

Panasonic CONNECT



Portable P2 deck

AG-HPD24

AVC-Intra Recording, HDMI*1 Output and USB 3.0 Interface

Key Features

FULL HD 3D Recording and Transmission

AVC-Intra High Quality Image

Supports VARICAM and other variable frame-rate videos



AG-HPD24

<https://eu.connect.panasonic.com/pl/en/products/broadcast-proav/ag-hpd24>

General	
Power Source	7.2 V DC / 7.9 V DC
Power Consumption	19.8 W
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	2 kg (4.41 lb) (without battery) 2.3 kg (5.07 lb) (with supplied battery)
Dimensions	214 mm (W) x 88 mm (H) x 200 mm (D) (8-7/16 inches x 3-7/16 inches x 7-7/8 inches) (not including the support legs)
Recording Media	
Recording Formats *1	AVC-Intra 100/AVC-Intra 50/DVCPRO HD/ DVCPRO50/DVCPRO/DV (selectable)
Recording/Playback Time	*See page 2 for Corresponding Input/Recording Formats
Video Recording Signals	1080/59.94i, 1080/50i, 1080/23.98p, 1080/24p, 720/59.94p, 720/50p, 480/59.94i, 576/50i
Audio Recording Signals	
	AVC-Intra 100/50: 48 kHz, 16 bits, 8 channels/ 24 bits, 4 channels (selectable) DVCPRO HD: 48 kHz, 16 bits, 8 channels DVCPRO50: 48 kHz, 16 bits, 4 channels DVCPRO/DV: 48 kHz, 16 bits, 2/4 channels selectable
Video (Digital Video)	
Sampling Frequencies	
	AVC-Intra 100/DVCPRO HD (59.94 Hz): Y: 74.1758 MHz, PB/PR: 37.0879 MHz AVC-Intra 100/DVCPRO HD (50 Hz): Y: 74.2500 MHz, PB/PR: 37.1250 MHz DVCPRO50: Y: 13.5 MHz, PB/PR: 6.75 MHz DVCPRO: Y: 13.5 MHz, PB/PR: 3.375 MHz
Quantization	
	AVC-Intra 100/AVC-Intra 50: 10 bits DVCPRO HD/DVCPRO50/DVCPRO/DV: 8 bits
Video Compression Methods	
	AVC-Intra 100/50: MPEG-4 AVC/H.264 Intra Profile DVCPRO HD: DV-based Compression (SMPTE 370M) DVCPRO50/DVCPRO: DV-based Compression (SMPTE 314M) DV: DV Compression (IEC61834-2)
Color Sampling	
	AVC-Intra 100: 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)
Audio (Digital Audio)	
Sampling Frequency	48 kHz (synchronized with video)
Quantization (Audio)	16 bits (DVCPRO HD/DVCPRO50/DVCPRO/DV) 16/24 bits selectable (AVC-Intra 100/AVC-Intra 50)
Headroom	12/18/20 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 tri-level sync
SDI Input (Audio)	BNC x 1
Video Output	
Video Output (Video Output)	BNC x 1, SD Analog Composite
SDI Output	BNC x 1, HD SDI/SD SDI switchable
HDMI Output	HDMI x 1 (HDMI type A), 3D supported (VIERA link not supported)
	⌘When 59.94 Hz of system frequency 1080/59.94i Frame Packing / Side-by-Side selectable (3D only), 720/59.94p Frame Packing / Side-by-Side selectable (3D only), 1080/59.94i, 720/59.94p, 480/59.94p ⌘When 50 Hz of system frequency 1080/50i Frame Packing / Side-by-Side selectable (3D only), 720/50p Frame Packing / Side-by-Side selectable (3D only), 1080/50i, 720/50p, 576/50p ⌘When 23.98 Hz of system frequency 1080/23.98p Frame Packing / Side-by-Side selectable (3D only), 1080/23.98p ⌘When 24 Hz of system frequency 1080/24p Frame Packing / Side-by-Side selectable (3D only), 1080/24p
Audio Input	
Analog Inputs	XLR x 2 (CH1, CH2)
SDI Input	BNC x 1
Audio Output	
SDI Output (Audio Output)	BNC x 1
Monitor Outputs	Pin jacks x 2, -10 dBV, 600 ohms
Headphone Output	Stereo mini jack (3.5 mm dia.), 8 ohms, variable level
HDMI Output (Audio 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 \pm 0.5 V[p-p]
RS-422A Input/Output	9-pin D-SUB x 1, RS-422A interface
USB 3.0	Host (Type A) x 1
USB 2.0	USB 2.0 Devices (Type B) x 1
For Connection of 3D REC/PB or Sync PB Modes	9-pin D-SUB x 1, RS-422A interface USB 2.0 Devices (Type A) x 1
Keyboard	USB 2.0 (Type A) x 1 (maximum 100 mA)
P2 Card Slot	P2 Card Slot x 2
SD Card Slot *2	SD/SDHC Memory Card Slot x 1
LCD Monitor	87.63 mm (3.45 inches), approx. 921,000 pixels
Included Accessories	Battery (5400 mAh), Battery charger, AC adaptor, 3D connection label and Software CD-ROM
Note	*1: 3D recording and playback is possible only in the AVC-Intra codec. *2: Multi Media Cards cannot be used. Weight and dimensions shown are approximate. Specifications are subject to change without notice.