Panasonic
ideas for life

P2HD

AJ-HPX2000

P2 cam — Memory Card Camera Recorder

Beijing 2008

Official Worldwide
Olympic Partner

AVC-INTRA DVCPRO HD DVCPRO 50 DVCPRO DV

HD/SD Multi-Format Recording, High Image Quality and Superb Mobility. High-End P2 Cam Ushers in a New Era of News Acquisition and Video Production.

The AJ-HPX2000 is the first shoulder-mounted memory card camera-recorder (P2 cam) to support HD recording. The AJ-HPX2000 combines a high-image-quality, high-sensitivity HD camera with a memory card to provide all of the advanced P2 solid-state functions. Its multi-format capability lets you record in 1080i/720p HD or SD. The AJ-HPX2000 brings new solutions to the production of news and information programs with the recording functions made possible by P2 multi-card slots, such as card selection, hot-swap and loop rec. It also provides immediate transmission with a clip thumbnail display and the convenience of proxy and metadata. It expands HD's flexibility by putting ING (IT-based news gathering) into your hands with its outstanding mobility, operational readiness and cost-efficiency. The AJ-HPX2000 offers a host of functionality designed specifically for news acquisition and other broadcasting applications, including high-sensitivity digital super gain, DRS (Dynamic Range Stretcher), and digital zoom.

Progressive HD CCD

In the new system, a progressive CCD lets you shoot 60p images and use progressive/interlace conversion to attain 1080/59.94i images. This produces outstanding image quality and high sensitivity. It also provides native progressive images in 24p/30p mode.

High-Sensitivity F10 Aperture and Digital Super Gain

The high-sensitivity F10 aperture and digital super gain (frame cumulative mode) let the AJ-HPX2000 record with a high S/N ratio*1 and less of the noise that commonly comes with higher gain. The AJ-HPX2000 also features a line mix function for great fast-action images. The gain, digital super gain and line function can be flexibly combined to achieve highly sensitive recording of up to +74 dB*2 or to suit different shooting conditions.

Nomal Gain UP Image

Digital Super Gain UP Image

*1: Due to the use of image accumulation, the number of recorded frames per second decreases. This results in a frame-by-frame playback effect. *2: With super gain set at +48 dB, digital super gain (6P cumulative mode) at +20 dB, and line mix at +6 dB

DRS (Dynamic Range Stretching) Function

DRS recognizes the average brightness of highlight and shadow areas and then automatically adjusts the aperture and uses knee control to suppress blown highlights in the shadow areas. In scenes with mixed dark and light areas, such as when moving from indoors to outdoors, DRS automatically provides a wider dynamic range with minimal blown highlights and blocked shadows, eliminating the need to manually tweak the camera for each specific condition.

Maximum 4x Digital Zoom

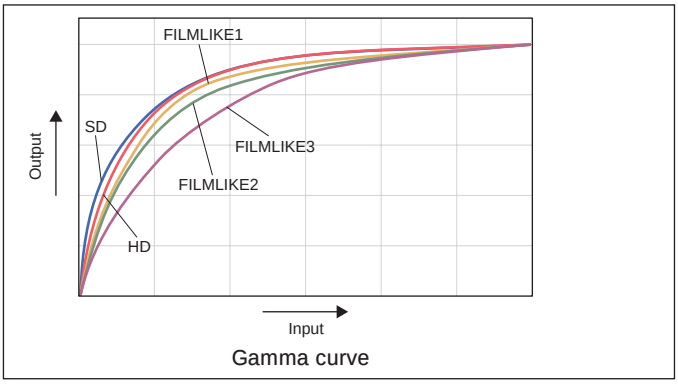
The AJ-HPX2000's digital zoom electronically increases the magnification rate of the lens by 2x, 3x or 4x. HD images retain their superior resolution even with zooming, and — unlike when a lens extender is used — brightness is not reduced. It's ideal as both a shooting technique and focusing support.

