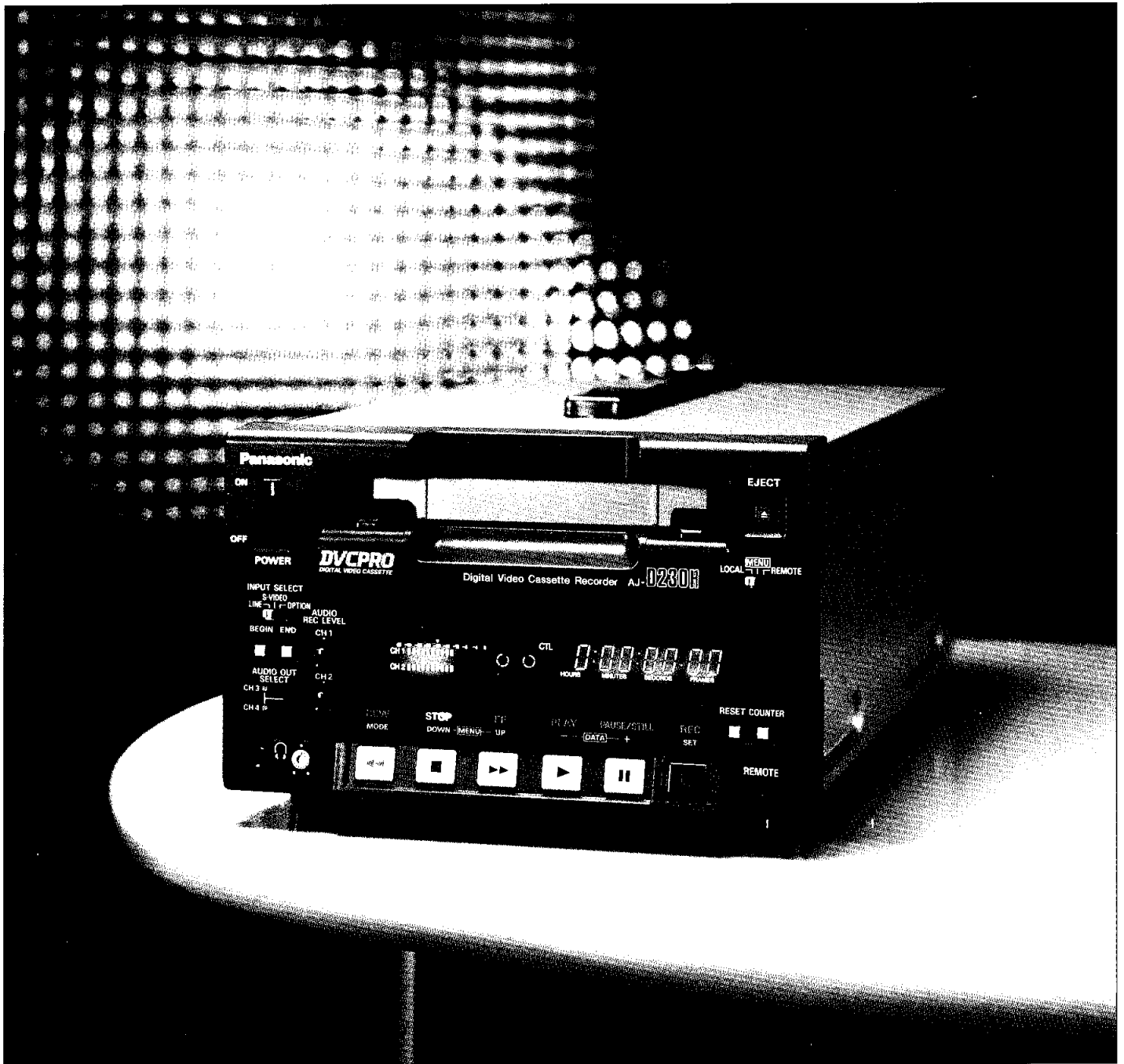


Panasonic

AJ-D230H

DVCPRO Desktop VCR
(NTSC:525)

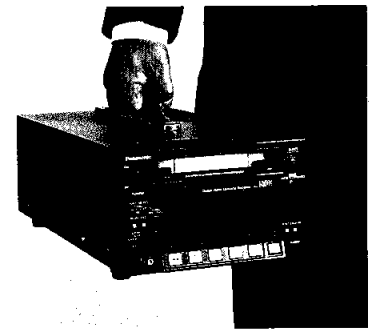


Compact Digital VCR with PC Interface

Panasonic's new desktop recorder is an affordably priced DVCPRO VCR with compact dimensions — 8-7/16" x 5-1/4" x 15-3/8" — that allow convenient desktop use.

