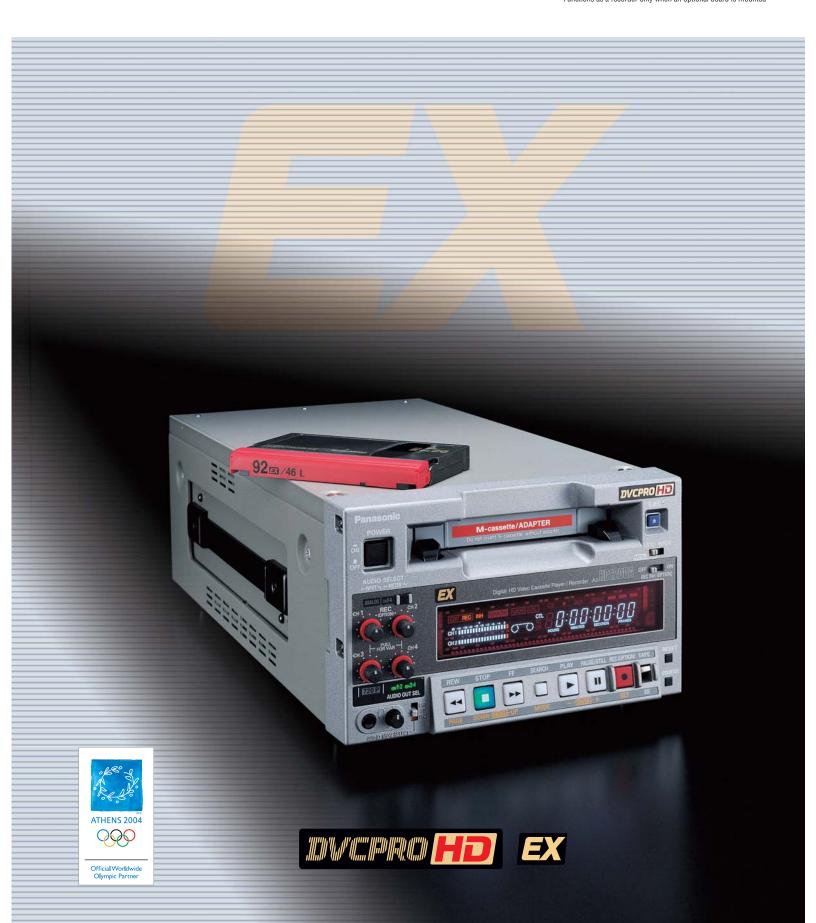
Panasonic ideas for life



*Functions as a recorder only when an optional board is mounted



Compact, Multi-Purpose HD VTR for HD/SD Viewing, Varicam Cinema, HD Production, and HD Nonlinear Editing

Serves as an HD/SD multi-format player

The compact, AC/DC-powered
AJ-HD1200A is ready for a host of active
uses. This versatile HD VTR plays all
DVCPRO formats (both NTSC and PAL),
including DVCPRO HD-LP, and can downconvert HD signals for output as SD
signals, allowing its use as both an HD
and SD viewer. With its 1080/24p (25p)
conversion and output function for
Varicam sources, the AJ-HD1200A also
meets needs in HD cinema production.

Mount an optional board, and the AJ-HD1200A can serve as a recorder in a space-saving, low-cost HD production system. Choose either an SDI type optional board (HD-SDI in/out, SDI out) or an IEEE 1394 type board. With the IEEE 1394 board, the AJ-HD1200A HD becomes the world's first VTR to offer HD input and output via an IEEE 1394 digital interface.

This allows the AJ-HD1200A to connect to next generation NLE (Non-Linear Editing)systems, or IEEE 1394 equipped Video Servers.

All DV Materials

DVCPRO HD

1080i, 720e

DVCPRO50/DVCPRO/DV

480i, 576i

AJ-HD1200A

AJ-HD1200A

DVCPRO HD

1080i, 720e

DVCP

SD Composite

Serves as a versatile HD recorder (optional HD-SDI board required)





	t Signal IEEE 1394)	Recording* Format
	1080/59.94i	1080/59.94i
HD	1080/50i	1080/50i
	720/59.94p	720/59.94p

Playback Tape	Television Format	HD Output (YPbPr/RGB, HD-SDI*)	SD Output (Composite, SDI*)	IEEE 1394 Output ** (DVCPRO HD/DVCPRO 50/DVCPRO/DV switchable)			
				DVCPRO HD	DVCPRO 50	DVCPRO	DV
DVCPRO HD	1080/59.94i	1080/59.94i	480i	1080/59.94i	480i	_	480i
		720/59.94p*	480i	_	_	_	_
	720/59.94p	720/59.94p	480i	720/59.94p	480i	_	480i
		1080/59.94i*	480i	_	_	_	_
	1080/50i	1080/50i	576i	1080/50i	576i	_	576i
	720/24p over 59.94p	1080/24p*	480i	_	_	_	_
	720/25p over 59.94p	1080/25p*	_	_	_	_	_
		_	576i*	_	_	_	_
DVCPRO P	480/59.94p	1080/59.94i or 720/59.94p*	480i	_	_	_	480i
DVCPRO 50	480i	1080/59.94i or 720/59.94p*	480i	_	480i	_	480i
	576i	1080/50i*	576i	_	576i	_	576i
DVCPRO	480i	1080/59.94i or 720/59.94p*	480i	_	_	480i	480i
	576i	1080/50i*	576i	_	_	576i	576i
DV/DVCAM	480i	1080/59.94i or 720/59.94p*	480i	_	_	_	480i
	576i	1080/50i*	576i	_	_	_	576i