DRS "OFF" Image

DRS "ON" Image

14-bit Digital Processing with 5-Mode Gamma

In the AJ-HPX2000, we offer a 14-bit A/D conversion system, an upgrade over the conventional 12-bit system. We also incorporated a new high-performance digital signal processing (DSP) circuit. The 12-axis color correction matrix lets you make fine adjustments in specific color regions. Functions such as skin detail let you further fine-tune the image.
The DSP circuit also has selectable gamma curves. The mode can be selected from SD, HD, Filmlike 1, Filmlike 2 and Filmlike 3 to expand the video production scope.



Gamma curve

Scene Files and Lens Files

- Scene Files: Store specific camera settings in built-in memory, then retrieve them when needed for quick, easy setup. Four files with settings can be stored in the camera's memory. Files can also be copied onto an SD/SDHC Memory Card, allowing storage of up to eight files.
- Lens Files: Store settings for interchangeable lenses. Eight files can be stored in the camera unit, and 64 (8 x 8) files can be saved on an SD/SDHC Memory Card.

Shooting Assist Functions

- Three User Buttons: Assign a function to each, and then you can select functions with pushbutton ease.
- Auto Tracking White Balance
- Focus Assist: Facilitates focusing by displaying the frequency distribution of video signals on a graph.
- Variable Color Temperature: Color temperature can be adjusted with the jog dial after the white balance is set.
- Electronic Shutter with Half-Speed: Six fixed speeds of up to 1/2000 sec, plus "half-speed" (180-degree) slow and synchro-scan capability.
- Rec Review function for easy checking of recorded results
- 4-position optical filter

HD/SD Multi-Format Recording

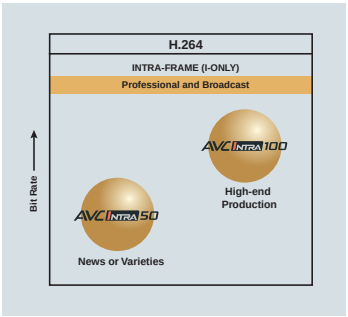
By driving the HD CCDs in progressive mode at all times, the AJ-HPX2000 records in a total of 30*1 HD/SD formats. This meets the needs of news, TV program, and general video production. Because the AJ-HPX2000 supports all of the HD/SD formats used around the world, it can produce videos for overseas broadcasts and for use in overseas markets. It uses the DVCPRO HD or AVC-Intra*2 codec to record in 1080i/720p HD. For SD recording, the AJ-HPX2000's multi-codec capability lets you choose from DVCPRO 50, DVCPRO and DV.

*1: A software upgrade for the camcorder is necessary for some HD formats. Please see Panasonic web for the details. <https://eww.pavc.panasonic.co.jp/pro-av/support/desk/e/index.htm>

*2: When the AJ-YBX200G AVC-Intra Codec Board is mounted.

New AVC-Intra Option

The P2 HD Series also support the new AVC-Intra codec by mounting the optional AJ-YBX200G AVC-Intra Codec Board. AVC-Intra, the industry's most advanced compression technology, is a professional intra-frame video codec with bit rates of 50 and 100Mbps, utilizing the Hi-10 and Hi-422 profiles of H.264 respectively.



AVC-Intra provides high-quality 10-bit intra-frame encoding in two modes: AVC-Intra 100 for full-raster mastering video quality, and AVC-Intra 50 Mbps for DVCPRO HD quality at half the bit rate, thereby doubling the record time on a P2 card.

48-kHz/16-bit, 4-Channel Digital Audio

The AJ-HPX2000 can record full 48-kHz/16-bit digital audio on all four channels. You can freely select the audio source for each channel, choosing from mic, line, wireless receiver, and others.
A 5-pin XLR jack with 2-channel compatibility is used for the front mic input. Using the AJ-MC900G optional stereo microphone lets you record stereo with a single mic.

