



Memory Card Recorder / Player

AJ-HPM200

Memory Card Recorder / Player with 6 card slots and advanced recording functions

Key Features

Clip Metadata Function

VariCam Speed Effects

Gamma Conversion Function for Cinema Production



AJ-HPM200

<https://eu.connect.panasonic.com/hu/en/products/broadcast-proav/aj-hpm200>

General Specification	
Power Source	AC 100 V to 240 V, 50 Hz/60 Hz 60W DC 12 V/4.8 A
Operating Temperature	0°C to 40°C (32 °F to 104 °F)
Operating Humidity	10 % to 80 % (no condensation)
Weight	6.6 kg (14.55 lbs)
Dimensions (W x H x D)	301 mm x 120 mm x 412mm (11-7/8" x 4-3/4" x 16-1/4")
Recording Format	AVC-Intra 100/AVC-Intra 50/DVCPRO HD/ DVCPRO 50/DVCPRO/DV/AVCHD *1 selectable
Recording Video Signal	1080/59.94i, 1080/23.98p, 1080/24p,1080/29.97p, 1080/25p, 1080/50i, 720/59.94p, 720/50p, 480/59.94i, 576/50i
Recording Audio Signal	AVC-Intra100/AVC-Intra50/DVCPRO HD: 48 kHz 16 bits 8 CH DVCPRO50: 48 kHz 16 bits 4 CH DVCPRO/DV: 48 kHz 16 bits 2/4 CH selectable
Recording Media	P2 card
Recording/Playback Time*2 AVC-Intra 100/DVCPRO HD 64GB Card	by single card: Approx. 64 min. using 6 card slots: Approx. 384 min.
Recording/Playback Time*2 AVC-Intra 100/DVCPRO HD 32GB Card	by single card: Approx. 32 min. using 6 card slots: Approx. 192 min.
Recording/Playback Time*2 AVC-Intra 100/DVCPRO HD 16GB Card	by single card: Approx. 16 min. using 6 card slots: Approx. 96 min.
Recording/Playback Time*2 AVC-Intra 50/DVCPRO 50 64GB Card	by single card: Approx. 128 min. using 6 card slots: Approx. 768 min.
Recording/Playback Time*2 AVC-Intra 50/DVCPRO 50 32GB Card	by single card: Approx. 64 min. using 6 card slots: Approx. 384 min.
Recording/Playback Time*2 AVC-Intra 50/DVCPRO 50 16GB Card	by single card: Approx. 32 min. using 6 card slots: Approx. 192 min.
Recording/Playback Time*2 DVCPRO/DV 64GB Card	by single card: Approx. 256 min. using 6 card slots: Approx. 1,536 min.
Recording/Playback Time*2 DVCPRO/DV 32GB Card	by single card: Approx. 128 min. using 6 card slots: Approx. 768 min.
Recording/Playback Time*2 DVCPRO/DV 16GB Card	by single card: Approx. 64 min. using 6 card slots: Approx. 384 min.
Video Specification (Digital Video)	
Sampling Frequency	AVC-Intra 100/DVCPRO HD (59.94 Hz): Y:74.17586 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 bit DVCPRO HD/DVCPRO 50/DVCPRO/DV: 8 bit
Compression Format	AVC-Intra 100/AVC-Intra 50: H.264/AVC 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 (VIDEO IN), 1.0 V[P-P] (75 ohms)
Reference Input	BNC x 1 (loop-through x 1), Black Burst/HD 3 value SYNC, 75 ohms auto
SDI (HD/SD) Input	BNC x 1, serial digital component 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
SDI (HD/SD) Output	BNC x 1, serial digital component HD Serial Digital: SMPTE 292M/296M/299M standard SD Serial Digital: SMPTE 259M-C/272M-A standard
Video Adjustment Range	
Output Gain	- ∞ to + 3 dB or - ∞ to + 6 dB
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)	24 bit/16 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% (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 μ sec, T2=15 μ sec (on/off auto)
Audio Input Signal	
Audio (Analog) Input	XLR x 4 (CH1/CH2/CH3/CH4), 600ohms /high-impedance switchable, +4/0/ - 3/ - 20 dBu switchable LINE/MIC/MIC+48V switchable at CH2 MIC: - 60 dBu, MIC+48 V: Phantom +48 V, - 60 dBu
Digital Input	BNC x 2 (CH1/2, CH3/4), AES/EBU format SMPTE 276M
SDI Input	BNC x 1 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	
Audio (Analog) Output	XLR x 4 (CH1/CH2/CH3/CH4), low-impedance, +4/0/ - 3/ - 20 dBu switchable
Digital Input (Audio Output Signal)	BNC x 2 (CH1/2, CH3/4), AES/EBU format SMPTE 276M
SDI Output	BNC x 1 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
Monitor Output	Pin jack x 2, - 8 dBV, 600 ohms
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-422A Input	D-sub 9pin, RS-422A Interface
IEEE 1394 Input/Output	6-pin x 1, 400/200/100 Mbps switchable IEEE 1394-1995 standard IEC 61883-Part1, Part2 standard SMPTE 396M standard AV/C Command Set standard
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	*1: When an AJ-YCX250G AVCHD codec board (optional) is installed. *2: All of the above 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 above. Weight and dimensions shown are approximate. Specifications are subject to change without notice.