Recording* Format
*with an optional board

Playback and Format Conversion
*with an optional AJ-YA120AG board **with an Optional AJ-YAD120AG board

Small, Easy to Carry, AC/DC Operation

Only 8-7/16" wide, the AJ-HD1200A is virtually the same size as a 3U-high waveform monitor. A space-saver in OB vans and other tight places, it is the smallest HD digital VTR for broadcast use. The AJ-HD1200A's light 18.1-pound weight, and convenient handle make it easy to carry. Operating on either AC or DC (12 V), the versatile AJ-HD1200A is a great desktop or rack-mounted VTR that you can also take away for OB van or field use.



DVCPRO HD-LP Format: 92 Minutes of HD Playback and Recording*

The DVCPRO HD-LP format used in the AJ-HD1200A offers extendedtime playback and recording with superb HD quality and resolution. The AJ-HD1200A can play back or record* up to 92 minutes of superiorquality HD footage on a single, compact 1/4" DVCPRO HD L cassette (AJ-HP92ELG).

*The AJ-HD1200A can record only when an optional board is mounted.

1080/24p (25p) Output for Varicam Source Production

In addition to 1800/59.94i and 1080/50i, the AJ-HD1200 supports variable frame rate over 720/59.94p recordings created by Varicam (AJ-HDC27F). It also can play 720/24p over 59.94p sources and convert them for output as 1080/24p, and it can play 720/25p over 59.94p sources and convert them for output as 1080/25p. Used in this way, the AJ-HD1200 provides the Varicam user with an easy integration path to native 1080/24p or 1080/25p based program production.

Universal DVCPRO/DV Playback

The AJ-HD1200A can play back the entire family of DVCPRO tapes – DVCPRO HD and HD-LP, DVCPRO P*¹, DVCPRO50, and standard DVCPRO. It also can play DV and DVCAM*² tapes. Its universal design also allows playback of both NTSC (480i) and PAL (576i) sources. And because the AJ-HD1200A comes equipped with HD component analog and SD composite analog, video outputs, monitoring is simple and inexpensive.

- *1: 480p is down-converted and output as 480i.
- *2: An optional AJ-CS455P Mini-DV Playback Adaptor is required to play Mini-DV and DVCAM S cassettes. DV tapes can be played back in SP mode only.

Built-In HD/SD Down Converter

The AJ-HD1200A lets you down convert video from a pre-recorded HD tape to SD (480i or 576i) the output being available as composite analog video, or SDI with an optional AJ-YA120AG board. This makes it possible to check HD images on an NTSC or PAL monitor. HD and SD signals can also be output for simultaneous transmission of HD and SD. You can even change the aspect ratio, selecting from widescreen, squeeze and side cut conversion modes.

World's First HD-Compatible IEEE 1394 Interface (optional)

Mount the optional AJ-YAD120AG digital video in/out board, and the AJ-HD1200A becomes the world's first VTR to provide HD input and output via an IEEE 1394* digital interface. This unique capability lets you perform nonlinear editing or transfer compressed data streams to a server with no degradation. SD output is also possible. These features make the AJ-HD1200A ideal for SD source playback and for down-converting HD sources to DVCPRO50 or DV for off-line editing or distribution copy applications.

*DVCPRO HD Non-linear editing to be supported by Apple Final Cut Pro. For more information, please go to www.apple.com/finalcutpro/

Recording via HD-SDI (optional)

Add the optional AJ-YA120AG HD-SDI in/out and SD-SDI out board, and the AJ-HD1200A can provide HD recording (1080/59.94i, 1080/50i, or 720/59.94p) from HD-SDI input. It also can provide HD-SDI output and SD-SDI output (down-converted or SD playback). This board also incorporates an HD format converter that allows conversion between 1080i and 720p output in either direction.

Versatile Interfaces and Easy-to-Use Functions

- Eight channels of 16-bit/48-kHz digital audio allow multilingual, or stereo plus discreet 5.1 channel surround sound recordings.
- 4-channel analog audio in/out (channels 3 and 4 can be switched for L/R monitor output use).
- Built-in SMPTE time code generator/reader and time code in/out.
- Auto rewind, auto repeat and memory stop functions.
- Optional AJ-A95 remote controller available, with up to 50x shuttle search.
- · Auto back function for seamless recording.
- · Rec inhibit switch.
- TAPE/EE output selector.
- Headphone output with volume control.



