Panasonic ideas for life





A Universal HD Camera-Recorder that Puts High-End Performance Within Your Reach



QUALITY

The 720p/1080i HD Multi-Format Camera

Able to record in the 11 HD formats listed below, the AJ-HDX900 can produce content for use virtually anywhere in the world. And with its versatile features, the AJ-HDX900 can be used to produce virtually any kind of HD video content — TV programs, music videos, stock footage, corporate video and much more.

Records in these HD Formats

	59.94Hz area	50Hz area
1080	1080/59.94i	1080/50i,
	1080/29.97p (over 59.94i)	1080/25p (over 50i)
	1080/23.98p (over 59.94i)	
	1080/23.98pA (over 59.94i)	
720	720/59.94p,	720/50p,
	720/29.97p (over 59.94p),	720/25p (over 50p)
	720/23.98p (over 59.94p)	

Progressive HD CCD Provides High Sensitivity and Superior Image Quality

The 2/3" 1-million-pixel IT 3CCD system delivers superb HD imagery combined with exceptional sensitivity of F10 at 2,000 lux. The AJ-HDX900 can capture outstanding shots in lighting as low as 0.032 lux (at +62 dB gain). The native progressive video format, which drives the CCDs continuously in progressive mode, outputs high-quality HD images that are suitable for use in filmlike production or in combination with computer graphics.

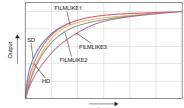
14-bit Digital Conversion

In the AJ-HDX900, we offer a 14-bit A/D conversion system, an upgrade over a 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.

New Filmlike 3 Gamma Curve

We also added a new Filmlike gamma mode called Filmlike 3, to the popular Filmlike 1 and Filmlike 2 gamma modes found in the AJ-SDX900 and AJ-HDX400. Filmlike 3 produces a film-like

texture that makes images more emotionally expressive. This makes Filmlike 3 a good choice for certain TV programs, music and video clips, and other content.



Gamma Curve







Filmlike 3 Gamma Image

DVCPRO HD: Professional Quality Pictures

Designed to broadcast specifications, the DVCPRO HD codec combines a video bit rate of 100 Mbps with 4:2:2 sampling and intra-frame compression. This reliable recording system also minimizes quality degradation with fast-moving subjects and is highly resistant to drop-out.

The DVCPRO HD-LP format allows 33 minutes of recording on a medium-size cassette with reliable 1/4" metal particle tape.

New DRS (Dynamic Range Stretching) Function

DRS further extends the auto knee function. It 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 with no need to manually tweak the camera for each specific condition.





DRS "OFF" Image

DRS "ON" Image

Digital Super Gain (Cumulative Mode)

The AJ-HDX900 provides an easy-to-use, pushbutton super gain function with a maximum gain of +36 dB. In addition, it introduces a new digital super gain (in cumulative mode) utilizing the variable frame rate technology of Varicam and allowing an extra gain of +20 dB (at 6 fps). Unlike conventional gain adjustment, digital super gain is virtually noise-free*, so picture quality is preserved intact. With super gain and digital super gain, the AJ-HDX900 allows ultra-high-sensitive shooting at up to +62 dB.





Nomal Gain UP Image

Digital Super Gain UP Image

*At maximum gain (+62 dB) there may be a slight amount of noise.

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

The AJ-HDX900 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.



FUNCTIONS

User 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 Memory Card, allowing storage of up to eight files.



Customized User Buttons

Three user buttons are provided. Assign a function to each, and then you can select those functions with pushbutton ease. You can also customize the on-screen menu with the items you use most often, and display them by simply pressing a button. One of the three user buttons can be isolated as a USER MAIN button for easy blind-touch operation.

Prerecording Function

The AJ-HDX900 is ready to catch sudden, spontaneous scenes you might otherwise miss. When the camera is in standby mode, the prerecording function continually stores in memory up to 7 seconds (presettable) of the most recent video and audio material entering the camera. When you press the REC button, that material is recorded onto the tape before real-time recording begins.

