



AVC-ULTRA P2 Memory Card Recorder

AJ-PD500

P2 HD recorder with native AVC-ULTRA recording and built-in microP2 card slots.

Key Features

Two P2 slots and two microP2 slots

Host of input/output interface connections both AV and IT

Compact and light weight for easy handling



AJ-PD500

<https://eu.connect.panasonic.com/gb/en/products/broadcast-proav/aj-pd500>

General

Power Source	AC 100-240 V, 50 Hz/60 Hz, 45 W DC 12 V, 3.6 A (included option)
Operating Temperature	0 °C to 40 °C (32 °F to 104 °F)
Operating Humidity	10 % to 80 % (no condensation)
Storage Temperature	-20 °C to 50 °C (-4 °F to 122 °F)
Weight	3.65 kg (8.05 lbs) (main unit only)
Dimensions	210 mm (W) x 125.5 mm (H) x 253 mm (D) (8-9/32 inches x 4-15/16 inches x 9-31/32 inches)

(not including the Handle, set foot, knob and terminal)

Recording Media

Recording Media	P2 card, microP2 card
Recording Formats	AVC-Intra200/AVC-Intra100/AVC-Intra50/AVC-LongG50/ AVC-LongG25/AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/ DV (selectable)

Proxy | File Format

MP4 (ISO/IEC 14496 standard),
MOV (QuickTime format)

Proxy | Video Compression Formats

MPEG4 Simple Profile,
H.264/AVC Baseline Profile,
H.264/AVC High Profile

Proxy | Audio

AAC-LC, Linear PCM

Video Recording Signals

1080/59.94p, 1080/50p, 1080/59.94i, 1080/50i,
1080/29.97PsF, 1080/25PsF, 1080/24PsF, 1080/23.98PsF,
720/59.94p, 720/50p, 480/59.94i, 576/50i

Audio Recording Signals

AVC-Intra200/AVC-LongG50/AVC-LongG25: 48 kHz 24 bit 8 CH
AVC-LongG12: 48 kHz 16 bit 4 CH
AVC-Intra100/AVC-Intra50: 48 kHz 24 bit 8 CH
DVCPRO HD: 48 kHz 16 bit 8 CH
DVCPRO 50: 48 kHz 16 bit 4 CH
DVCPRO/DV: 48 kHz 16 bit 4 CH

Recording Times

See page 5 in this catalog for Recording Times.

Video Specification (Digital Video)

Sampling Frequency AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25/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
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Sampling Frequency AVC-Intra100/AVC-LongG25	(1080/59p) Y: 148.3516 MHz, PB/PR: 74.1758 MHz (1080/50p) Y: 148.5000 MHz, PB/PR: 74.2500 MHz
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Sampling Frequency DVCPRO50	Y: 13.5 MHz, PB/PR: 6.75 MHz
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Sampling Frequency DVCPRO	Y: 13.5 MHz, PB/PR: 3.375 MHz
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Quantizing

AVC-Intra200/AVC-LongG50/AVC-LongG25: 24 bit
AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable)
AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 16 bit

Video Compression Methods

AVC-Intra200/AVC-Intra100/AVC-Intra50:
MPEG-4 AVC/H.264 Intra Profile
AVC-LongG50/AVC-LongG25/AVC-LongG12:
MPEG-4 AVC/H.264 High Profile
DVCPRO HD: DV-Based Compression (SMPTE ST 370)
DVCPRO50/DVCPRO: DV-Based Compression (SMPTE ST 314)
DV: DV Compression (IEC 61834-2)

Color Sampling

AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25:
Y: PB: PR = 4: 2: 2

Resolution	AVC-Intra100/AVC-LongG25/AVC-LongG12: 1920x1080 (1080/59.94p, 1080/50p) AVC-Intra200/AVC-Intra100/AVC-LongG50/AVC-LongG25/ AVC-LongG12: 1920 x 1080 (1080/59.94i, 1080/50i), 1280 x 720 (720/59.94p, 720/50p) AVC-Intra50: 1440x1080 (1080/59.94i, 1080/50i) 960x720 (720/59.94p, 720/50p)
Audio (Digital Audio)	
Sampling Frequency	48kHz (synchronized with video)
Quantizing (Audio)	AVC-Intra200/AVC-LongG50/AVC-LongG25: 24 bit AVC-Intra100/AVC-Intra50: 24 bit/16 bit (selectable) AVC-LongG12/DVCPRO HD/DVCPRO50/DVCPRO/DV: 16 bit
Headroom	12 dB/18 dB/20 dB (selectable)
De-Emphasis	T1=50 μs, T2=15 μs (auto on/off)
Video Input	
Reference Input	BNC x 1, Auto switching of black burst/HD 3-value sync
SDI Input	BNC x 1
Video Output	
Monitor Output	BNC x 1, SD analog composite
Reference Through Output	BNC x 1
SDI Output	BNC x 3
SDI Monitor Output	BNC x 1 (HD/SD switchable)
HDMI Output*1	HDMI x 1 (HDMI TypeA terminal), VIERA Link not supported
Audio Input	
Analog Input	XLR x 2 (CH1, CH2)
Digital Input	BNC x 2 (CH1/2, CH3/4), AES/EBU Format
SDI Input (Audio Input)	BNC x 1
Audio Output	
SDI Output (Audio Output)	BNC x 3
Analog Output	XLR x 2 (CH1, CH2), Monitor Output (L/R) switchable
Digital Output	BNC x 2 (CH1/2, CH3/4), AES/EBU Format
Headphone Output	φ3.5 mm Stereo Mini Jack x 1, 8 ohms, variable level
HDMI Output	2 channels (linear PCM)
Internal Speaker	Round x 1 (monaural)
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, low impedance, 2.0 V ±0.5 V [p-p]
Remote	D-SUB 9 pin x 1, RS-422A Interface
Parallel Remote	D-SUB 15 pin x 1
LAN	RJ-45 x 1, 1000BASE-T/100BASE-TX/10BASE-T
USB (Host)	USB3.0 HOST (TYPE A) x 1
USB (Device)	USB2.0 DEVICE (TYPE B) x 1
Keyboard*2	USB2.0 (TYPE A) x 1 (maximum 100 mA)
Standard Accessories	AC cable, CD-ROM (Manuals)
Note	Weight and dimensions shown are approximate. Specifications are subject to change without notice. *1: HDMI output does not support 480/59.94i and 576/50i. Convert to 480/59.94p and 576/50p for output. *2: This port is intended for keyboard connection. If the keyboard draws more than 100 mA, a protective circuit may shut down the unit.