The P2 Card Offers Outstanding Mobility and Reliability

The 32GB*1 P2 card (AJ-P2C032RG) offers great flexibility and interoperability with leading NLE systems and boasts a high data transfer speed of 640 Mbps*2 max. It records AV data in the MXF file format. This solid-state memory card is highly resistant to shock and vibration, so it offers high reliability and stable recording in the field.
The P2 card brings a totally new level of mobility to outdoor shooting. It lets the camera start recording immediately from standby mode, and allows shooting to start within two seconds of turning the power on. This speedy response shortens downtime when replacing batteries, and greatly cuts down on battery power consumption by letting you turn the power off during standby. P2 cards can even be exchanged with the power off.
Recorded data is automatically stored in blank card areas with no cueing required. This eliminates the risk of accidentally overwriting valuable data.

*1: Use of the 16GB/32GB card may require a software upgrade for the camcorder. Total card capacity includes space for data management such as system data, therefore, actual usable area is less than capacity indicated on the card.

*2: This data transfer speed is theoretical value. An actual data transfer speed varies according to operating condition and devices.

HD Recording format supported by AJ-HPX2000

HD Format	Pulldown	Recording Time (With five 32GB P2 cards)		
		DVCPRO HD	***AVC-Intra 100***	***AVC-Intra 50***
1080/59.94i	—	160 min.	160 min.	320 min.
1080/29.97P (over 60i)	2-2		—	—
1080/23.98P (over 60i)	2-3		—	—
1080/23.98PA (over 60i)	2-3-3-2		—	—
1080/29.97PN (native)*1 *3	—	—	160 min.	320 min.
1080/23.98PN (native)*1 *3	—	—	200 min.	400 min.
1080/50i	—	160 min.	160 min.	320 min.
1080/25P (over 50i)	2-2		—	—
1080/25PN (native)*1 *3	—	—	160 min.	320 min.
720/59.94P	—	160 min.	160 min.	320 min.
720/29.97P (over 60P)	2-2		—	—
720/23.98P (over 60P)	2-3		—	—
720/29.97PN (native)*2 *3	—	320 min.	320 min.	640 min.
720/23.98PN (native)*2 *3	—	400 min.	400 min.	800 min.
720/50P	—	160 min.	160 min.	320 min.
720/25P (over 50P)	2-2		—	—
720/25PN (native)	—	320 min.	320 min.	640 min.

SD Recording format supported by AJ-HPX2000

SD Format	Pulldown	Recording Time (With five 32GB P2 cards)	
		DVCPRO 50	***DVCPRO/DV***
480/59.94i	—	320 min.	640 min.
480/29.97P (over 60i)	2-2		
480/23.98P (over 60i)	2-3		
480/23.98PA (over 60i)	2-3-3-2		
576/50i	—	320 min.	640 min.
576/25P (over 50i)	2-2		

*1: Requires an AJ-YBX200G AVC-Intra Codec Board, and a software upgrade for the camcorder.

*2: Some models require software upgrade for the camcorder. Please see Panasonic web for the details. <https://eww.pavc.panasonic.co.jp/pro-av/support/desk/e/index.htm>

*3: Native modes record only the effective frames.

Recording Functions with Five P2 card Slots

The AJ-HPX2000 has slots for five P2 cards and lets you record continuously onto all five in sequence. It also provides several entirely new recording functions that are possible only with memory cards.

•Card selection: The recording slot can be changed (sequential switching) even during recording. This lets you retrieve and transmit just-recorded news material, without interrupting the recording. Recorded content can also be organized while shooting, by switching cards for each scene category.

•Hot-swap-rec: You can replace a full memory card with a blank one while the P2 cam is recording onto a second card. Successively swapping cards this way gives you virtually unlimited recording capability.

•Loop-rec: By loop recording onto a specified recording area, you can continue to record over a fixed area.

•Pre-rec: While in standby mode, you can continuously store, and subsequently record, up to 15 seconds of video and audio (in DVCPRO). In effect, this lets you record footage of events that occur even before you press the rec start button, giving you a way to "go back" and capture moments you otherwise would have missed.

•Interval rec: Recording one frame at a time at set intervals (from 2 frames to 10 min), this mode is useful for monitoring and special ultra-undercranking effects.