Interval Recording and One-Shot Recording

The interval REC function records at preset intervals, which is useful in monitoring or observation applications, or when you want to create a frame-by-frame effect.

Use the One-shot REC function, which starts recording each time you press the REC button, to create claymation and other special-effect productions.

On-Screen Menu

The AJ-HDX900 features the same easy-to-use menu layout that was so popular in the AJ-SDX900. You can customize the menu and create a unique user menu that displays the items you use most often.

Electronic Shutter with "Half-Speed" and Syncro-Scan

The electronic shutter has six fixed speeds of up to 1/2000 sec, plus "Half-Speed" (180 degree) slow and synchro-scan capability.

Shutter Speed (50Hz):	1/60, 1/120, 1/250, 1/50 1/2000 sec. and Harf (1	
Shutter Speed (59.94Hz):	1/100, 1/120, 1/250, 1/5 1/2000 sec. and Harf (1	
Syncro Scan Shutter:	1/60.3 to 1/249.8 sec. 1/30.2 to 1/249.8 sec. 1/24.1 to 1/249.8 sec. 1/50.2 to 1/209.5 sec. 1/25.2 to 1/209.5 sec.	(59.94 Hz) (29.97 Hz) (23.98 Hz) (50 Hz) (25 Hz)

Lightweight, Well Balanced Body

The AJ-HDX900 offers a lightness in operation that is not entirely reflected in its 9.9-lb (4.5-kg) weight. Designed specifically to provide excellent balance while shooting, it doesn't become frontheavy when equipped with lens, battery, and wireless receiver. Camera work is comfortable because the AJ-HDX900 maintains a natural, horizontal position when held on the shoulder or lifted by the handle. The body height is also minimized to give the operator a clear view front and rear.

Designed for Ease of 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.
- The Easy-Slide Shoulder Pad can be slid with one hand, and securely locked in position.
- A 3-point locking viewfinder mount allows precise adjustment.





Power-Save Management (SAVE REC) Function

This function reduces power consumption during recording to a low 36 watts by interrupting playback-related circuits.

Enhanced Camera Functions and Specifications

- Displays a zebra pattern for contrast adjustment, auto white balance setting, and color bar output.
- One touch of the mode check button displays the camera settings for easy confirmation.
- Displays markers for 4:3 screen (side cut) indication to let you check the trimming while shooting in SD.
- ND filter (CLEAR, 1/4ND, 1/16ND, 1/64ND) and CC filter (Cross, 3200K, 4300K, 6300K).
- Rec Review function for easy checking of recorded results
- Quick response: enters standby mode about 3 seconds after the power is turned on; begins recording in about 0.5 second (2 seconds in Power Save mode).







Supports the New RCU

The AJ-HDX900 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-HDX900's down-conversion video OUT terminal for monitoring at the RCU. The AJ-RC10G provides detailed control of gamma, flare and the AJ-HDX900's versatile paint functions. The AJ-RC10G has a slot for SD memory card; you can save scene settings on a memory card for easy transfer to other cameras.

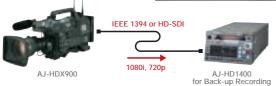
IEEE 1394 for Easy Backup

The AJ-HDX900 comes with an IEEE 1394 (6-pin) output terminal for degradation-free output of DVCPRO HD compression data in all HD formats. Data can be captured directly to a DVCPRO HD-

compatible nonlinear editor.

Also, connect the AJ-HDX900 to a DVCPRO HD digital VTR (such as the AJ-HD1400 or HD1200A) or FOCUS FireStore FS-100 hard disk recorder, and you can record on the AJ-HDX900 while simultaneously making a backup copy on the connected unit.





* Please refer "IEEE1394 Compatibility Table" at https://eww.pavc.panasonic.co.jp/pro-av/.

HD SDI/SD Down-Conversion Output

The AJ-HDX900 comes equipped with two BNC video line outputs for flexible monitoring or line recording use.

