



## 4K HDR ENG Shoulder-Mount Camcorder

# AJ-CX4000GJ

The AJ-CX4000 is the latest addition to the 4K camcorder 'CX Series', which has been introduced to support UHD content acquisition for newsgathering operations, to stream live events, and for sports and documentary capture.

### Key Features

Newly-developed 4.4K sensor for high quality 4K (UHD) image recording with 2000 TV lines

Large single-sensor internal expansion lens imaging system with interchangeable B4 mount

HDR HLG support (compliant with BT.2100 & BT.2020)

Newly-added HEVC 100Mbps codec for ENG (4K 4:2:0 10-bit)

F10 (60 Hz)/F11 (50 Hz) sensitivity in High Sens. Mode

AVC ULTRA





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<https://ap.connect.panasonic.com/vn/en/aj-cx4000gj>

<b>General -&gt; Power Supply</b>	DC 12 V (11.0 V – 17.0 V)
<b>General -&gt; Power Consumption</b>	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)
<b>General -&gt; Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>General -&gt; Operating Humidity</b>	10% to 85% (relative humidity)
<b>General -&gt; Storage Temperature</b>	-20 °C to 60 °C (-4 °F to 140 °F)
<b>General -&gt; Weight</b>	Approx. 3.4 kg (7.5 lbs.) (body only)
<b>General -&gt; Dimensions</b>	W 143 mm x H 267 mm x D 348 mm (5-5/8 inches x 10-1/2 inches x 13-23/32 inches) (body only, excluding protrusion)
<b>Camera Unit -&gt; Image Sensor</b>	MOSx1
<b>Camera Unit -&gt; Number of Pixels</b>	11.14 million pixels
<b>Camera Unit -&gt; Lens Mount</b>	2/3-type bayonet
<b>Camera Unit -&gt; Optical Filter -&gt; CC Filter</b>	A: 3200 K, B: 4300 K, C: 5600 K, D: 6300 K
<b>Camera Unit -&gt; Optical Filter -&gt; ND Filter</b>	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
<b>Camera Unit -&gt; Gain Setting</b>	-6 dB to 30 dB, can be set in 1 dB steps
<b>Camera Unit -&gt; Digital Super Gain (DS.GAIN)</b>	Selectable from 6 dB, 10 dB, 12 dB, 15 dB, 20 dB, 24 dB, 28 dB, 34 dB
<b>Camera Unit -&gt; Super Gain (S.GAIN)</b>	Selectable from 30 dB, 36 dB, 42 dB
<b>Camera Unit -&gt; Shutter Speed -&gt; [59.94i/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF Hz] 59.94i/59.94p mode</b>	
<b>Camera Unit -&gt; Shutter Speed -&gt; [50.00i/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF Hz] 50i/50p mode</b>	
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [59.94 Hz] 59.94i/59.94p mode</b>	1/60.0 sec. to 1/7200 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [50.00 Hz] 50i/50p mode</b>	1/50.0 sec. to 1/7200 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [59.94 Hz] 29.97p mode</b>	1/30.0 sec. to 1/7200 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [50.00 Hz] 25p mode</b>	1/25.0 sec. to 1/7200 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [59.94 Hz] 23.98p mode</b>	1/24.0 sec. to 1/7200 sec.
<b>Camera Unit -&gt; Shutter Open Angle</b>	3.0 deg to 360.0 deg (can be set in 0.5 deg steps)
<b>Camera Unit -&gt; Image S/N</b>	62 dB (standard)
<b>Camera Unit -&gt; Horizontal Resolution</b>	UHD: 2000 TV or higher (center) HD: 1000 TV or higher (center)
<b>Camera Unit -&gt; Digital Zoom</b>	x2, x3, x4
<b>Memory Card Recorder -&gt; Recording Media</b>	• expressP2 card • microP2 card *2 • SDXC memory card (exceeding 32 GB to 128 GB) UHS-I/UHS-II, UHS Speed Class 3 compatible, video Speed Class V90 compatible
<b>Memory Card Recorder -&gt; Recording Slot</b>	expressP2 card slot x 1 microP2/SDXC UHS-II memory card slot x 2
<b>Memory Card Recorder -&gt; Recording Pixels</b>	3840 x 2160 (UHD), 1920 x 1080 (FHD), 1280 x 720 (HD) (AVC-Intra50: 1440 x 1080, 960 x 720)
<b>Memory Card Recorder -&gt; System Frequency</b>	59.94 Hz/50.00 Hz
<b>Memory Card Recorder -&gt; Recording Format</b>	Please see the "Recording Format" table
<b>Memory Card Recorder -&gt; Recording Video Signal</b>	3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i 1280 x 720/59.94p, 50p 1440 x 1080/59.94i, 50i (AVC-Intra50) 960 x 720/59.94p, 50p (AVC-Intra50)
<b>Memory Card Recorder -&gt; Recording Time</b>	Please see the "Recording Time" table.
<b>Memory Card Recorder -&gt; 2 Slot Functions</b>	Simultaneous recording, Relay recording