Clip Thumbnail Function

The P2 cam automatically generates a thumbnail image for each clip. You can view thumbnails on the 3.5" color LCD monitor on the P2 cam's side. Any of the clips can be accessed instantly. Thumbnail images can be paused, fast-forwarded, and reversed just like a tape, and unwanted cuts can be deleted by selecting and deleting the corresponding thumbnail image. You can also specify a number of clips for seamless playback* or on-air broadcasting. And if a shooting opportunity should arise during playback, the P2 cam lets you start recording immediately with no cueing required and no risk of accidentally overwriting valuable data.

*Seamless playback is not possible between clips recorded in different formats.SD Memory Card Slot

Text Memo (Bookmark) for Simple Editing

When recording or previewing a clip, press the Text Memo button at any of up to 100 locations and a text memo label, similar to a bookmark, is registered. Using only the P2 cam, you can create a new clip with data copied between text memo labels. Text information can also be written into each memo using the AJ-HPX2000 or a PC with P2 Viewer installed. A shot mark, which allows convenient OK and NG marking, can also be added to each clip during or after recording.

SD Memory Card Slot

The AJ-HPX2000 comes with an SD Memory Card slot. You can create a metadata upload file (produced with P2 Viewer) containing information such as the name of camera operator, the name of the reporter, the recording location, and text memos on an SD Memory Card, and load it as clip metadata.

USB 2.0 Interface Compatible with Host Mode

In device mode, the P2 cam's card slot can be used to connect a PC as an external device for nonlinear editing and transmission over networks. In host mode, P2 files can be copied onto a hard disk without using a PC.

Digital Backup Recording (HD-SDI/IEEE 1394)

The AJ-HPX2000's standard HD-SDI output simultaneously backs up recordings to an external digital VTR (such as the AJ-HD1400) in sync with the REC start/stop. An IEEE 1394 compliant DVCPRO output terminal (6-pin) is also provided on the AJ-HPX2000. The AJ-HPX2000 can output DVCPRO HD/DVCPRO data without decoding for backup recording with minimum degradation to a digital device like the FS-100 FireStore manufactured by FOCUS. It also enables desktop HD editing when connected to a PC/Mac nonlinear editing system. The AJ-HPX2000's HD-SDI and IEEE 1394 digital output capabilities allow the use of a wide variety of broadcasting and IT-based devices.

*For system compatibility details, visit our website.
<https://eww.pavc.panasonic.co.jp/pro-av/sales_o/ieee1394/index.html>

HD SDI/SD Down-Conversion Output

The AJ-HPX2000 comes equipped with two BNC video line outputs for flexible monitoring or line recording use.

•VIDEO OUT: Switchable between HD-SDI/SD-SDI (down conversion) and analog composite (down conversion) output.
•MON OUT: Outputs down-converted SD video only. Switchable to analog composite (thumbnail output possible), VF or Y.

Proxy Data Recording (Option)

Mount an AJ-YAX800G Video Encode Card, and the AJ-HPX2000 records an MPEG4 proxy (low-resolution) data — enhancing news production and simplifying long format program editing, including documentaries and reality television — onto the card along with full-resolution data. The three levels of proxy video available are 1.5 Mbps, 768 kbps and 196 kbps. Proxy data can also be recorded onto an SD Memory Card mounted in the slot provided, for easy viewing on a laptop PC. The encode card, available as an option, lets you upgrade as future image encode systems evolve.

*Proxy data is AV data with low-resolution MPEG4 video and audio containing time code, metadata, and other control information.

*Use of DCF technologies under license from Multi-Format, Inc.

HD/SD SDI Line Recording (Option)

When the AJ-YA350AG optional HD/SD SDI input board is installed, HD/SD line recording is possible from SDI (serial digital) input. This is extremely useful in Broadcast applications, including news pool feeds acquisition.

*The input signal must be in the same format as the recording format of the camera-recorder.