- MON OUT: Outputs EE or VTR playback images in HD-SDI or HD-Y format
- VIDEO OUT: Switchable between HD-SDI/SD-SDI (down conversion) and analog composite (down conversion) output.



AJ-RC10G Remote Control Unit

A dedicated selector switch improves operating ease. The HD/SD down converter comes built-in. Aspect mode is selectable. Provides the high image quality needed for either monitoring or live on-air transmission.

DC Power Supply for an LCD Monitor

A 1.5-A DC output (4-pin) is provided for powering the BT-LH900 or LH900A 8.4" LCD monitor, which can serve as a viewfinder.

GPS Unit

By mounting the optional AJ-GPS900G GPS unit, the AJ-HDX900 can record real-time position data (latitude, longitude, and altitude) onto the tape, conforming to UMID standards.

Other Functions

- Shading correction function that adjusts for use of a lens extender.
- 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
- Multiple battery support, including Anton Bauer batteries
- UniSlot® wireless receiver compatible

^{*} GPS unit is not available in some areas.

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

OPTIONS



AJ-HVF21G 2" HD EVF 59.94Hz/50.00Hz switchable



AJ-GPS900G GPS Unit *Not available in some areas.



AJ-MC900G Stereo Microphone (5-pin)





SHAN-TM700 Tripod Adapter



SD Memory Card



Anton/Bauer Ultra Light



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



Anton/Bauer Battery Charger Package HTP-T230



Anton/Bauer Dionic Batery



Anton/Bauer Battery Charger



Anton/Bauer TITAN70 AC Adaptor/ Battery Charger



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



AJ-HT901G Hard Carrying Case *Not available in some areas.



