



## 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/dk/en/products/broadcast-proav/aj-pd500>

### General

<b>Power Source</b>	AC 100-240 V, 50 Hz/60 Hz, 45 W DC 12 V, 3.6 A (included option)
<b>Operating Temperature</b>	0 °C to 40 °C (32 °F to 104 °F)
<b>Operating Humidity</b>	10 % to 80 % (no condensation)
<b>Storage Temperature</b>	-20 °C to 50 °C (-4 °F to 122 °F)
<b>Weight</b>	3.65 kg (8.05 lbs) (main unit only)
<b>Dimensions</b>	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

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

**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

**Sampling Frequency | DVCPRO50** Y: 13.5 MHz, PB/PR: 6.75 MHz

**Sampling Frequency | DVCPRO** Y: 13.5 MHz, PB/PR: 3.375 MHz

### 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

<b>Resolution</b>	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)
<b>Audio (Digital Audio)</b>	
<b>Sampling Frequency</b>	48kHz (synchronized with video)
<b>Quantizing (Audio)</b>	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
<b>Headroom</b>	12 dB/18 dB/20 dB (selectable)
<b>De-Emphasis</b>	T1=50 $\mu$ s, T2=15 $\mu$ s (auto on/off)
<b>Video Input</b>	
<b>Reference Input</b>	BNC x 1, Auto switching of black burst/HD 3-value sync
<b>SDI Input</b>	BNC x 1
<b>Video Output</b>	
<b>Monitor Output</b>	BNC x 1, SD analog composite
<b>Reference Through Output</b>	BNC x 1
<b>SDI Output</b>	BNC x 3
<b>SDI Monitor Output</b>	BNC x 1 (HD/SD switchable)
<b>HDMI Output*1</b>	HDMI x 1 (HDMI TypeA terminal), VIERA Link not supported
<b>Audio Input</b>	
<b>Analog Input</b>	XLR x 2 (CH1, CH2)
<b>Digital Input</b>	BNC x 2 (CH1/2, CH3/4), AES/EBU Format
<b>SDI Input (Audio Input)</b>	BNC x 1
<b>Audio Output</b>	
<b>SDI Output (Audio Output)</b>	BNC x 3
<b>Analog Output</b>	XLR x 2 ( CH1, CH2), Monitor Output (L/R) switchable
<b>Digital Output</b>	BNC x 2 ( CH1/2, CH3/4), AES/EBU Format
<b>Headphone Output</b>	$\phi$ 3.5 mm Stereo Mini Jack x 1, 8 ohms, variable level
<b>HDMI Output</b>	2 channels (linear PCM)
<b>Internal Speaker</b>	Round x 1 (monaural)
<b>Other Input/Output</b>	
<b>Time Code Input</b>	BNC x 1, 0.5 V [p-p] to 8.0 V [p-p], 10 k ohms
<b>Time Code Output</b>	BNC x 1, low impedance, 2.0 V $\pm$ 0.5 V [p-p]
<b>Remote</b>	D-SUB 9 pin x 1, RS-422A Interface
<b>Parallel Remote</b>	D-SUB 15 pin x 1
<b>LAN</b>	RJ-45 x 1, 1000BASE-T/100BASE-TX/10BASE-T
<b>USB (Host)</b>	USB3.0 HOST (TYPE A) x 1
<b>USB (Device)</b>	USB2.0 DEVICE (TYPE B) x 1
<b>Keyboard*2</b>	USB2.0 (TYPE A) x 1 (maximum 100 mA)
<b>Standard Accessories</b>	AC cable, CD-ROM (Manuals)
<b>Note</b>	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.