Rear Panel with AJ-YA120AG & AJ-YAD120AG



AJ-YA120AG HD-SDI Input/Output and SD-SDI Output Board



AJ-YAD120AG Digital Video In/Out Board (IEEE 1394 Interface Board)



AJ-A95 9-pin remote controller

AJ-CS455P Cassette Adapter

AJ-HP92ELG (92 minutes) AJ-HP64ELG (64 minutes) AJ-HP33EMG (33 minutes) **DVCPRO HD-EX Cassette Tape**

BT-LH900P (8.4") BT-LH1500 (15") BT-LH1800 (18") LCD HD/SD Video Monitor

A J - H D 1 2 0 0 A S P E C I F I C A T I O N S

General		Video Input			
Power Supply:	AC (100-240) V ±10%, 50 to 60 Hz	HD SDI (option*1):	BNC x 1, SMPTE 292M/296M		
Power Consumption:	Consumption: 97W		BNC x 2 (loop-through), 75Ω On/Off		
Operating Temperature	: 41 °F to 104 °F (5°C to 40°C)		SD (analog composite) /HD (tri level sync) Auto switching		
Operating Humidity:	10% to 85% (non dew)				
Weight:	18.1 lbs (8.2 kg)	Video Output			
Dimensions (WxHxD):	8-1/2" x 5-3/16" x 16-15/16"	HD SDI (option*1):	BNC x 2, SMPTE 292M/296M		
	(214 x 132 x 430 mm)	SD SDI (option*1):	BNC x 1, SMPTE 259M-C		
Recording Format:	DVCPRO HD-LP	HD Component:	BNC x 3, Y/Pb/Pr, R/G/B switchable		
Recording Track:	Digital Video: 1080i/720p	SD Composite:	BNC x 2, Video1, Video2 (superimpose on/off)		
	Digital Audio: 8 channels TC: Subcode area	Video Output Adj	Video Output Adjustment Range		
	Cue: 1 longitudinal track	HD SDI:	(option*1) ±0.5H (±1100 Sample, 13.5ns step)		
	CTL: 1 longitudinal track	SD SDI Composite:	(option*1) ±0.5H (±858 Sample, 37ns step)		
Tape Speed:	67.64mm/s	Compsite SC:	±180°		
Rec/Play Time:	Max. 92 minutes with AJ-HP92ELG				
Tape:	1/4" metal particle	Audio Input			
FF/REW Time:	Approximately 2 minutes with AJ-HP92ELG	Analog (option*1):	XLR x 4 (CH1/2/3/4), +4/0/ -20 / -60 dBu (3k Ω) switchable, 600Ω /high-impedance switchable		
Video		HD SDI (option*1):	SMPTE 299M embedded audio (BNC x 1, 75Ω)		
Sampling Frequency:	Y: 74.25/1.001 MHz, Pb/Pr: 37.125/1.001 MHz				
Quantization:	8 bits	Audio Output			
Compression Method:	DCT + Adaptive quantization	Analog:	XLR x 4 (CH1/2/3/4), CH3/4 switchable for Monitor Out (L/R)		
Compression Ratio:	1/6.7		+4/0/–20 dBu switchable, 600Ω/high-impedance switchable		
Error Correction:	Reed Solomonn Product Code	HD SDI (option*1):	SMPTE 299M embedded audio (BNC x 2, 75Ω)		
Bit Rate:	100 Mbps	SD SDI (option*1):	SMPTE 275M-A embedded audio (BNC x 1, 75Ω)		
		Phones:	M6, variable level control, 8Ω		
Audio					
Channel:	8 channels	Others			
Sampling Frequency:	48kHz	DIGITAL (option*2):	6 pin x 1, IEEE 1394, DVCPROHD, DVCPRO50/DVCPRO/DV		
Quantization:	16 bits	TC IN:	BNC x 1, 0.5 to 8.0 Vp-p, 10kΩ (option)		
Frequency Response:	20Hz to 20kHz, ±1.0dB (reference level)	TC OUT:	BNC x 1, low-impedance, 2.0 ±0.5 Vp-p		
Dynamic Range:	More than 85dB (1kHz, emphassis off, "A" weighted)	Remoto Control:	D-sub 9 pin, for AJ-A95, RS-422A Interface		
Distortion:	within 0.1% (1kHz, emphassis off, reference level)	DC IN:	4 pin x 1, DC12V		
Cross Talk:	Less than -80dB (1kHz, between any 2ch)	DC OUT:	DC12V, 250mA, for AJ-A95		
Wow & Flutter:	Below measurable limit		Option*1: AJ-YA120AG HD-SDI Input/Output and SD-SDI Output Board		
Headroom:	20dB (AJ-HD1200AP) / 18dB (AJ-HD1200AE) Option*2: AJ-YAD120AG IEEE 1394 Interface Board				

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

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