Panasonic

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

4K PROFESSIONAL HDR

AVC ULTRA

Panasonic

AJ-CX4000GJ

https://eu.connect.panasonic.com/global/en/broadcast-proav/professional-camcorders/aj-cx4000gj

General -> Power Supply	DC 12 V (11.0 V – 17.0 V)
General -> 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)
General -> Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
General -> Operating Humidity	10% to 85% (relative humidity)
General -> Storage Temperature	-20 °C to 60 °C (-4 °F to 140 °F)
General -> Weight	Approx. 3.4 kg (7.5 lbs.) (body only)
General -> Dimensions	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)
Camera Unit -> Image Sensor	MOSx1
Camera Unit -> Number of Pixels	11.14 million pixels
Camera Unit -> Lens Mount	2/3-type bayonet
Camera Unit -> Optical Filter -> CC Filter	A: 3200 K, B: 4300 K, C: 5600 K, D: 6300 K
Camera Unit -> Optical Filter -> ND Filter	1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
Camera Unit -> Gain Setting	-6 dB to 30 dB, can be set in 1 dB steps
Camera Unit -> Digital Super Gain (DS.GAIN)	Selectable from 6 dB, 10 dB, 12 dB, 15 dB, 20 dB, 24 dB, 28 dB, 34 dB
Camera Unit -> Super Gain (S.GAIN)	Selectable from 30 dB, 36 dB, 42 dB
Camera Unit -> Shutter Speed -> [59.94 Hz] 59.94i/59.94p mode	1/100 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF
Camera Unit -> Shutter Speed -> [50.00 Hz] 50i/50p mode	1/60 sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec., HALF
Camera Unit -> Synchro Scan Shutter -> [59.94 Hz] 59.94i/59.94p mode	1/60.0 sec. to 1/7200 sec.
Camera Unit -> Synchro Scan Shutter -> [50.00 Hz] 50i/50p mode	1/50.0 sec. to 1/7200 sec.
Camera Unit -> Synchro Scan Shutter -> [59.94 Hz] 29.97p mode	1/30.0 sec. to 1/7200 sec.
Camera Unit -> Synchro Scan Shutter -> [50.00 Hz] 25p mode	1/25.0 sec. to 1/7200 sec.
Camera Unit -> Synchro Scan Shutter -> [59.94 Hz] 23.98p mode	1/24.0 sec. to 1/7200 sec.
Camera Unit -> Shutter Open Angle	3.0 deg to 360.0 deg (can be set in 0.5 deg steps)
Camera Unit -> Image S/N	62 dB (standard)
Camera Unit -> Horizontal Resolution	UHD: 2000 TV or higher (center)HD: 1000 TV or higher (center)
Camera Unit -> Digital Zoom	x2, x3, x4
Memory Card Recorder -> Recording Media	• 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
Memory Card Recorder -> Recording Slot	expressP2 card slot x 1microP2/SDXC UHS-II memory card slot x 2
Memory Card Recorder -> Recording Pixels	3840 x 2160 (UHD), 1920 x 1080 (FHD), 1280 x 720 (HD)(AVC-Intra50: 1440 x 1080, 960 x 720)
Memory Card Recorder -> System Frequency	59.94 Hz/50.00 Hz
Memory Card Recorder -> Recording Format	Please see the "Recording Format" tabl
Memory Card Recorder -> Recording Video Signal	3840 x 2160/59.94p, 50p, 29.97p, 25p, 23.98p1920 x 1080/59.94p, 50p, 29.97p, 25p, 23.98p, 59.94i, 50i1280 x 720/59.94p, 50p1440 x 1080/59.94i, 50i (AVC-Intra50)960 x 720/59.94p, 50p (AVC-Intra50)
Memory Card Recorder -> Recording Time	Please see the "Recording Time" table.
Memory Card Recorder -> 2 Slot Functions	Simultaneous recording, Relay recording
Memory Card Recorder -> Special Recording	Pre-recording, Interval recording
Digital Video -> Quantization -> P2	• P2: 4:2:2 10 bit/4:2:0 10 bit (AVC-Intra50)/4:2:0 8 bit (AVC-LongG12)
Digital Video -> Quantization -> MOV	• MOV: 4:2:2 10 bit)/4:2:0 8 bit/4:2:0 10 bit (HEVC)
Digital Video -> Video Compression Format -> P2: AVC-Intra200	MPEG-4 AVC/H.264 Intra Profile
Digital Video -> Video Compression Format -> P2: AVC-Intra100/AVC-Intra50	MPEG-4 AVC/H.264 Intra Profile
Digital Video -> Video Compression Format -> P2: AVC-Intra422/AVC-LongG50/AVC-LongG25/ AVC-LongG12	MPEG-4 AVC/H.264 High Profile