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



AJ-RC10G RCU (Remote Control Unit) • 10P Remote Cable 10m



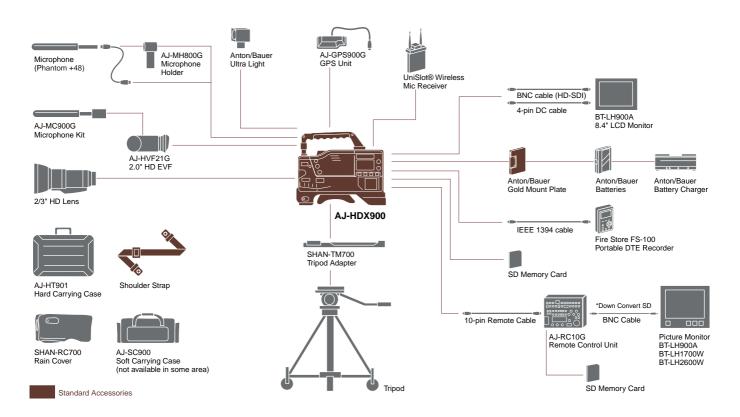
 BT-LH900A
 8.4" HD/SD LCD monitor

 BT-LH1700W
 17"Wide HD/SD LCD monitor

 BT-LH2600W
 26"Wide HD/SD LCD monitor



AJ-HD1400 DVCPRO HD Recorder • Equipped with IEEE 1394 and HD-SDI



PECIFICATIONS

DC 12 V (11 V to 17 V)	Conoral	
Power Consumption: 36 W 10 % to 85 %	General Power Supply:	DC 12 V (11 V to 17 V)
Operating Humidity: 10 % to 85 % Operating Temperature: 32°F to 104°F (0°C to +40°C) Dimensions: 5-1/16" x 10-11/16" x 13" (W x H x D) (129 x 271 x 329 mm) Weight: About 9.9 bs (4.5 kg) About 16.7 lbs (7.6 kg) in full-operation Continuous Rec Time: About 120 min. with Anton/Bauer Dionic 80 Camera Section C2 Elements: CD Elements: 2/3" HD Progressive CCD Picture Elements: Total: 1370 (H) x 744 (V), Effective: 1280 (H) x 720(V) Optical System: F 1.4 prism system Optical Filters: CC: Cross, 3200K, 4300K, 6300K ND: CLEAR, 1/4ND, 1/16ND, 1/64ND Quantization: 14 bits Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/5		· · · · · · · · · · · · · · · · · · ·
Operating Temperature: 32°F to 104°F (0°C to +40°C) Dimensions : 5-1/16" x 10-11/16" x 13" (W x H x D) (129 x 271 x 329 mm) Weight: About 9, 9 bs (4.5 kg) About 16.7 lbs (7.6 kg) in full-operation Continuous Rec Time: About 120 min. with Anton/Bauer Dionic 80 Camera Section CCD Elements: 2/3" HD Progressive CCD Picture Elements: Total: 1370 (H) x 744 (V), Effective: 1280 (H) x 720(V) Optical System: F 1.4 prism system Optical Filters: CC: Cross, 3200K, 4300K, 6300K ND: CLEAR, 1/4ND, 1/16ND, 1/64ND Quantization: 14 bits Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (29.97p) 1/30.2 to 1/249.8 sec. (29.97p) 1/249.8 sec. (29.97p) 1/249.8 sec. (29.97p)<		
Dimensions S-1/16" x 10-11/16" x 13" (W x H x D) (129 x 271 x 329 mm)	1 0 3	
Wx H x D (129 x 271 x 329 mm)		· · · · · · · · · · · · · · · · · · ·
About 16.7 lbs (7.6 kg) in full-operation Camera Section CCD Elements: 2/3" HD Progressive CCD Picture Elements: Total: 1370 (H) x 744 (V), Effective: 1280 (H) x 720(V) Optical System: F 1.4 prism system Optical Filters: C: Cross, 3200K, 4300K, 6300K ND: CLEAR, 1/4ND, 1/16ND, 1/64ND Quantization: 14 bits Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/25.2 to 1/209.5 sec. (50j. 50p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)		(129 x 271 x 329 mm)
Camera Section CCD Elements: 2/3" HD Progressive CCD Picture Elements: Total: 1370 (H) x 744 (V), Effective: 1280 (H) x 720(V) Optical System: F 1.4 prism system Optical Filters: CC: Cross, 3200K, 4300K, 6300K ND: CLEAR, 1/4ND, 1/16ND, 1/64ND Quantization: 14 bits Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -30/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60 (3 to 1/249.8 sec. (29.94), 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03	Weight:	
CCD Elements: 2/3" HD Progressive CCD	Continuous Rec Time:	About 120 min. with Anton/Bauer Dionic 80
Picture Elements: Total: 1370 (H) x 744 (V), Effective: 1280 (H) x 720(V)	Camera Section	
Optical System: F 1.4 prism system Optical Filters: CC: Cross, 3200K, 4300K, 6300K ND: CLEAR, 1/4ND, 1/16ND, 1/64ND Quantization: 14 bits Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60 (30 to 1/249.8 sec. (29.97p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/25.2 to 1/209.5 sec. (60i, 50p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N:	CCD Elements:	2/3" HD Progressive CCD
Optical Filters: CC: Cross, 3200K, 4300K, 6300K ND: CLEAR, 1/4ND, 1/16ND, 1/64ND Quantization: 14 bits Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Picture Elements:	Total: 1370 (H) x 744 (V), Effective: 1280 (H) x 720(V)
ND: CLEAR, 1/4ND, 1/16ND, 1/64ND	Optical System:	F 1.4 prism system
Sampling Frequency: 74.1758MHz (59.94Hz), 74.25MHz (50Hz) Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG)	Optical Filters:	
Programmable Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (23.98p, 23.98pA) 1/50.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (50i) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Quantization:	14 bits
Super Gain: +30/+36 dB Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.5 sec. (60i, 50p) 1/25.2 to 1/209.5 sec. (60i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Sampling Frequency:	74.1758MHz (59.94Hz), 74.25MHz (50Hz)
Digital Super Gain: +6/+10/+12/+15/+20 dB Line Mix Gain: +6 dB (On/Off) Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF Syncro Scan Shutter: 1/60.3 to 1/249.8 sec. (59.94i, 59.94p) 1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (23.98p, 23.98pA) 1/50.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Programmable Gain:	-3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB
Shutter Speed:	Super Gain:	+30/+36 dB
Shutter Speed: 1/60 (50Hz), 1/100 (59.94Hz), 1/120, 1/250, 1/500, 1/1000, 1/2000 sec. and HALF	Digital Super Gain:	+6/+10/+12/+15/+20 dB
1/1000, 1/2000 sec. and HALF	Line Mix Gain:	+6 dB (On/Off)
1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (23.98p, 23.98pA) 1/50.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (50i, 50p) 1/25.2 to 1/209.5 sec. (25p) Sensitivity: F10.0 at 2000 Lux, 89.9% reflect Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Shutter Speed:	
Minimum Illumination: 0.032 Lux at +36 dB +20 dB +6 dB Gain Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Syncro Scan Shutter:	1/30.2 to 1/249.8 sec. (29.97p) 1/24.1 to 1/249.8 sec. (23.98p, 23.98pA) 1/50.2 to 1/209.5 sec. (50i, 50p)
Video S/N: 54 dB (typical) Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Sensitivity:	F10.0 at 2000 Lux, 89.9% reflect
Horizontal Resolution: 700 TV lines at centre Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Minimum Illumination:	0.032 Lux at +36 dB +20 dB +6 dB Gain
Registration Error: Less than 0.03 % (whole zone, without lens distortion) Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Video S/N:	54 dB (typical)
Lens Mount: 2/3" Bayonet type VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Horizontal Resolution:	700 TV lines at centre
VTR Section Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Registration Error:	Less than 0.03 % (whole zone, without lens distortion)
Recording Fromat: DVCPRO HD-LP Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Lens Mount:	2/3" Bayonet type
Tape: 6.35 mm wide metal tape (DVCPRO HD M cassette) Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	VTR Section	
Tape Speed: 67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz) Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Recording Fromat:	DVCPRO HD-LP
Max Rec Time: Approx. 33 min (using AJ-HP33EMG) FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Tape:	6.35 mm wide metal tape (DVCPRO HD M cassette)
FF/REW Time: About 1.5 min. (using AJ-HP33EMG) Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Tape Speed:	67.640 mm/s (59.94Hz), 67.708 mm/s (50Hz)
Video Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Max Rec Time:	Approx. 33 min (using AJ-HP33EMG)
Sampling Frequency: Y: 74.1758 MHz (59.94Hz), 74.25MHz (50Hz) PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	FF/REW Time:	About 1.5 min. (using AJ-HP33EMG)
PB/PR: 37.0879 MHz (59.94Hz), 37.125 MHz (50Hz)	Video	
-	Sampling Frequency:	
	Quantization:	8 bits