New Remote Control Unit

The AJ-HPX2000 comes equipped with a 10-pin RCU terminal for connecting the optional AJ-RC10G Remote Control Unit. The AJ-RC10G comes with a 10-pin multi-cable that can connect to the AJ-HPX2000's down-conversion video OUT terminal for monitoring at the RCU. The AJ-RC10G provides detailed control of the AJ-HPX2000's camera and recorder functions.

GPS Unit (Option)

By mounting the optional AJ-GPS910G GPS unit, the AJ-HPX2000 can record real-time position data (latitude, longitude, and altitude), conforming to UMID standards.

* The GPS unit is not available in some areas.

Other System Functions and Options

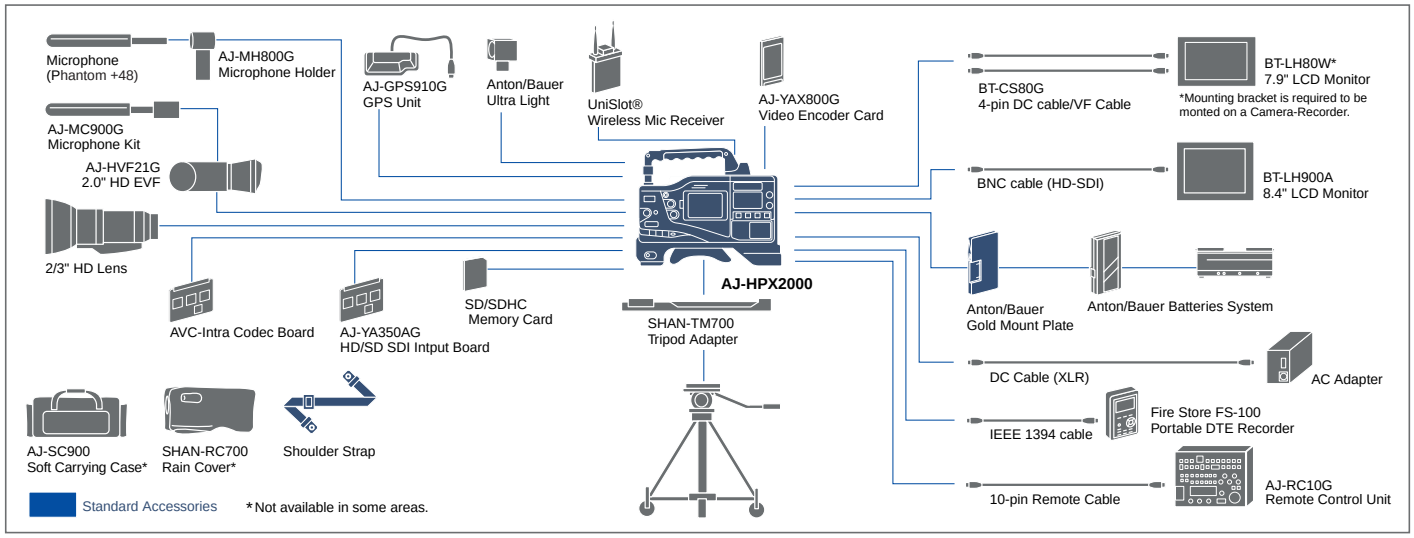
•DC power supply for the BT-LH80W 8.4" LCD monitors
•Color bar (switchable between SMPTE, ARIB, and full color) and standard audio signal (1-kHz test tone) output
•Built-in SMPTE time code generator/reader, with time code In/Out terminal
•Genlock input terminal can also be used as return video (HD-Y/VBS)
•Multiple battery support, including Anton Bauer batteries
•UniSlot® wireless receiver compatible

* UniSlot® is a trademark of Ikegami Tsusinki Co., Ltd.

Designed for Easy Operation

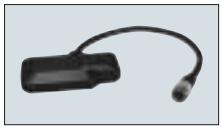
The position, function, and shape of all switches, dials and terminals have been designed in response to feedback from video professionals to allow quick operation and prevent errors for greater reliability.