Digital Video -> Video Compression Format -> MOV	H.264/MPEG-4 AVC High ProfileH.265/MPEG-H HEVC Main10 Profile
Digital Audio -> Recording Audio Signal -> P2	48 kHz/24 bit, 4 ch (excluding AVC_LongG12)48 kHz/16 bit, 4 CH (AVC-Intra100/AVC-Intra50 *3/ AVC_LongG12)
Digital Audio -> Recording Audio Signal -> MOV	48 kHz/24 bit, 4 CH
Digital Audio -> Audio Recording Format	P2: LPCMMOV: LPCM
Digital Audio -> Headroom	18 dB/20 dB (Can be selected by menu)
AVC Proxy -> File Format	MOV
AVC Proxy -> Video Compression Format	H264/AVC High Profile
AVC Proxy -> Audio Compression Format	AAC-LC
AVC Proxy -> Recording Time *2	Approx. 13 min. per 1 GB of AVC-G6 2CH MOV
Streaming -> Video Compression Format	H.264/MPEG-4 AVC Main Profile,H.264/MPEG-4 AVC High Profile
Streaming -> Video Resolution	3640 x 2160 (UHD), 1920 x 1080 (FHD), 1280 x 720 (HD), 640 x 360, 360 x 180
Streaming -> Streaming Method	Unicast, Multicast
Streaming -> Frame Rate	System frequency = 59.94 Hz: 24 fps, 30 fps, 60 fpsSystem frequency = 50.00 Hz: 25 fps, 50 fps
Streaming -> Bit Rate	3640 x 2160 (UHD): 75 Mbps, 50 Mbps, 25 Mbps, 12 Mbps, 8 MbpsOther 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
Streaming	AACLC: 48 kHz/16 bit, 2 CH
Streaming -> Network Protocol	RTSP/RTP/RTMP/RTMPS/SRT
Video Output -> SDI OUT1	• BNC x 112G-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, 23.98p1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97PsF, 25PsF, 23.98PsF,1280 x 720: 59.94p, 50p
Video Output -> SDI OUT2	• BNC x 13G/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, 23.98PsF1280 x 720: 59.94p, 50p,720 x 480: 59.94i,720 x 576: 50i
Video Output -> HDMI	• 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, 23.98p1920 x 1080: 59.94p, 50p, 59.94i, 50i, 29.97p, 25p, 23.98p1280 x 720: 59.94p, 50p,720 x 480: 59.94p,720 x 576: 50p
Audio Input/Output -> AUDIO IN	XLR x 2 (CH1/3, CH2/4), 3-pinLINE/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
Audio Input/Output -> MIC IN	XLR x 1, 5-pin+48 V ON/OFF selected by menu-40 dBu/-50 dBu/-60 dBu selected by menu
Audio Input/Output -> Wireless Slot	25-pin, D-SUB, -40 dBu, 2ch supported
Audio Input/Output -> AUDIO OUT	XLR x 1, 5-pin4 dBu/0 dBu/-3 dBu selected by menu, equilibrium low impedance
Audio Input/Output -> SDI OUT	LPCM 4 CH
Audio Input/Output -> HDMI OUT	LPCM 2 CH
Audio Input/Output -> Headhone	3.5 mm diameter stereo mini jack x 2, output impedance 100Ω
Audio Input/Output -> Built-in Speaker	20 mm diameter, round x 1
Other Input/Output -> GENLOCK IN	BNC x 1, 1.0 V [p-p], 75 Ω
Other Input/Output -> TC IN/OUT	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
Other Input/Output -> DC IN	XLR x 1, 4-pin, DC 12 V (11.0 V - 17.0 V)
Other Input/Output -> DC OUT	4-pin, DC 12 V (11.0 V - 17.0 V), maximum output current 1.5 A
Other Input/Output -> LENS	12-pin
Other Input/Output -> VF	20-pin
Other Input/Output -> LAN	RJ-45 XLRnet connector: 1000BASE-T/100BASE-TX/10BASE-T
Other Input/Output -> USB 3.0（DEVICE）	USB 3.1 GEN1 type C connector, with USB mass storage function, without USB bus-powered function
Other Input/Output -> USB 2.0（HOST）	Type A connector, 4-pin (5 V, 0.5 A), for attaching the wireless module (optional)
Other Input/Output -> 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
Monitor/Viewfinder -> Display Window	2.4-inch black and white organic EL
Monitor/Viewfinder -> Viewfinder	2.4-inch black and white organic EL
Included Accessories	Mount cap (come already attached to the camera), Shoulder strap
Footnote Description	1. Weight and dimensions shown are approximate. 2. 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. 3. 24 bit/16 bit switch by menu 4. 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.