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## Compact, Lightweight Digital Camera/ Recorder for High-Quality 50Mbps 4:2:2: Recording

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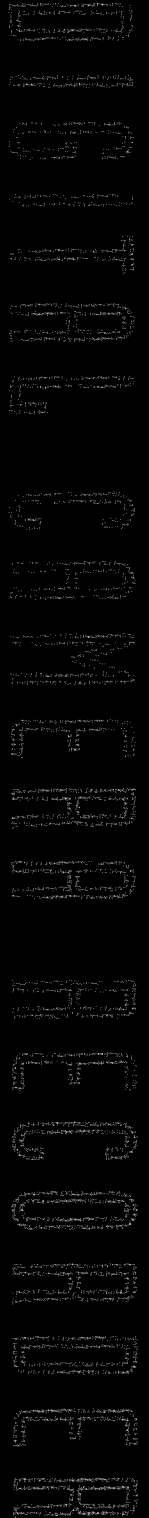
The high-performance AJ-D900W digital camera/recorder features a built-in DVCPRO50-format VTR .

DVCPRO50 offers the superior picture and quality needed in high-end production. The 50 Mbps recording rate allows recording of 4:2:2: digital component video signals at a low 3.3:1 compression ratio.

The AJ-D900W's camera section

features three 600,000(625)/520,000 (525)-pixel M-FIT 2/3- inch CCDs to match the VTR section's high picture Quality. The aspect ratio is switchable between 16:9 and 4:3 to accommodate next-generation TVs.

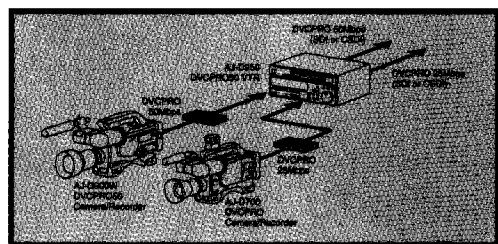
With all these high-performance features in a compact unit that weighs only about 14 lb.s. in operating condition, the AJ-D900W brings great mobility to EFP.



## DVCPRO50 VTRs: Exceptional Picture Quality

4:2:2, 50Mbps DVCPRO VTRs are designed for multilayer productions that incorporate complex chromakey and computer graphics- for example certain commercials or title animations. Their low 3.3:1 compression ratio assures outstanding picture quality, while the intra-frame compression method allows frame-by-frame editing. The four PCM audio channels meet high end applications.

DVCPRO50 equipment inherits the digital technology that has proven itself in 25-Mbps DVCPRO equipment, resulting in design simplicity, lower costs, and higher reliability.



## AJ-D900W Features

- The AJ-D900W weighs only about 8.5 lbs., including the viewfinder. In operating condition - lens, battery and cassette tape - it's small in size and still only weighs about 14 lbs.
- Records for up to 31 minutes in high-quality DVCPRO50
- Features three 2/3" 600,000 (PAL)/520,000(NTSC)-pixel wide-type multiple-FIT CCD image sensors.
- Switchable 16:9/4:3 aspect ratio for both camera and viewfinder (the two are linked).
- High resolution of more than 700 TV lines at 16:9; high 2,000-lux sensitivity at F9.0
- Digital set-up lets the user adjust parameter settings numerically
- Four PCM audio channels and 1 analog cue channel
- Parameter settings can be stored on a set-up card
- Operates on Anton/Bauer and other batteries
- Full-color playback
- Internal color bar generator
- External remote control box (option)

## Specifications

### General

Power Supply: DC12V(11V to 17V)  
 Power Consumption: Less than 25W (target)  
 Operating Temperature: 0 to 40 C  
 Operating Humidity: Less than 85%  
 Storage Temperature: -20 to 60 C  
 Weight: About 8.5 lbs. including VF(target)  
 About 14lbs. in full operation (target)  
 Dimensions: 128.6(W) x 204(H) x 333(D)mm

