

AJ-D800 2/3" IT-3CCD DVCPRO Camera/Recorder



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General Features:

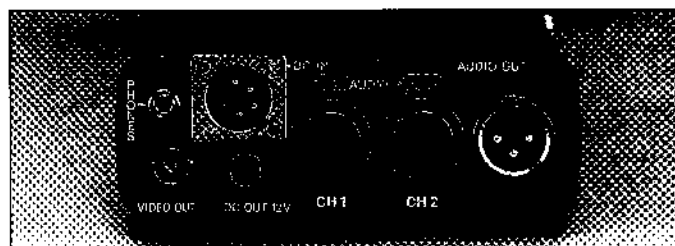
- Integrated digital camera and DVCPRO 1/4" digital VTR permits one-person operation
- Light weight: 5.85 kg in full operating condition
- Records a full 63 minutes on one compact 1/4" cassette (AJ-P63M)
- Low power consumption (24 W or less when recording)

Camera Features:

- High-density 2/3" IT-3CCD lens delivers resolution equivalent to a CCD having 480,000 pixels
- Industry-standard bayonet mount accepts conventional 2/3" lenses
- Large light-collecting area provides a high video S/N ratio of 55 dB
- 10-bit A/D, 16-bit digital signal processing optimizes picture quality
- Electronic shutter (1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec), synchro scan shutter (1/50.5 ~ 1/252-sec.)
- Minimum illumination 2 lux (f1.4, +30 dB)
- Gain: -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+30 dB
- Scene file & optional IC card (PCMCIA SRAM card)
- High-resolution 1.5" EVF
- 26-pin backup VTR connector (with optional AJ-YA700)

VTR Features:

- Outstanding picture quality across a 5.75-MHz (Y) video bandwidth with 55 dB S/N
- 48-kHz sampling, 16-bit audio recording
- Two PCM audio channels and 1 analogue cue channel (CH1/CH2/MIX selectable)
- Built-in EBU time code generator/reader
- Colour bar and 1-kHz audio reference signal output
- Phantom power supply (48-VDC phantom mic)
- Built-in monitor speaker



Rear Connector Panel



Rearside Connector

Optional Accessories for AJ-D800

AJ-VF53 5" Viewfinder	SHL-QVF5D700 5" EVF Adaptor	AJ-MC700 Microphone Kit	AJ-MH700 Microphone Folder	SHL-064HSRVS PCMCIA SRAM Card
AJ-YA700 26-pin VTR Connector	AJ-YA710 Return Video, TC In/Out Connector	SHAN-C12TCA TC/Audio Cable	SHAN-TM700 Tripod Adaptor	SHAN-B700 Hard Carrying Case
AJ-SC700 Soft Carrying Case	AJ-B75 AC Adaptor	AJ-EC2 Extension Control Unit	AU-M402H Battery Holder for AJ-BP402	SHAN-B220 Battery Holder for AU-BP220 & NP1
AU-BP402 Battery Pack	A-BP220 Battery Pack	AG-B425 Battery Charger for AJ-BP402/AJ-BP220	ABDT14/ABT14/ABDP14/ABH50 Anton/Bauer Battery Pack	ABC800H Anton/Bauer Battery Charger

AJ-D800

General

Power Requirement:	DC 11V ~ 17V
Power Consumption:	24W
Operating Temperature:	0°C ~ 40°C
Operating Humidity:	Less than 85%
Weight:	5.85 kg (includes lens, EVF, tape and battery pack)

Camera Section

Pick-up Device:	Interline Transfer 2/3" CCD Image sensor (x3)
Picture Element:	Total: 480,000-pixel
Digital Quantization:	10-bit A/D
Digital Signal Processing:	14.5/29MHz
Horizontal Resolution:	750 TV lines (at centre)
Vertical Resolution:	450 TV lines (500 TV lines in Super V)
Sensitivity (89.9% reflection):	2,000 lux at F8.0
Minimum Illumination:	2 lux (at F1.4, +30dB gain)
Shutter Speed:	1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec.
Synchro Scan:	1/50.5 to 1/252 sec.
Optical Filter:	3200K, 5600K+1/4ND, 5600K, 5800K+1/16ND
Signal-to-Noise Ratio:	60dB (typical)
Registration:	Less than 0.03% (all zones, without lens)
Gain:	-3/0/+3/+6/+9/+12/+15/+18/+21/+24/+30dB
Setup Card:	PCMCIA SRAM Card (Option)
Lens Mount:	2/3" bayonet mount

EVF Section

CRT:	1.5" monochrome
Horizontal Resolution:	600 TV-line
External Adjust:	VR; Bright, Contrast, Peaking SW; Tally, Zebra

VTR Section

Format:	DVCPRO
Recording/Playback Time:	63 min. with AJ-P63M cassette
FF/REW Time:	Approx. 3 min. using AJ-P63M

Video Performance (Analogue Component Out)

Bandwidth:	Y: 25Hz ~ 5.75MHz, +1.0/-3dB
Signal-to-Noise Ratio:	55dB or more
K Factor (2T):	Within 2%
Y/C Delay:	Within 20ns

Audio Performance (Digital Audio)

Frequency Response:	20Hz ~ 20kHz +1.0/-1.0dB
Distortion:	Less than 0.1% (1kHz, reference level)
Wow & Flutter:	Below measurable limit
Headroom:	18dB
Emphasis:	T1=50µs T2=15µs (ON/OFF Selectable)

Input/Output Signal

Return Video Input:	BNC x 1, 1.0Vp-p, 75Ω
Genlock Input:	BNC x 1, 1.0Vp-p, 75Ω
Mic In:	XLR 3-pin (-60/-50/-40dBu selectable, balanced, 3kΩ)
Audio Input:	XLR (CH1/CH2) balanced, more than 10kΩ, MIC/LINE switchable MIC: -60/-50/-40dBu selectable LINE: +4/0/-6dBu selectable
Camera Out:	BNC x 1, 1.0Vp-p, 75Ω
Video Out:	BNC x 1, 1.0Vp-p, 75Ω
Audio Output:	XLR x 1 (CH1/CH2/MIX selectable) (0dBu balanced, low impedance)
Earphone Output:	Stereo mini-jack x 1

Others

Time Code In/Out:	12-pin multi-connector (In: 0.5 to 18Vp-p, Out: 1.0Vp-p, 75Ω)
Audio Out (CH1/CH2):	12-pin multi-connector, -20dBu, unbalanced, low impedance
VTR Connector (option):	26-pin component video, 75Ω
DC In:	XLR 4-pin male, DC 11V ~ 17V
DC Out:	4-pin (DC 12V, 100mA)
Lens:	12-pin