|---|---|---|--|
|  | AJ-WM50 AJ-WM50G Wireless Module *Not available in some areas |  | AJ-MC900G Stereo Microphone |  | AU-XP0512CG AU-XP0256CG Memory Card "expressP2 card C series" |
|  | Connection confirmed Wireless Module https://pro.av.panasonic.net/en/sales_o/p2/server/wireless_module.html |  | SHAN-TM700 Tripod Adaptor |  | AJ-P2M064BG Memory Card "microP2 card B series" |
|  | AG-CVF15G 87.6 mm (3.45 inches) Color HD EVF Open two ways for LCD monitor viewing |  | SHAN-RC700 Rain Cover *Not available in some areas |  | SDXC Memory Card |
|  | AJ-CVF50G 38.1 mm (1.5 inches) HD EVF | | | | *Conventional P2 cards may not be used. |

Recording Media

| Format | Bit Rate / Recording Function | SDXC Memory Card (Speed Class) | microP2 Card | expressP2 Card | |
|---------|--|--|--|---|--|
| MOV | 400 Mbps | Video Speed Class V60 or faster | B Series microP2 card only | All expressP2 card types can be used in any recording mode supported by the AG-CX4000GJ | |
| | 200 Mbps | Video Speed Class V30 UHS Speed Class 3 or faster | B Series microP2 card and A Series microP2 card 64 GB (32 GB cards cannot be used) | | |
| | 150 Mbps | | | | |
| | 100 Mbps | | | | |
| | 50 Mbps | Video Speed Class V10 UHS Speed Class 1 Speed Class 10 or faster | | | |
| P2 MXF* | All recording modes* ¹ supported by the AJ-CX4000GJ | — (For emergency recording) * ² | All microP2 card types can be used | | |

*1: AVC-Intra200/100/50 codec will be supported in the future with the firmware upgrade. Use an expressP2 card or a microP2 card for recording in P2 format. Conventional P2 cards may not be used. *2: Data can be recorded in the P2 format on SDXC memory cards, but it is not covered under the manufacturer's support.

Recording Time

| Format | 64 GB microP2 Card 64 GB SDXC Memory Card | 128 GB SDXC Memory Card | 256 GB expressP2 Card | 512 GB expressP2 Card |
|---------|---|-------------------------|-------------------------|--------------------------|
| MOV | UHD | 400 Mbps | Approx. 20 min. | Approx. 40 min. |
| | | 200 Mbps | Approx. 40 min. | Approx. 1 hour 20 min. |
| | | 150 Mbps | Approx. 55 min. | Approx. 2 hours 40 min. |
| | | 100 Mbps | Approx. 1 hour 20 min. | Approx. 5 hours 20 min. |
| | FHD | 200 Mbps | Approx. 40 min. | Approx. 2 hours 40 min. |
| | | 100 Mbps | Approx. 1 hour 20 min. | Approx. 5 hours 20 min. |
| | | 50 Mbps | Approx. 2 hours 40 min. | Approx. 10 hours 40 min. |
| P2 MXF* | AVC-Intra422 AVC-Intra200* ¹ | Approx. 32 min. | — | Approx. 2 hours 8 min. |
| | AVC-Intra100* ¹ (1080-59.94i/50i or 720-59.94p/50p)* ² | Approx. 1 hour 4 min. | — | Approx. 4 hours 16 min. |
| | AVC-Intra50* ¹ | Approx. 2 hours 8 min. | — | Approx. 8 hours 32 min. |
| | AVC-LongG50 | Approx. 2 hours 8 min. | — | Approx. 4 hours 16 min. |
| | AVC-LongG25 (1080-59.94i/50i or 720-59.94p/50p)* ² | Approx. 4 hours 16 min. | — | Approx. 17 hours 4 min. |
| | AVC-LongG12 (1080-59.94i/50i or 720-59.94p/50p)* ² | Approx. 8 hours | — | Approx. 34 hours 8 min. |
| | | | | Approx. 64 hours |

*1: AVC-Intra200/100/50 codec will be supported in the future with the firmware upgrade. *2: The recording time decreases to one-half when recorded in 1080-59.94p/50p.

Notes Regarding Network Functions

- **For wireless LAN connection:** The optional wireless module is required. For the OS, browser, device compatibility information, see "Service and Support" on the Panasonic website <<https://pro-av.panasonic.net/>>. Some functions are not supported by some devices.
- **For streaming:** PC must be able to access directly each other by Public IP (Global IP). Please contact your provider to get Public IP (Global IP).

Precautions When Using SDXC Memory Cards

Use an SDXC memory card that conforms to the SDXC standard. Memory cards other than SDXC (such as multimedia cards) cannot be used. Be sure to use this unit for formatting. This unit can use SDXC memory cards with capacities from 64GB to 128GB.

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. 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 <<https://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.

Note Regarding 24 bit Audio

Clips recorded using 24 bit audio must be played back with 24 bit compatible P2 equipment or the P2 Viewer/P2 Viewer Plus. If clips are played back with equipment not compatible with 24 bit audio, the clip number will be indicated in red and the clips will not be played back. A P2 Viewer not compatible with 24 bit audio will not reproduce the sound properly. To play back those clips, use the latest version of P2 Viewer/P2 Viewer Plus. For the latest information on 24 bit compatible P2 equipment and P2 Viewer/P2 Viewer Plus, see "Support & Download" on the Panasonic website <<https://pro-av.panasonic.net/>>.

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*Specifications are subject to change without notice.



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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/>



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