# **Panasonic**





## 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 214 (W)  $\times$  132 (H)  $\times$  391 (D) mm, 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-D230 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-D230 ideal for use as a backup recorder.



AJ-D230



Conventional VTR (AJ-D650)







#### 123-Minute Recording Capacity

The AJ-D230 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-D230 can play back metal evaporated tapes recorded in Mini-DV.

The AJ-D230 can be used with the AG-EZ1 Mini-DV Camera/Recorder to form an easy-to-use system at a considerable savings in costs.

\*The AJ-D230 cannot record on Mini-DV cassettes, even with the AJ-CS750 optional cassette adaptor.

### Outstanding Picture and Sound Quality

The AJ-D230'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-D230 has a built-in SMPTE/EBU 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 RS-232C interface board, which comes as standard equipment, allows remote control from a PC.

#### **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**

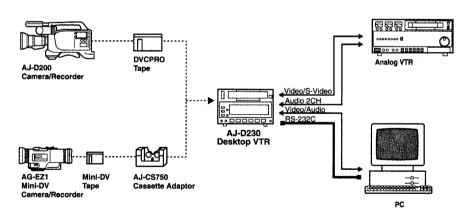
A number of initial settings are easily changed, with on-screen convenience. The display, which is easy to read thanks to a simple, straight-forward layout, indicates a host of functions.

#### **Optional Interface Boards**

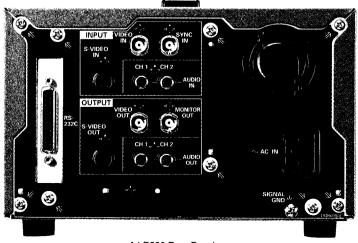
A 9-pin remote board can be installed for remote control.

#### **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-D230 System Chart







#### OPTIONAL ACCESSORIES

AJ-CS750

Mini-DV Cassette Adaptor

Wired Remote Control Unit

**DVCPRO Cassette Tape** 

1/4" Metal Particle Tape Cassette for Digital Recording

AJ-CL12L/CL12M

SPECIFICATIONS

Cleaning Tape

Cassette Line-up	
Model No.	
A L D100L	

Video

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

Time

Lenath

AC120V±10% 50 to 60 Hz	
45W	
DVCPRO	
1/4" Digital	compressed recording
Digital Video	
Digital Audi	io: 2CH
TC:	REC in Sub-Code area
Cue:	1 Track
CTL:	1 Track
33.820 mm	/s
1/4-inch Me	etal Particle Tape
AJ-P123L:	125 x 78 x 14.6 mm
AJ-P63M: 9	97.5 x 64.5 x 14.6 mm
Max 123 m	in. with AJ-P123L
Max 63 mir	n. with AJ-P63M
Within 3 min. using AJ-P123L	
±1 frame (c	continuous use)
5 °C to 40 °	°C (41 °F to 104 °F)
15.4 lbs. (7	.0 kg)
8-7/16" x 5-	-1/4" x 15-3/8"
(214 x 132	x 391 mm)
	45W DVCPRO 1/4" Digital Vide Digital Vide Digital Vide CUe: CTL: 33.820 mm 1/4-inch Me AJ-P123L: AJ-P63M: S Max 123 m Max 63 mir Within 3 mi ±1 frame (c 5 °C to 40 ° 15.4 lbs. (7 8-7/16" x 5

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 5.0 MHz (+1/-3 dB)	
Y/C Delay:	Less than 20 nsec	
Audio		
Sampling Frequency:	48 kHz	
Quantization:	16 bits/sample	
(Digital Audio)		
Frequency Response:	20Hz to 20kHz (+1/-2 dB)	
Crosstalk:	Less than -80 dB	
	(at 1 kHz,between 2 channels)	
Dynamic Range:	more than 80 dB	
. •	(at 1 kHz, "A" WTD)	
Wow & Flutter:	Below measurable limit	
Headroom:	20 dB	
Emphasis:	T1=50 µsec/T2=15 µsec	
	(On/Off selectable)	

Video Input/Output Sig	BNC x 1, 1.0 Vp-p, 75Ω, unbalanced
S-VIDEO In:	4P x 1
0 1.020	Y: 1.0Vp-p, 75Ω, unbalanced
	C: 0.286Vp-p, 75Ω, unbalanced (Burst)
Sync In:	BNC x 1, 0.286 Vp-p, 75Ω, (Negative)
Video Out (Composite):	BNC x 1, 1.0 Vp-p, 75Ω, unbalanced
S-VIDEO Out:	4P x 1
	Y: 1.0Vp-p, 75Ω, unbalanced
	C: 0.286Vp-p, 75Ω, unbalanced (Burst)
Monitor Out:	BNC x 1 (Superimpose On/Off)
Audio Input/Output	
Audio In:	RCA x 2 (CH1/CH2), -8 dBv, 47 kΩ
Audio Out:	RCA x 2 (CH1/CH2), -8 dBv
	(Switchable to CH3,CH4 output,
	with DV tape playback)
Others	
RS-232C:	RS-232C interface (25P)
Wired Remote:	for AG-A11 wired remote controller (option)
9P Remote:	I/F Board (option)
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Weight and dimensions shown are approximate. Specifications are subject to change without notice. These products may be subject to export regulations.

**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 30174

(770) 338-6835 WESTÉRN 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, Missisauga, 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





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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