Compression Method:	DCT and Variable-length Coding
Compression Ratio:	1/6.3 (1080-50i/1080-25p), 1/6.7 (others)
Error Correction:	Reed Solomon Product Code
Bit Rate:	100 Mbps
Band Width:	Y: 20MHz, PB/PR: 10MHz
Audio	
Sampling Frequency:	48 kHz (sync. with video)
Quantization:	16 bits
Frequency Response:	20 Hz to 20 kHz, ±1.0 dB (reference level)
Dynamic Range:	More than 85 dB (1kHz, AWTD)
Distortion:	Within 0.1% (1 kHz, reference level)
Wow & Flutter:	Below measurable limit
Head Room:	20 dB (AJ-HDX900P), 18 dB (AJ-HDX900E)
Input	
MIC In:	XLR-5pin x 1, Stereo, -40/-50 dBu, Phantom +48 V
Audio In:	XLR-3pin x 2 (CH1/CH2), LINE/MIC/MIC+48 V switchable LINE: -3/0/+4 dBu, MIC: -60/-50 dBu, MIC+48V: -60/-50 dBu,
Wireless In:	25pin D-sub, –40 dBu
Genlock In:	BNC x 1, 1.0 Vp-p, 75Ω
Timecode In:	BNC x 1, 0.5 to 7.0 Vp-p, high impedance
Output	
Video Out:	BNC x 1, HD-SDI/SD-SDI/Compsite switchable HD-SDI/SD-SDI: 0.8 Vp-p, 75Ω Composite: 1.0 Vp-p, 75Ω
Monitor Out:	BNC x 1, HD-SDI/HD-Y switchable HD-SDI: 0.8Vp-p, 75Ω, HD-Y: 1.0Vp-p, 75Ω
Audio Out:	XLR-5pin x 1, CH1/CH2, -3/0/+4 dBu
Timecode Out:	BNC x 1, 2.0 Vp-p, low impedance
Phones:	Stereo mini jack x 2
Others	
Lens:	12-pin x 1
Remote:	10-pin x 1, for AJ-RC10G
DC In:	XLR-4pin, DC11V to 17 V
DC Out:	4-pin x 1, DC11V to 17 V, max. 1.5 A
EVF:	20-pin x 1 (59.94Hz/50Hz switchable)
DVCPRO:	6-pin x 1, IEEE 1394 standard digital Interface
GPS:	6-pin x 1, for AJ-GPS900G
Receiver :	UniSlot® Wireless Receiver