<b>Memory Card Recorder -&gt; Special Recording</b>	Pre-recording, Interval recording
<b>Digital Video -&gt; Quantization -&gt; P2</b>	• P2: 4:2:2 10 bit/4:2:0 10 bit (AVC-Intra50)/4:2:0 8 bit (AVC-LongG12)
<b>Digital Video -&gt; Quantization -&gt; MOV</b>	• MOV: 4:2:2 10 bit/4:2:0 8 bit/4:2:0 10 bit (HEVC)
<b>Digital Video -&gt; Video Compression Format -&gt; P2: AVC-Intra200</b>	MPEG-4 AVC/H.264 Intra Profile
<b>Digital Video -&gt; Video Compression Format -&gt; P2: AVC-Intra100/AVC-Intra50</b>	MPEG-4 AVC/H.264 Intra Profile
<b>Digital Video -&gt; Video Compression Format -&gt; P2: AVC-Intra422/AVC-LongG50/AVC-LongG25/AVC-LongG12</b>	MPEG-4 AVC/H.264 High Profile
<b>Digital Video -&gt; Video Compression Format -&gt; MOV</b>	H.264/MPEG-4 AVC High Profile H.265/MPEG-H HEVC Main10 Profile
<b>Digital Audio -&gt; Recording Audio Signal -&gt; P2</b>	48 kHz/24 bit, 4 ch (excluding AVC_LongG12) 48 kHz/16 bit, 4 CH (AVC-Intra100/AVC-Intra50 <sup>*3</sup> / AVC_LongG12)
<b>Digital Audio -&gt; Recording Audio Signal -&gt; MOV</b>	48 kHz/24 bit, 4 CH
<b>Digital Audio -&gt; Audio Recording Format</b>	P2: LPCM MOV: LPCM
<b>Digital Audio -&gt; Headroom</b>	18 dB/20 dB (Can be selected by menu)
<b>AVC Proxy -&gt; File Format</b>	MOV
<b>AVC Proxy -&gt; Video Compression Format</b>	H264/AVC High Profile
<b>AVC Proxy -&gt; Audio Compression Format</b>	AAC-LC
<b>AVC Proxy -&gt; Recording Time&lt;sup&gt;*2&lt;/sup&gt;</b>	Approx. 13 min. per 1 GB of AVC-G6 2CH MOV
<b>Streaming -&gt; Video Compression Format</b>	H.264/MPEG-4 AVC Main Profile, H.264/MPEG-4 AVC High Profile
<b>Streaming -&gt; Video Resolution</b>	3640 x 2160 (UHD), 1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 360 x 180
<b>Streaming -&gt; Streaming Method</b>	Unicast, Multicast
<b>Streaming -&gt; Frame Rate</b>	System frequency = 59.94 Hz: 24 fps, 30 fps, 60 fps System frequency = 50.00 Hz: 25 fps, 50 fps
<b>Streaming -&gt; Bit Rate</b>	3640 x 2160 (UHD): 75 Mbps, 50 Mbps, 25 Mbps, 12 Mbps, 8 Mbps Other than those above: 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
<b>Streaming</b>	AACLC: 48 kHz/16 bit, 2 CH
<b>Streaming -&gt; Network Protocol</b>	RTSP/RTP/RTMP/RTMPS/SRT
<b>Video Output -&gt; SDI OUT1</b>	• BNC x 1 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 (4:2:2 10 bit) 3840 x 2160: 59.94p, 50p, 29.97p, 25p, 23.98p 1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF, 1280 x 720: 59.94p, 50p
<b>Video Output -&gt; SDI OUT2</b>	• BNC x 1 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) 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
<b>Video Output -&gt; HDMI</b>	• HDMI type A x 1 (not compatible with VIERA Link) • HDMI remote control supported • Output format (4:2:2 (10-bit) output) 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
<b>Audio Input/Output -&gt; AUDIO IN</b>	XLR x 2 (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