•The Audio Rec level adjustment features a push lock function.
•The Audio Input level adjustment (front) can be switched ON/OFF and allocated to desired channels.
•A 3-point locking viewfinder mount allows precise adjustment.



SUPPORTING EQUIPMENT AND PERIPHERALS

AJ-HVF21G
2" HD EVF 59.94Hz/50Hz switchable

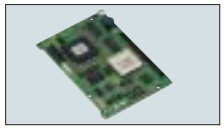


AJ-GPS910G
GPS Unit
*Not available in some areas.

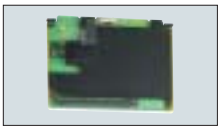
AJ-MC900G
Stereo Microphone (5-pin)

AJ-MH800G
Microphone Holder

SHAN-TM700
Tripod Adapter



AJ-YBX200G
AVC-Intra Codec Board



AJ-YA350AG
HD/SD Input Board

SD/SDHC memory card

AJ-P2C032RG
AJ-P2C016RG
P2 card

AJ-SC900
Soft Carrying Case
*Not available in some areas.

SHAN-RC700
Rain Cover
*Not available in some areas.

FireStore FS-100
Portable DTE Recorder
(FOCUS Enhancements, Inc.)

AJ-RC10G
RCU (Remote Control Unit) with 10m Cable
• Option: AJ-C10050G 50m Remote Control Cable

BT-LH80W
7.9"Wide HD/SD LCD monitor
• Option: BT-CS80G Vewfinder Cables, BT-YA80G SDI INput Unit

BT-LH900A
8.4" HD/SD LCD monitor

BT-LH1700W
17"Wide HD/SD LCD monitor

BT-LH2600W
26"Wide HD/SD LCD monitor

Anton/Bauer
Battery System

AJ-HPX2000 SPECIFICATIONS

General Specification

Power Source:	DC 12V (11.0V to 17.0V)
Power Consumption:	36W (LCD Monitor Off) 43W (SDI-IN, with AVC-Intra option,LCD Monitor ON)
Operating Temperature:	32°F to 104°F (0°C to 40°C)
Keeping Temperature:	–4°F to 140°F (–20°C to 60°C)
Operating Humidity:	10% to 85%
Operating Time:	Approx. 120 min. (when using DIONIC90 battery)
Weight:	10.0 lbs (4.5 kg), main unit only, without VF mount
Dimensions (W x H x D):	5-3/16" x 8-1/2" x 12-91/2" (137 x 209 x 317 mm) without handle and wireless option cover

Camera Section

CCD Elements:	2/3-inch CCD x 3
Picture Element:	Total: 1370 (H) x 744 (W), Active: 1280 (H) x 720 (W)
Optical Filters:	1: 3200K, 2: 5600K+1/8ND, 3: 5600K, 4: 5600K+1/64ND
Quantizing:	14 bits
Horizontal Drive Frequncy:	74.1758 MHz (59.94 Hz), 74.25 MHz (50 Hz)
Sampling Frequncy:	74.1758 MHz (59.94 Hz), 74.25 MHz (50 Hz)
Digital Signal Process:	74.1758 MHz (59.94 Hz), 74.25 MHz (50 Hz)
Programmable Gain:	–3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB
Digital Super Gain:	+6/+10/+12/+15/+20 dB
Line Mix Gain:	+6 dB (ON/OFF)
Super Gain:	+30/+36/+42/+48 dB
Shutter Speed:	1/60 (50Hz),1/100 (59.94Hz),1/120/, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF
Syncro Scan Sutter:	1/60.3 to 1/249.8 sec. (59.94Hz), 1/30.2 to 1/249.8 sec. (29.97Hz), 1/24.1 to 1/249.8 sec. (23.98Hz), 1/50.2 to 1/209.5 sec. (50 Hz), 1/25.2 to 1/209.5 sec. (25 Hz)
Lens Mount:	2/3-inch bayonet mount
Optical System:	F1.4 Prizm
Sensitivity:	F10 (at 2,000 lx)
Minimum Luminance:	0.007lx (F1.4, Super gain +48dB, Digital super gain +20 dB, Line mix gain +6dB)
Video S/N:	54 dB (standard)
Horizontal Resolution:	700 lines (at center standard)
Registration:	Less than 0.03% (whole zone, without lens distortion)

