



HD Broadcast Camcorder

AJ-HPX2100

High-End P2 Camera Recorder that Offers DVCPRO HD (1080i/720p) Recording

Key Features

14 bit A/D processing

12 pole linear matrix color correction function

Supports AVC-Intra 100/50 codec



AJ-HPX2100

<https://eu.connect.panasonic.com/b/en/products/broadcast-proav/aj-hpx2100>

General Specification

Power Source	DC 12V (11.0V to 17.0V)
Power Consumption	36W (LCD Monitor Off)
	43W (SDI-IN, AVC-Intra option, LCD Monitor ON)
Operating Temperature	0° C to 40° C
Keeping Temperature	-20° C to 60° C
Operating Humidity	10% to 85%
Operating Time	Approx. 120 min. (when using DIONIC90 battery)
Weight	4.5 kg, main unit only, without VF mount
Dimensions (W x H x D)	137 mm x 209 mm x 317 mm
	without handle and wireless option cover

Camera Section

CCD Elements	2/3-inch CCD x 3
Picture Element	Total: 1370 (H) x 744 (W), Active: 1280 (H) x 720 (W)
Optical Filters	CC: Cross, 3200K, 4300K, 6300K
	ND: CLEAR, 1/4ND, 1/16ND, 1/64ND
Quantizing	14 bits
Horizontal Drive Frequency	74.25 MHz (50 Hz), 74.1758 MHz (59.94 Hz)
Sampling Frequency	74.25 MHz (50 Hz), 74.1758 MHz (59.94 Hz)
Digital Signal Process	74.25 MHz (50 Hz), 74.1758 MHz (59.94 Hz)
Programmable Gain	3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB
Digital Super Gain	+6/+10/+12/+15/+20 dB
Line Mix Gain	+6 dB (ON/OFF)
Super Gain	+30/+36/+42/+48 dB
Shutter Speed	1/60 (50Hz) sec., 1/100 (59.94Hz) sec., 1/120 sec., 1/250 sec., 1/500 sec., 1/1000 sec., 1/2000 sec. and HALF
Syncro Scan Sutter	1/50.2 sec. to 1/209.5 sec. (50 Hz), 1/25.2 sec. to 1/209.5 sec. (25 Hz), 1/60.3 sec. to 1/249.8 sec. (59.94Hz), 1/30.2 sec. to 1/249.8 sec. (29.97Hz), 1/24.1 sec. to 1/249.8 sec. (23.98Hz),
Lens Mount	2/3-inch bayonet mount
Optical System	F1.4 Prizm
Sensitivity	F10
Minimum Luminance	0.007lx
	(F1.4, Super gain +48dB, Digital super gain +20 dB, Line mix gain +6dB)
Video S/N	54 dB (standard)
Horizontal Resolution	700 lines (at center standard)
Registration	Less than 0.03% (whole zone, without lens distortion)

Memory Card Recorder Section

Recording Format	DVCPRO HD/DVCPRO 50/DVCPRO/DV Format switchable
Recording Video Signal	1080/50i, 720/50p, 1080/59.94i, 720/59.94p, 576/50i, 480/59.94i
Recording Audio Signal	DVCPRO HD: 48kHz/16bits, 4CH DVCPRO 50: 48kHz/16bits, 4CH DVCPRO/DV: 48kHz/16bits, (2CH/4CHswitchable)
Recording Media	P2card
Recording Playback Time*	when using 64GB P2card AJ-P2C064AG DVCPRO HD Approx. 64 min.(by single card) Approx. 320 min.(using 5 card slot) DVCPRO 50 Approx. 128 min.(by single card) Approx. 640 min.(using 5 card slot) DVCPRO/DV Approx. 256 min.(by single card) Approx. 1,280 min.(using 5 card slot)
	* Time shown above is when you record a series of 1 shot to P2 card. Depending on numbers of shots you record, time will get shorter than the number shown above.

Digital Video

Sampling Frequency (Digital Video)	DVCPRO HD(50 Hz):Y:74.25 MHz,PB/PR:37.125 MHz DVCPRO HD(59.94 Hz): Y:74.1758 MHz,PB/PR:37.0879 MHz DVCPRO 50: Y:13.5 MHz,PB/PR:6.75 MHz
Quantizing (Digital Video)	8bits

Video Compression Ratio	DVCPRO HD: 1/6.7 (except 1080-50i/25P which is 1/6.3) DVCPRO 50: 1/3.3 DVCPRO/DV: 1/5
Video Recording Bit Rate	DVCPRO HD: 100 Mbps DVCPRO 50: 50Mbps DVCPRO/DV: 25Mbps
Digital Audio	
Sampling Frequency (Digital Audio)	48 kHz (sync. with video)
Quantizing (Digital Audio)	16 bits
Frequency Response	20 Hz to 20 kHz, ± 1.0 dB (reference level)
Dynamic Range	More than 85 dB (1 kHz, AWTd)
Distortion	Within 0.1% (1 kHz, reference level)
Headroom	20 dB
Input and Output	
Genlock In	BNC, 1.0 Vp-p, 75 Ω (switchable to VIDEO IN or Return Video)
Monitor Out	BNC x 1, 1.0Vp-p, 75 Ω Composite
Video Output	BNC x 1, 1.0Vp-p, 75 Ω Composite (switchable to HD SDI/SD SDI) HD SDI: 0.8Vp-p, 75 Ω , (SMPTE292M/296M/299M) SD SDI: 0.8Vp-p, 75 Ω , (ITU-R.BT656-4/SMPTE259M-C/272M-A)
TC In	BNC x 1, 0.5 to 8Vp-p, 10k Ω
TC Out	BNC x 1, low-impedance, 2.0 ± 0.5 Vp-p
DVCPRO/DV	6pin (Input and Output), Transfer Speed: 400/200/100 Mbps (selectable) Data: IEEE 1394-1995/1394a-2000, IEC61883-1,2, SMPTE396M standards Control Command: AV/C Command Set
SDI-In (Option)	BNC x 1, 0.8Vp-p, 75 Ω (AJ-YA350AG) HD: SMPTE292M/296M/299M SD: ITU-R.BT656-4/SMPTE259M-C/272M-A
Audio In (CH1/CH2)	XLR-3pin x 2, LINE/MIC/MIC+48Vswitchable LINE:-30/+4dBu selectable MIC :-60/-50dBu selectable MIC+48V: Phantom +48 V, - 60/ - 50 dBu selectable
MIC In	XLR-5pin x 1, - 50/ - 40dBu selectable, Phantom +48 V ON/OFF
Wireless In	D-sub 25-pin, - 40 dBu
Audio Out (CH1/CH2)	XLR 5-pin, balanced, low-impedance, - 30/+4 dBu selectable
Phones Out	Stereo Mini Jack x 2
DC In	XLR-4-pin x 1, DC12V (11V to 17V)
DC Out	4 pin, DC12V (11V to 17V), Max.1.5A
Lens	12-pin
EVF	20-pin
RCU	10-pin (for AJ-RC10G)
GPS	6-pin (for AJ-GPS910)
USB 2.0	HOST: 4-pin (Type-A), DEVICE: 4-pin (Type-B)
Included Accessories	Shoulder strap, Front audio volume knob (with screw)