A built-in RS-232C interface, which comes as standard equipment, allows remote control from a PC for non-linear editing or multimedia production.

Weighing only 15.4 lbs. (7 kg) and equipped with a carrying handle, this versatile digital VCR is ideal as backup equipment when shooting with a camera or for dubbing or viewing.

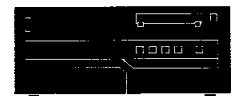


Compact, Carryable and Low Power Consumption

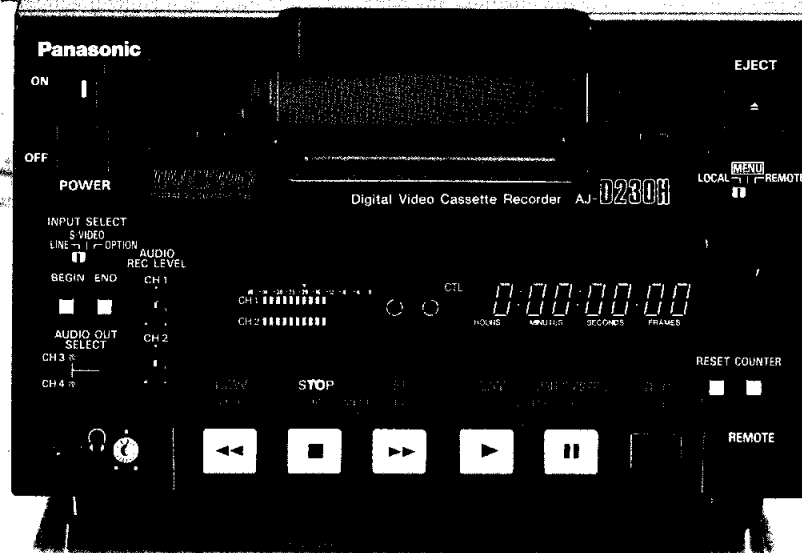
Only 8-7/16" (W) x 5-1/4" (H) x 15-3/8"(D), its compact size takes up little space and fits easily on a desktop. Two of these compact units can be placed side by side in a standard 19" rack. The AJ-D230H is equipped with a handle that makes this lightweight unit easy to carry with one hand. This and its low power consumption (45 W) make the AJ-D230H ideal for use as a backup recorder.



AJ-D230H



Conventional VCR (AJ-D650)



123-Minute Recording Capacity

The AJ-D230H accommodates both program production and broadcasting needs. Use of a DVCPRO large cassette (AJ-P123L) provides a maximum recording time of 123 minutes, while medium DVCPRO cassettes provide up to 63 minutes.

Playback of DV Format Recordings

While DVCPRO recordings are made on rugged metal particle tape, by using the optional AJ-CS750 cassette adaptor*, the AJ-D230H can play back metal evaporated tapes recorded in DV.

The AJ-D230H can be used with the AG-EZ1U AG-EZ30U or AG-EZ20U DV Camera/Recorder to form an easy-to-use system at a considerable savings in costs.

*The AJ-D230H cannot record on Mini-DV cassettes, even with the AJ-CS750 optional cassette adaptor.

*Mini-DV cassettes recorded in LP mode cannot be played back.

Outstanding Picture and Sound Quality

The AJ-D230H's digital component recording assures superb pictures. For sound that surpasses CDs in quality, these units feature two 16-bit digital audio channels with 48-kHz sampling. There's also one analog cue track. Using the optional digital interface, both picture and sound quality remain high even after editing and repeated dubbing.

Reliable Mechanism

The unit is exceptionally well-priced and compact, yet it features the same advanced mechanism found in DVCPRO broadcast VCRs. Tough enough to stand up to rigorous studio use, this technology gives this recorder levels of reliability and durability that set it apart from consumer VCRs.

Time Code Recording/Playback

The AJ-D230H has a built-in SMPTE time code generator and reader. The time code recorded onto the sub-code area of each track enables to-the-frame precision and time code detection during searches. Precise indexing control is possible using a PC.

RS-232C Interface*

The 25-pin RS-232C interface board, which comes as standard equipment, allows remote control from a PC.

DVCPRO Interface (option)**

The optional AJ-YAD230P board provides a DVCPRO interface for the AJ-D230H, letting you digitally transfer video and audio signals that conform to IEEE1394 while maintaining the high precision and reliability needed in professional applications. For example, use the board to digitally dub between two AJ-D230H units or back-up between the AJ-D230H and an AJ-D210.