Memory Card Recorder Section

Recording Format:	DVCPRO HD/DVCPRO 50/DVCPRO/DV Format switchable AVC-Intra100/AVC-Intra50 are available with optional AJ-YBX200G.		
Recording Video Signal:	1080/59.94i, 720/59.94p, 480/59.94i, 1080/50i, 720/50p, 576/50i		
Recording Audio Signal:	DVCPRO HD: DVCPRO 50: DVCPRO/DV:	48kHz/16bits, 4CH 48kHz/16bits, 4CH 48kHz/16bits, (2CH/4CHswitchable)	
Recording Media :	P2card		
Recording Playback Time*:	when using 32GB P2card AJ-P2C032RG		
		by single card	using 5 card slot
	DVCPRO HD	Approx. 32 min.	Approx. 160 min.
	DVCPRO 50	Approx. 64 min.	Approx. 320 min.
	DVCPRO/DV	Approx. 128 min.	Approx. 640 min.

* Time shown above is when you record a series of 1 shot to P2 card. Depending on numbers of shots you record, time will get shorter than the number shown above.

•Digital Video

Sampling Frequncy:	DVCPRO HD (59.94 Hz): Y:74.1758 MHz, PB/PR:37.0879 MHz DVCPRO HD (50 Hz): Y:74.25 MHz, PB/PR:37.125 MHz DVCPRO 50: Y:13.5 MHz, PB/PR:6.75 MHz
Quantizing:	8 bits
Video Compression Ratio:	DVCPRO HD: 1/6.7 (except 1080-50i/25P), 1/6.3 (1080-50i/25P) DVCPRO 50: 1/3.3, DVCPRO/DV: 1/5
Video Recording bit Rate:	DVCPRO HD: 100 Mbps, DVCPRO 50: 50Mbps, DVCPRO/DV: 25Mbps

•Digital Audio

Sampling Frequncy:	48 kHz (sync. with video)
Quantizing :	16 bits
Frequncy Response:	20 Hz to 20 kHz, ±1.0dB (reference level)
Dynamic Range:	More than 85 dB (1 kHz, AWTD)
Distortion:	Within 0.1% (1 kHz, reference level)
Headroom :	20dB

Input and Output

GENLOCK IN:	BNC, 1.0 Vp-p, 75 Ω (switchable to VIDEO IN or Return Video)
MONITOR OUT:	BNC x 1, 1.0Vp-p, 75Ω Composite
VIDEO OUT:	BNC x 1, 1.0Vp-p, 75Ω Composite (switchable to HD-SDI/SD-SDI) HD-SDI: 0.8Vp-p, 75Ω, (SMPTE292M/296M/299M) SD-SDI: 0.8Vp-p, 75Ω, (SMPTE259M-C/272M-A/ITU-R.BT656-4)
TC IN:	BNC x 1, 0.5 to 8Vp-p, 10kΩ
TC OUT:	BNC x 1, low-impedance, 2.0±0.5Vp-p
DVCPRO/DV:	6pin (Input and Output), Transfer Speed: 400/200/100 Mbps (selectable) Data: IEEE 1394-1995/1394a-2000, IEC61883-1,2, SPMTE396M standards Control Command: AV/C Command Set
SDI-IN (option):	BNC x 1, 0.8Vp-p, 75Ω (AJ-YA350G) HD: SMPTE292M/296M/299M SD: SMPTE259M-C/272M-A/ITU-R.BT656-4
AUDIO IN : (CH1/CH2)	XLR-3pin x 2, LINE/MIC/MIC+48Vswitchable LINE:-3/0/+4dBu selectable MIC :-60/-50dBu selectable MIC+48V: Phantom +48 V, –60/–50 dBu selectable
MIC IN:	XLR-5pin x 1, -50/–40dBu selectable, Phantom +48 V ON/OFF
WIRELESS IN:	D-sub 25-pin, –40 dBu
AUDIO OUT (CH1/CH2) :	XLR 5-pin, balanced, low-impedance, -3/0/+4 dBu selectable
PHONES OUT:	Stereo Mini Jack x 2
DC IN:	XLR-4-pin x 1, DC12V (11 to 17V)
DC OUT:	4 pin, DC12V (11 to 17V), Max.1.5A
LENS:	12-pin
EVF:	20-pin
ECU:	10pin (for AJ-RC10G)
GPS:	6-pin (for AJ-GPS910G)
USB (2.0):	HOST: 4-pin (Type-A), DEVICE: 4-pin (Type-B)

