



## Handheld P2HD Broadcast Camcorder

# AJ-PX230

P2HD handheld camera recorder to feature the AVC-ULTRA codec family and microP2 cards

### Key Features

AVC-Intra 200100/50 + AVC-LongG50/25/12

High quality 10bit/4:2:2 recording video recording

New compact / lightweight 22x lens (f=28mm-616mm/35mm)

Professional Outputs for Flexible Shooting

Dual microP2 card slots for cost efficient microP2 cards





## AJ-PX230

<https://eu.connect.panasonic.com/sk/en/broadcast-proav/aj-px230>

<b>General -&gt; Power Supply</b>	DC 7.2 V (when the battery is used) DC 12 V (when the AC adaptor is used)
<b>General -&gt; Power Consumption</b>	19.5 W (when the LCD monitor is used)
<b>General -&gt; Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>General -&gt; Operating Humidity</b>	10 % to 80 % (no condensation)
<b>General -&gt; Weight *1</b>	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)
<b>General -&gt; Dimensions *1</b>	W 171 mm x H 176 mm x D 329 mm (6-15/16 inches x 6-23/32 inches x 12-15/16 inches) (excluding protrusion)
<b>Camera Unit -&gt; Image Sensor</b>	1/3-type 2.2 megapixels, MOS solid state image sensor x 3
<b>Camera Unit -&gt; Lens</b>	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)
<b>Camera Unit -&gt; Filter Diameter</b>	72 mm
<b>Camera Unit -&gt; Shortest Shooting Distance (M.O.D.)</b>	1.1 m from the front lens Approx. 0.06 m from front lens (When Macro=On, at wide-end)
<b>Camera Unit -&gt; Optical System</b>	Prism system
<b>Camera Unit -&gt; Optical Filter -&gt; ND Filter</b>	OFF, 1/4, 1/16, 1/64
<b>Camera Unit -&gt; Gain Setting</b>	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)
<b>Camera Unit -&gt; Color Temperature Setting</b>	ATW, ATW LOCK, Ach, Bch, preset 3200 K/preset 5600 K/VAR (2000 K to 15000 K)
<b>Camera Unit -&gt; Shutter Speed -&gt; [59.94 Hz] 59.94i/59.94p mode</b>	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.
<b>Camera Unit -&gt; Shutter Speed -&gt; [50.00 Hz] 50i/50p mode</b>	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.
<b>Camera Unit -&gt; Shutter Speed -&gt; [59.94 Hz] 29.97p mode</b>	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.
<b>Camera Unit -&gt; Shutter Speed -&gt; [50.00 Hz] 25p mode</b>	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.
<b>Camera Unit -&gt; Shutter Speed -&gt; [59.94 Hz] 23.98p mode</b>	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.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [59.94 Hz] 59.94i/59.94p mode</b>	1/60.0 sec. to 1/249.8 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [50.00 Hz] 50i/50p mode</b>	1/50.0 sec. to 1/250.0 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [59.94 Hz] 29.97p mode</b>	1/30.0 sec. to 1/249.8 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [50.00 Hz] 25p mode</b>	1/25.0 sec. to 1/250.0 sec.
<b>Camera Unit -&gt; Synchro Scan Shutter -&gt; [59.94 Hz] 23.98p mode</b>	1/24.0 sec. to 1/249.6 sec.
<b>Camera Unit -&gt; Shutter Speed (Slow Shutter) -&gt; [59.94 Hz] 59.94i/59.94p mode</b>	1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec., 1/30 sec.
<b>Camera Unit -&gt; Shutter Speed (Slow Shutter) -&gt; [50.00 Hz] 50i/50p mode</b>	1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec., 1/25 sec.
<b>Camera Unit -&gt; Shutter Speed (Slow Shutter) -&gt; [59.94 Hz] 29.97p mode</b>	1/2 sec., 1/4 sec., 1/8 sec., 1/15 sec.
<b>Camera Unit -&gt; Shutter Speed (Slow Shutter) -&gt; [50.00 Hz] 25p mode</b>	1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.