<b>Audio Input/Output -&gt; MIC IN</b>	XLR x 1, 5-pin +48 V ON/OFF selected by menu -40 dBu/-50 dBu/-60 dBu selected by menu
<b>Audio Input/Output -&gt; Wireless Slot</b>	25-pin, D-SUB, -40 dBu, 2ch supported
<b>Audio Input/Output -&gt; AUDIO OUT</b>	XLR x 1, 5-pin 4 dBu/0 dBu/-3 dBu selected by menu, equilibrium low impedance
<b>Audio Input/Output -&gt; SDI OUT</b>	LPCM 4 CH
<b>Audio Input/Output -&gt; HDMI OUT</b>	LPCM 2 CH
<b>Audio Input/Output -&gt; Headhone</b>	3.5 mm diameter stereo mini jack x 2, output impedance 100Ω
<b>Audio Input/Output -&gt; Built-in Speaker</b>	20 mm diameter, round x 1
<b>Other Input/Output -&gt; GENLOCK IN</b>	BNC x 1, 1.0 V [p-p], 75 Ω
<b>Other Input/Output -&gt; TC IN/OUT</b>	BNC x 1, Used as input/output terminal, switch by menu • Input: 0.5 V - 8.0 V [p-p], 10 kΩ • Output: 2.0 V±0.5 V [p-p], low impedance
<b>Other Input/Output -&gt; DC IN</b>	XLR x 1, 4-pin, DC 12 V (11.0 V - 17.0 V)
<b>Other Input/Output -&gt; DC OUT</b>	4-pin, DC 12 V (11.0 V - 17.0 V), maximum output current 1.5 A
<b>Other Input/Output -&gt; LENS</b>	12-pin
<b>Other Input/Output -&gt; VF</b>	20-pin
<b>Other Input/Output -&gt; LAN</b>	RJ-45 XLRnet connector: 1000BASE-T/100BASE-TX/10BASE-T
<b>Other Input/Output -&gt; USB 3.0 (DEVICE)</b>	USB 3.1 GEN1 type C connector, with USB mass storage function, without USB bus-powered function
<b>Other Input/Output -&gt; USB 2.0 (HOST)</b>	Type A connector, 4-pin (5 V, 0.5 A), for attaching the wireless module (optional)
<b>Other Input/Output -&gt; LIGHT</b>	2-pin, DC12 V (DC 11.0 V - 17.0 V), maximum output current 4.5 A (up to 50 W equivalent)
<b>Monitor/Viewfinder -&gt; LCD Monitor</b>	3.5-inch LCD color monitor: Approx. 2.76 million pixels, touch panel supported
<b>Monitor/Viewfinder -&gt; Display Window</b>	2.4-inch black and white organic EL
<b>Monitor/Viewfinder -&gt; Viewfinder</b>	2.4-inch black and white organic EL
<b>Included Accessories</b>	Mount cap (come already attached to the camera), Shoulder strap
<b>Footnote Description</b>	

Weight and dimensions shown are approximate.

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.

24 bit/16 bit switch by menu

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.