



P2 HD recorder/player

AJ-HPD2500

Enhances File-Based Broadcasting Workflows with Versatile Editing, Transmission and Networking Functions. Newly supports 24 bit Audio.

Key Features

Three HD codecs supported

1080i and 720p recording and playback

Six P2 card slots and one SD card slot



AJ-HPD2500

<https://eu.connect.panasonic.com/d/en/products/broadcast-proav/aj-hpd2500>

General Specification

Power Source	AC 100 V to 240 V, 50 Hz/60 Hz 65W (full option)
Operating Temperature	5°C to 40°C (41 °F to 104 °F)
Operating Humidity	10 % to 80 % (no condensation)
Keeping Temperature	-20°C to 50°C (-4 °F to 122 °F)
Weight	13 kg (28.66 lbs)
Dimensions (W x H x D)	424.0 mm x 175.2 mm x 414.7 mm (16-3/4" x 6-15/16" x 16-3/8") excluding feet, connector and jog dial.
Recording Media	P2 card, SD/SDHC Memory Card (AVCHD Recording*1)
Recording Format *2	See the spec file
Recording Time *3	See the spec file
Recording Video Signal	see left page for detail
Recording Audio Signal	48kHz/16bits/8CH (AVC-Intra100/AVC-Intra50/DVCPRO HD) 48kHz/16bits/4CH (DVCPRO 50) 48kHz/16bits/2CH/4CH switchable (DVCPRO/DV)

Video Specification (Digital Video)

Sampling Frequency	AVC-Intra 100/DVCPRO HD (59.94 Hz): Y:74.1758 MHz, PB/PR:37.0879 MHz (50 Hz): Y:74.2500 MHz, PB/PR:37.1250 MHz DVCPRO 50: Y:13.5 MHz, PB/PR:6.75 MHz DVCPRO: Y:13.5 MHz, PB/PR:3.375 MHz
Quantizing	AVC-Intra 100/AVC-Intra 50: 10 bits DVCPRO HD/DVCPRO 50/DVCPRO/DV: 8 bits
Compression Format	AVC-Intra 100/AVC-Intra 50: MPEG-4 AVC/H.264 Intra Profile DVCPRO HD: DV-Based Compression (SMPTE 370M) DVCPRO 50/DVCPRO: DV-Based Compression (SMPTE 314M) DV: DV Compression (IEC61834-2)
Color Sampling	AVC-Intra100: Y:PB:PR = 4:2:2
Resolution	AVC-Intra 100: 1920 x 1080 (1080/59.94i, 1080/50i) 1280 x 720 (720/59.94p, 720/50p) AVC-Intra 50: 1440 x 1080 (1080/59.94i, 1080/50i) 960 x 720 (720/59.94p, 720/50p)
Video Input Signal	
Analog Composite Input	BNC x 1 (loop-through x 1), 75 ohms auto (Video In), 1.0 V[P-P] (75 ohms)
Reference Input	Black Burst/HD 3 value SYNC, BNC x 1 (loop-through x 1), 75 ohms auto
SDI (HD/SD) Input	BNC x 1, (HD SDI Input/SD SDI Input switchable) HD Serial Digital: SMPTE 292M/296M/299M standard SD Serial Digital: SMPTE 259M-C/272M-A standard ITU-R BT.656-4 standard
Video Output Signal	
SD Analog Composite Output	BNC x 1 (Super On/Off)
SDI (HD/SD) Output	BNC x 2, (HD SDI Output/SD SDI Output switchable) HD Serial Digital: SMPTE 292M/296M/299M standard SD Serial Digital: SMPTE 259M-C/272M-A standard ITU-R BT.656-4 standard
SD SDI MON Output	BNCx1, SMPTE 259M-C/272M-A standard ITU-R BT. 656-4 (576/50i) standard
Video Adjustment Range	
Output Gain	- ∞ to + 3 dB or - ∞ to + 6 dB (Menu switchable)
Chroma Output Gain	- ∞ to + 3 dB
Chroma Phase	± 30°
Setup Level	± 10%
Sink Phase	± 15 μs
SC Phase	± 180°
Audio Specification (Digital Audio)	
Sampling Frequency (Audio Specification)	48 kHz (sync video)
Quantizing (Audio Specification)	16 bit/24 bit (AVC-Intra 100/AVC-Intra 50) 16 bit (DVCPRO HD/DVCPRO 50/DVCPRO/DV)
Frequency Response	20 Hz to 20 kHz, ±1.0 dB (reference level)
Dynamic Range	More than 85 dB (1 kHz, emphasis off, "A" weighted)
Distortion	Less than 0.1% (16bits 1 kHz, emphasis off, reference level)
Cross Talk	Less than -80 dB (1 kHz, between 2 channels)
Headroom	20/18/12 dB switchable
De-Emphasis	T1=50 μsec, T2=15 μsec (On/Off auto)
Audio Input Signal	
Analog Input	XLR x 2 (CH1/CH2), 600 ohms/high-impedance switchable, +4/0/-3/-20 dBu switchable
Digital Input	BNC x 4 (CH1/2, CH3/4, CH5/6, CH7/8), AES/EBU format SMPTE 276M
SDI Input	BNC x 1 (HD SDI Input/SD SDI Input switchable) HD Serial Digital: SMPTE 292M/296M/299M standard SD Serial Digital: SMPTE 259M-C/272M-A standard ITU-R BT. 656-4 (576/50i) standard

Audio Output Signal	
Analog Output	XLR x 2, low-impedance, +4/0/-3/-20 dBu switchable
Digital Output	BNC x 4 (CH1/2, CH3/4, CH5/6, CH7/8), AES/EBU format SMPTE 276M
SDI Output	BNC x 2 (HD SDI Output/SD SDI Output switchable) HD Serial Digital: SMPTE 292M/296M/299M standard SD Serial Digital: SMPTE 259M-C/272M-A standard ITU-R BT. 656-4 (576/50i) standard
SD SDI MON Output (Audio Output Signal)	BNCx1, SMPTE 259M-C/272M-A standard ITU-R BT. 656-4 (576/50i) standard
Monitor Output	XLR x 2 (CH1/CH2), low-impedance, +4/0/-3/-20 dBu switchable
Headphones	Stereo mini jack (3.5 mm diameter), 8 ohms, variable level
Other Input/Output	
Time Code Input	BNC x 1, 0.5 V[P-P] to 8.0 V[P-P], 10 k ohms
Time Code Output	BNC x 1, 2.0 V[P-P] ± 0.5 V[P-P], low impedance
RS-232C Input/Output	D-sub 9pin, RS-232C Interface x 1
RS-422A Input/Output	D-sub 9pin, RS-422A Interface x 1
Parallel	D-sub 25pin x 1
Encoder Remote	D-sub 15pin x 1
USB 2.0	Host x 1, Device x 1
LAN	1000BASE-T/100BASE-TX/10BASE-T x 1
eSATA	eSATA 3Gbit port x 1
Note	<p>*1: When using the AJ-YCX250G AVCHD codec board. Only possible when simultaneously recording P2HD and AVCHD. Recording only AVCHD is not possible.</p> <p>*2: To record and play back AVCHD is only possible when an AJ-YCX250G AVCHD codec board (optional) is installed.</p> <p>*3: All of the times apply when single clips are recorded continuously one after the other on the P2 card. Depending on the number of the clips to be recorded, the recordable time may be shorter than the times given.</p> <p>Weight and dimensions shown are approximate. Specifications are subject to change without notice.</p>