<b>Camera Unit -&gt; Shutter Speed (Slow Shutter) -&gt; [59.94 Hz] 23.98p mode</b>	1/2 sec., 1/3 sec., 1/6 sec., 1/12 sec.
<b>Camera Unit -&gt; Shutter Open Angle</b>	5.0 deg to 180.0 deg to 360.0 deg (in 0.5 deg steps, angle display)
<b>Camera Unit -&gt; VFR Recording Frame Rate &gt; [59.94 Hz] 59.94i/59.94p mode</b>	-1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 32, 34, 36, 40, 44, 48, 54, and 60 (frames per second)
<b>Camera Unit -&gt; VFR Recording Frame Rate &gt; [50.00 Hz] 50p mode</b>	-1, 2, 4, 6, 9, 12, 15, 18, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 37, 42, 45, 48, and 50 (frames per second)
<b>Camera Unit -&gt; Minimum Subject Illumination</b>	0.02 lx (F1.6, gain 18 dB, [1S.EXP.], [HIGH SENS.] mode)
<b>Camera Unit -&gt; Digital Zoom</b>	x2/x5/x10
<b>Camera Unit -&gt; Lens Hood</b>	Hood with lens cover
<b>Memory Card Recorder -&gt; Recording Media</b>	microP2 card *2
<b>Memory Card Recorder -&gt; Recording Slot</b>	microP2 card slot x2
<b>Memory Card Recorder -&gt; System Format</b>	1080/59.94p, 1080/59.94i, 1080/23.98PsF, 720/59.94p, 480/59.94i, 1080/50p, 1080/50i, 720/50p, 576/50i
<b>Memory Card Recorder -&gt; Recording File Format</b>	Please see the "Recording Codecs and Video Formats" table.
<b>Memory Card Recorder -&gt; Recording Format</b>	AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25/AVC-LongG12 DVCPRO HD/DVCPRO50/DVCPRO/DV formats
<b>Memory Card Recorder -&gt; Recording Video Signal</b>	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
<b>Memory Card Recorder -&gt; Recording/Playback Time *2</b>	AVC-Intra200: 16GB x 1: Approx. 8min., 32GB x 1: Approx. 16min., 64GB x 1: Approx. 32min. AVC-Intra100: 16GB x 1: Approx. 16min., 32GB x 1: Approx. 32min., 64GB x 1: Approx. 64min. AVC-Intra50: 16GB x 1: Approx. 32min., 32GB x 1: Approx. 64min., 64GB x 1: Approx. 128min. AVC-LongG50: 16GB x 1: Approx. 32min., 32GB x 1: Approx. 64min., 64GB x 1: Approx. 128min. AVC-LongG25: 16GB x 1: Approx. 64min., 32GB x 1: Approx. 128min., 64GB x 1: Approx. 256min. AVC-LongG12: 16GB x 1: Approx. 120min., 32GB x 1: Approx. 240min., 64GB x 1: Approx. 480min. DVCPRO HD: 16GB x 1: Approx. 16min., 32GB x 1: Approx. 32min., 64GB x 1: Approx. 64min. DVCPRO 50: 16GB x 1: Approx. 32min., 32GB x 1: Approx. 64min., 64GB x 1: Approx. 128min. DVCPRO/DV: 16GB x 1: Approx. 64min., 32GB x 1: Approx. 128min., 64GB x 1: Approx. 256min.
<b>Digital Video -&gt; Quantization -&gt; AVC-Intra200</b>	10 bit
<b>Digital Video -&gt; Quantization -&gt; AVC-Intra100/AVC-Intra50/AVC-LongG50/AVC-LongG25</b>	10 bit
<b>Digital Video -&gt; Quantization -&gt; AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV</b>	8 bit
<b>Digital Video -&gt; Video Compression Format -&gt; AVC-Intra200</b>	MPEG-4 AVC/H.264 Intra Profile
<b>Digital Video -&gt; Video Compression Format -&gt; AVC-Intra 100/AVC-Intra 50</b>	MPEG-4 AVC/H.264 Intra Profile
<b>Digital Video -&gt; Video Compression Format -&gt; AVC-LongG50/AVC-LongG25/AVC-LongG12</b>	MPEG-4 AVC/H.264
<b>Digital Video -&gt; Video Compression Format -&gt; DVCPRO HD</b>	DV-Based Compression
<b>Digital Video -&gt; Video Compression Format -&gt; DVCPRO50/DVCPRO</b>	DV-Based Compression
<b>Digital Video -&gt; Video Compression Format -&gt; DV</b>	DV Compression
<b>Digital Audio -&gt; Recording Audio Signal -&gt; P2</b>	48 kHz/24 bits, 4 CH ( AVC-Intra200/AVC-LongG50/AVC-LongG25 ) 48 kHz/16 bits, 4 CH and 48 kHz/24 bits, 4 CH switch ( AVC-Intra100/AVC-Intra50 ) 48 kHz/16 bits, 4 CH ( AVC-LongG12/DVCPRO HD/DVCPRO50 ) 48 kHz/16 bits, 4 CH ( DVCPRO/DV )
<b>Digital Audio -&gt; Headroom</b>	12 dB/18 dB/20 dB switchable menu
<b>Video Input/Output -&gt; SDI OUT1</b>	BNC x 1, HD (3G/1.5G), SD: 0.8 V [p-p], 75 Ω
<b>Video Input/Output -&gt; GL IN/VIDEO OUT</b>	HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)
<b>Video Input/Output -&gt; HDMI</b>	HDMI x 1 (HDMI type A terminal, not compatible with VIERA Link)

<b>Audio Input/Output -&gt; Built-in Microphone</b>	Supports stereo microphone
<b>Audio Input/Output -&gt; AUDIO IN</b>	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)
<b>Audio Input/Output -&gt; Headphone</b>	3.5 mm diameter stereo mini jack x 1 100 $\Omega$ , -16 dBV (32 $\Omega$ load, at maximum output level)
<b>Audio Input/Output -&gt; Built-in Speaker</b>	20 mm diameter, round x 1
<b>Other Input/Output -&gt; DC IN</b>	DC 12 V (DC 10.5 V - 13.5 V), EIAJ type 4
<b>Other Input/Output -&gt; REMOTE *5</b>	2.5 mm diameter super mini jack x1 (ZOOM S/S) 3.5 mm diameter mini jack x1 (FOCUS IRIS)
<b>Other Input/Output -&gt; USB 2.0 ( DEVICE )</b>	Type miniB connector, 4 pin
<b>Other Input/Output -&gt; USB 2.0 ( SUB HOST )</b>	Type A connector, 4 pin
<b>Monitor/Viewfinder -&gt; LCD Monitor</b>	3.5 type QHD color monitor (Approx. 1,560,000 dots)
<b>Monitor/Viewfinder -&gt; Viewfinder</b>	0.5 type OLED (organic EL display) (Approx. 2,360,000 dots, video display area: Approx. 1,770,000 dots)

**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. Figures are for continuous recording as one clip. Depending on the number of clips, the overall recording time may be shorter than the above.