Included Accessories

Shoulder strap, Front audio volume knob (with screw)

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

Panasonic P2HD "No Cost" 5 Year Warranty Repair Program*1

Thank you for purchasing this Panasonic P2HD device.
Register as a owner for this device to receive a special service warranty up to five years of free warranty repairs.

Customers who register as owners on the website will receive a "no cost" extended warranty repair valid for up to five years.

	1st year	2nd year	3rd year	4th year	5th year*5
P2 HD device*2	Basic warranty*3	"No cost" extended warranty repair*4			

*1: Please note that this extended warranty is not available in some countries/regions see web site below for details . *2: Not all models eligible for extended warranty coverage. *3: The basic warranty period may vary depending on the country/region see enclosed warranty for warranty coverage. *4: Not all repair work is covered by this extended warranty see warranty card enclosed with the product for warranty coverage. *5: The maximum warranty period may be adjusted depending on the number of hours the device has been used.

Purchase P2 product → Register online within → "Registration Complete" e-mail sent → **Free 5 years of Warranty Repairs**

Make sure to save the "Registration Complete" e-mail during the warranty period.

Details about user registration and the extended warranty: http://panasonic.biz/sav/pass_e

Panasonic

PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY
UNIT OF PANASONIC CORPORATION OF NORTH AMERICA
www.panasonic.com/broadcast

Executive Office: One Panasonic Way, 4E-7, Secaucus, NJ 07094 (201) 348-5300
EASTERN ZONE: (including Southeast) One Panasonic Way 4E-7, Secaucus, NJ 07094 (201) 348-7196
WESTERN ZONE: (including Southwest) 3330 Cahuenga Blvd W., Los Angeles, CA 90068 (323) 436-3608
Government Sales: (201) 348-7587

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3 (905) 624-5010
www.panasonic.ca e-mail: broadcast@panasonic.ca

Panasonic Puerto Rico, Inc.
San Gabriel Industrial Park, 65th Infantry Ave., Km. 9.5, Carolina, Puerto Rico 00630 (787) 750-4300

Matsushita Electric Industrial Co., Ltd.
Systems Business Group
2-15 Matsuba-cho, Kadoma, Osaka, 571-8503 Japan
Tel. 81-6-6905-4650 Fax. 81-6-6908-5969
https://eww.pavc.panasonic.co.jp/pro-av/

Panasonic Systems Sales Taiwan Co.,Ltd.
5F, 2 Sec. 5 Hsin I Road Taipei, Taiwan
Tel. 886-2-2725-9100 Fax. 886-2-2725-9291

Panasonic Korea Ltd.
Seohyun B/D, 1718-9, Seocho-Dong, Seocho-Gu, Seoul, Korea
Tel. 82-2-2106-6641 FAX. 82-2-533-8766

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Tel. 52-55-5488-1000 Fax. 52-55-5575-6763

Panasonic Latin America S.A.
(Caribe,Centro America, Venezuela, Colombia, Ecuador, Bolivia, Uruguay, Paraguay, Chile)
Tel. 507-229-2955 Fax. 507-229-2536

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SP-HPX2000P2

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20K710ZM-2 Printed in Japan