The AJ-YAD230P is also equipped with a 9-pin RS-232C interface terminal.

Optional Interface Boards**

A 9-pin remote board (AJ-YA230) can be installed for remote control of basic operations using a controller, such as the AG-A850.

** The AJ-YAD230P DVCPRO interface board or AJ-YA230 9-pin remote interface board replace the standardly installed RS-232C (25-pin) board. Two or more boards cannot be used.

Analog Interface

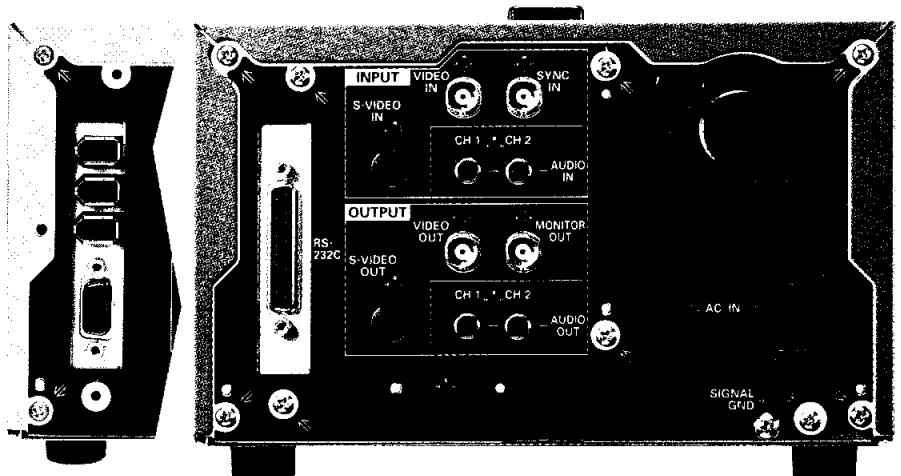
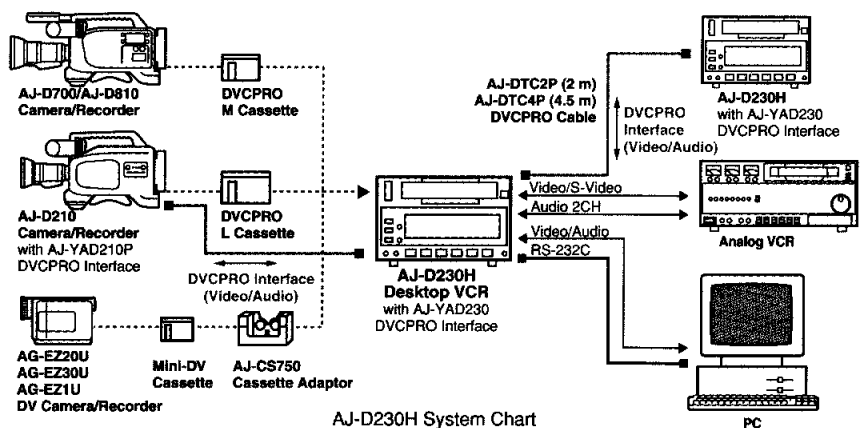
The analog interface comes equipped with composite video input/output and 2-channel audio input/output, for easy connection with existing analog AV equipment. Also equipped with S-VIDEO input/output, the desktop recorder provides superior dubbing quality with S-VHS or MII VCRs.

On-Screen Set-Up Display

A number of initial settings are easily changed, with on-screen convenience. The display, which is easy to read thanks to a simple, straight-forward layout, indicates a host of functions.

Additional Features

- Forward/Reverse Search at about 10x normal speed
- Video input signal stabilizer
- Independent adjustment of audio input levels (CH1/CH2)
- 4-position audio output selector: CH1/CH2/CH3-4 (for DV cassette playback)
- Wired remote control (optional; AG-A11)



AJ-YAD230P
DVCPRO Interface Board

AJ-D230H Rear Panel

DVCPRO: The Total Digital Solution

DVCPRO points the way to a new digital era in broadcasting and professional video. Offering superior basic performance, high reliability and a wide product range, this format interfaces with analog systems today and can respond to the non-linear systems of tomorrow.