*DVCPRO HD-LP tapes recorded with the AJ-HDX900 cannot be played on a conventional DVCPRO HD VTR (AJ-HD150/AJ-HD130DC).

+965 481 2123

Panasonic

Matsushita Electric Industrial Co., Ltd. Systems Business Group

2-15 Matsuba-cho, Kadoma, Osaka 571-8503

Phone +81 6 6905 4650 Fax +81 6 6908 5969 https://eww.pavc.panasonic.co.jp/pro-av/

[Countries and Regions]

Jordan

Korea

Argentina +54 1 308 1610 Australia Austria +61 2 9887 6222 +43 (0)1 610 80 773 Bahrain +973 252292 +973 252292 +32 (0)2 481 04 57 +359 2 946 0786 +55 11 3889 4035 +1 905 624 5010 Belgium Bulgaria Brazil Canada China +86 10 6515 8828 +852 2313 0888) +420 236 032 552/511 (Hong Kong Czech Republic +45 43 20 08 57 +20 2 3938151 Denmark Egypt +20 2 393013 Finland, Latvia, Lithuania, Estonia +358 (9)521 52 53 +33 (0)1 55 93 66 67 +49 (0)611 235 401 +30 210 96 92 300 Germany Greece +36 (1)382 60 60 +62 21 385 9449 +98 21 2271463 +39 02 67 88 449 Hungary Indonesia Iran Italy

+961 6 586 1914

+7 3272 504 777 +82 2 2106 6641

+961 1 216827 +60 3 5549 5422 (PSE) +60 3 5546 7000 (PM) Malaysia +52 55 5488 1000 Montenegro, Serbia +41 (0)26 466 25 20 +31 73 64 02 577 +64 9 272 0100 +47 67 91 78 00 +92 5370320 21 Netherlands New Zealand Norway Pakistan +507 229 2955 +51 1 614 0000 Panama Peru +63 2 633 6162 +48 (22)338 1100 +351 21 425 77 04 +1 787 750 4300 +40 21 211 4855 Philippines Poland Portugal Puerto Rico Romania +7 095 258 42 06 +966 1 465 0709 Russia & CIS Saudi Arabia Singapore Slovak Republic +65 6270 0110 +421 (0)2 52 92 14 23 Slovenia, Croatia, Bosnia, Macedonia +44 (0)20 76 63 36 57 South Africa +27 11 313 1400

Spain Sweden Switzerland Taiwan Thailand Turkey U.A.E Ukraine

U.K U.S.A. +34 (93) 425 93 00 +46 (8) 680 26 41 +41 (0)41 259 96 32 +886 2 2725 9100 +66 2 731 8888 +90 216 578 3700

+971 4 282201 +380 44 4903437 +380 44 4903438 [ext. 112] +44 (0) 1344 70 69 20

+1 201 348 5300





Factories of Systems Business Group have received ISO14001:2004-the Environmental Management System certification



Kuwait

Lebanon

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