### Camera Part

CCD Elements: 2/3" M-FIT CCD  
 Effective Elements: 525/16:9 948(H) x 485(V),  
 525/4:3 711(H) x 485 (V),  
 625/16:9 936(H) x 575(V),  
 625/4:3 702(H) x 575(V)  
 Optical System: F 1.4 Prism system  
 Optical Filter: A;Cross, B;3200K, C;4300K,  
 D;6300K 1;CLEAR, 2;1/4ND,  
 3;1/16ND, 4;1/64ND  
 Quantization: 10 bit  
 Sampling Frequency: 36MHz  
 Processing: 36MHz, 16bit  
 Programmable gain: Among -3/0/+3/+6/+9/+12/+15/  
 +18/+21/+24/+36db to L/M/H  
 position  
 Bayonet type  
 Less Mount:  
 Sensitivity: 2000 Lux (F9,89.9% reflection)  
 Minimum Luminance: 0.8 Lux(F1.14, +36dB)  
 Video S/N: 525: 63dB(typical),  
 625: 61dB(typical)  
 Horizontal resolution: More than 700 TV Lines

Registration error: Less than 0.05%  
 Smear level: -130dB (typical)  
**VTR Part**  
 Tape: 1/4" DVCPRO50 cassette tape  
 Tape Speed: 525: 67.640mm/s  
 625: 67.708 mm/s  
 31 min.  
 Max Rec Time: About 3 min.  
 FF/REW Time: About 90 Min with Anton/Bauer  
 Trimpack 14 battery  
 Continuous Rec Time:

### Video

525 Band Width: Y:30Hz to 5.75 MHz, +1.0/-3dB  
 Pb/Pr; 30Hz to 2.75MHz +1.0/-3dB  
 625 Band Width: Y:25Hz to 5.75MHz, +1.0/3dB  
 Pb/Pr; 25Hz to 2.75MHz +1.0/-3dB  
 S/N Ratio: More than 55dB  
 K Factor(2T): Within 2%  
 Y/C delay: Within 20 ns  
**Audio**  
 Sampling Frequency: 48kHz  
 Quantization: 16 bit  
 Frequency response: 20Hz to 20kHz, +-1.0dB  
 Dynamic range: more than 85 dB (1kHz,AWTD)  
 Distortion: Within 1% (1kHz, reference level)  
 Wow & Flutter: Below measurable limit  
 Head Room: 525: 20dB 625: 18dB  
 Emphasis: T1=50us, T2=15us(ON/OFF)

### Input

Audio IN: XLR x 2(CH1/CH3,CH2/CH4)  
 balanced MIC; -60/50/-40dBu

LINE: -6/0/+4dBu  
 MIC IN: XLR x 1 balanced-60/50/-40dBu  
 selectable Phantom +48V  
 Genlock IN: BNC x1 1.0Vp-p75Ω  
 TC IN: BNC x 1 0.5V to 18V

### Output

Camera OUT: BNC x1, 1.0Vp-p75Ω  
 Video OUT: BNC x 1, 1.0Vp-p75Ω  
 Audio OUT: XLR x 1, +4dBu(525)/0dBu(625)  
 low impedance CH1(CH3)/CH2  
 (CH4)(3 position)MIX selectable  
 BNC x 1, 2.0Vp-p 75Ω  
 TC OUT:  
 Phones: Mini Jack x 2

### Others

DC IN: XLR 4 x 1 DC 11V to 17V  
 DC OUT: 4P x 1, DC 11V to 17V  
 Lens: 12p x 1  
 ECU: 6P x 1  
 EVF: 20P x 1  
 VTR: 26P x 1(option)  
 Audio OUT: 12P x 1(option),CH1/CH2  
 separate, unbalanced, 20dBu  
 low impedance

The specifications given above were measured by playing back tapes recorded by this unit on standard DVCPRO VTRs Weight and dimensions shown are approximate. Specifications are subject to change without notice. These products may be subject to export regulations.

**Panasonic**  
 Broadcast & Digital Systems Company

**ADTV**  
 ADVANCED DIGITAL TELEVISION & VIDEO

REGIONAL OFFICES:  
 EASTERN: One Panasonic Way, Secaucus, NJ 07094 (201)348-7410  
 SOUTHERN: 1225 Northbrook Parkway, 1-160, Suwanee, GA 30024 (770)338-6835  
 WESTERN: 4001 W. Alameda Ave., Suite 100, Burbank, CA 91505 (818)562-1501  
 Government Marketing Department: 52 West Gude Drive, Rockville, MD 20850  
 (301)738-3840