OPTIONAL ACCESSORIES

AJ-YAD230P

DVCPRO Interface Board

AJ-DTC2P/AJ-DTC4P

DVCPRO Terminal Cable

AJ-YA230P

9P Remote Control Interface Board

AG-A11

Wired Remote Control Unit

AJ-CS750

Mini-DV Cassette Adaptor

DVCPRO Cassette Tape

1/4" Metal Particle Tape Cassette for Digital Recording

AJ-CL12L/CL12M

Cleaning Tape

Cassette Line-Up

Model No.	Time	Length
AJ-P123L	123 min.	254 m
AJ-P94L	94 min.	194 m
AJ-P64L	64 min.	133 m
AJ-P63M	63 min.	131 m
AJ-P33M	33 min.	76 m
AJ-P23M	23 min.	49 m
AJ-P12M	12 min.	27 m

SPECIFICATIONS

General

Power Requirement:	AC120V±10% 50 to 60 Hz
Power Consumption:	45W
Format:	DVCPRO 1/4" Digital compressed recording
Recording Track:	Digital Video Digital Audio: 2CH TC: REC in Sub-Code area Cue: 1 Track CTL: 1 Track
Tape Speed:	33,820 mm/s
Tape:	1/4-inch Metal Particle Tape
Cassette Size:	AJ-P123L: 125 x 78 x 14.6 mm AJ-P63M: 97.5 x 64.5 x 14.6 mm
Recording Time:	Max 123 min. with AJ-P123L Max 63 min. with AJ-P63M
FF/REW Time:	Within 3 min. using AJ-P123L
Operating Temperature:	5 °C to 40 °C (41 °F to 104 °F)
Weight:	15.4 lbs. (7.0 kg)
Dimensions (W x H x D):	8-7/16" x 5-1/4" x 15-3/8" (214 x 132 x 391 mm)

Video

Sampling Frequency:	Y: 13.5 MHz C (PB/PR): 3.375 MHz
Quantization:	8 bits/sample
Error Correction:	Reed-Solomon Product Code
Bandwidth:	30 Hz to 4.5 MHz (-1 ±1 dB)
Y/C Delay:	Less than 20 nsec
K Factor:	Less than 3%
Audio	
Sampling Frequency:	48 kHz
Quantization:	16 bits/sample
(Digital Audio)	
Frequency Response:	20Hz to 20kHz (-1+1.0, -2.0 dB)
Crosstalk:	Less than -80 dB (at 1 kHz, between 2 channels)
Dynamic Range:	more than 85 dB (at 1 kHz, "A" WTD)
Wow & Flutter:	Below measurable limit

Video Input/Output Signal

Video In:	BNC x 1, 1.0 Vp-p, 75Ω
S-VIDEO In:	4P x 1 Y: 1.0Vp-p, C: 0.286Vp-p (Burst)
Sync In:	BNC x 1, 0.286 Vp-p, 75Ω
Video Out (Composite):	BNC x 1, 1.0 Vp-p, 75Ω
S-VIDEO Out:	4P x 1 Y: 1.0Vp-p, 75Ω C: 0.286Vp-p, (Burst)
Monitor Out:	BNC x 1, 1.0 Vp-p, 75Ω
Audio Input/Output	
Audio In:	RCA x 2 (CH1/CH2), -8 dBV, 47 kΩ
Audio Out:	RCA x 2 (CH1/CH2), -8 dBV, 1 kΩ (Switchable to CH3, CH4 output, with DV tape playback)
Headphone:	M3 stereo, variable level (MAX. more than -32 dBV, 8Ω)
Others	
RS-232C:	RS-232C interface (25P)
Wired Remote:	for AG-A11 optional wired remote controller
9P Remote:	I/F Board (option)
Standard Accessory:	AC power code x 1

Weight and dimensions shown are approximate. Specifications are subject to change without notice. These products may be subject to export regulations.

Panasonic

Broadcast & Television Systems Company
Division of Matsushita Electric Corporation of America

Executive Office: One Panasonic Way (3F-5), Secaucus, NJ 07094
EASTERN ZONE: One Panasonic Way, Secaucus, NJ 07094 (201) 348-7410
SOUTHERN ZONE: 1275 Northbrook Parkway, Suite 1-160, Suwanee, GA 30024 (770) 338-6835
WESTERN ZONE: 4001 W Alameda Ave., Suite 100, Burbank CA 91505 (818) 562-1501

Matsushita Electric Corporation of America
Corporate Sales Group, Hawaii Region
99-859 Iwaiwa St., Aiea, HI 96701-3267
(808)488-7779

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3
(905)238-2115

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



Certificate No. EC95J1010



ISO9001 / BS5750 : PART 1
FM No. 28369

Matsushita Electric Industrial Co., Ltd.
Video Systems Division
2-15 Matsuba-cho, Kadoma, Osaka, 571 Japan
Tel. 81-6-901-1161 Fax. 81-6-908-5969