

AJ-D900W 2/3" M-FTT-3CCD DVCPRO50 Camera/Recorder

DVCPRO 50

Downloaded from: www.broadcast-trader.com.au



General Features:

- Integrated digital camera and DVCPRO50 1/4" digital VTR for highly mobile EFP operation
- High-quality 50-Mbps recording rate allows recording of 4:2:2 digital component video signals
- Low 3.3:1 compression ratio assures outstanding picture quality
- Light weight: Approx. 4.0 kg including viewfinder (Approx. 6.5 kg in full operating condition)

Camera Features:

- Three 2/3" wide-type multiple-FTT CCD image sensors with 600,000-pixel
- Switchable 16:9/4:3 aspect ratio for both camera and viewfinder
- High-sensitivity 2,000 lux at F9.0
- Intra-frame compression method allows frame-by-frame editing
- Digital set-up allows numerical adjustment of parameters
- Set-up card allows parameter settings to be stored
- Minimum illumination 0.8 lux (f1.4, +36 dB)
- External camera control unit (option)

VTR Features:

- Superb picture quality across 5.75-MHz (Y) video bandwidth
- Records a full 33 minutes of high-quality digital pictures and sound on one compact 1/4" cassette
- Provides about 90 min of continuous recording time with Anton/Bauer battery
- 48-kHz sampling, 16-bit audio recording
- Four PCM audio channels and 1 analogue cue channel
- Built-in colour bar generator
- Full-colour playback

AJ-D900W

General

Power Requirement:	DC 12V (11V ~ 17V)
Power Consumption:	Less than 25W (target)
Operating Temperature:	0°C ~ 40°C
Storage Temperature:	-20°C ~ 60°C
Operating Humidity:	Less than 85%
Weight:	Approx. 3.9 kg including VF (target) Approx. 6.5 kg in full operation (target)
Dimensions (W x H x D):	128.6 x 204 x 333 mm

Camera Section

CCD Elements:	2/3" M-FIT CCD
Effective Elements:	625/16:9 936(H) x 575(V) 625/4:3 702(H) x 575(V) 525/16:9 948(H) x 485(V) 525/4:3 711(H) x 485(V)
Optical System:	F1.4 Prism system
Optical Filters:	A; Cross, B; 3200K, C; 4300K, D; 6300K 1; CLEAR, 2; 1/4ND, 3; 1/16ND, 4; 1/64ND
Digital Quantization:	10 bits A/D
Sampling Frequency:	36MHz
Digital Signal Processing:	36MHz, 16 bit
Programmable Gain:	Among -3/0/+3/+6/+9/+12/+15/+18/+21/+24/+36dB to L/M/H Position
Lens Mount:	Bayonet type
Sensitivity (89.9% reflection):	2000 lux at F9.0
Minimum Illumination:	0.8 lux (at F1.4 +36dB gain)
Signal-to-Noise Ratio:	625: 61dB (typical) 525: 63dB (typical)
Registration Error:	Less than 0.05%
Smear Level:	-130dB (typical)

VTR Section

Tape:	1/4" DVCPRO50 cassette tape
Tape Speed:	625: 67.708 mm/s 525: 67.640 mm/s
Maximum Recording Time:	33 min.
FF/REW Time:	Approx. 3 min.
Continuous Recording Time:	Approx. 90 min. with Anton/Bauer Trimpack 14 battery

Video Performance (Analog Component Out)

625/Bandwidth:	Y: 25Hz ~ 5.75MHz, +1.0/-3dB P _u /P _n : 25Hz ~ 2.75MHz, +1.0/-3dB
525/Bandwidth:	Y: 30Hz ~ 5.75MHz, +1.0/-3dB P _u /P _n : 30Hz ~ 2.75MHz, +1.0/-3dB
Signal-to-Noise Ratio:	More than 55dB
K Factor (2T):	Within 2%
Y/C Delay:	Within 20 ns

Audio Performance (Digital Audio)

Sampling Frequency:	48kHz
Quantization:	16 bit
Frequency Response:	20Hz ~ 20kHz +1.0/-1.0dB
Dynamic Range (at 1kHz):	More than 85dB (emphasis On, A weighted)
Distortion:	Within 1% (1kHz, reference level)
Wow & Flutter:	Below measurable limit
Headroom:	625: 18dB 525: 20dB
Emphasis:	T1=50μs, T2=15μs (ON/OFF Selectable)

Input/Output Signal

Audio Input:	XLR x 2 (CH1/CH3, CH2/CH4) balanced MIC: -60/-50/-40dBu LINE: +4/0/-6dBu
Mic In:	XLR x 1 balanced -60/-50/-40dBu selectable, Phantom +48V
Genlock Input:	BNC x 1, 1.0Vp-p, 75Ω
TC Input:	BNC x 1, 0.5V to 18V
Camera Out:	BNC x 1, 1.0Vp-p, 75Ω
Video Out:	BNC x 1, 1.0Vp-p, 75Ω
Audio Output:	XLR x 1, 0dBu low impedance CH1(CH3)/CH2(CH4)/MIX selectable
Earphone Output:	Stereo mini-jack x 2
TC Output:	BNC x 1, 2.0Vp-p, 75Ω

Others

DC In:	XLR 4-pin x 1, DC 11V ~ 17V
DC Out:	4-pin x 1, DC 11V ~ 17V
Lens:	12-pin x 1
ECU:	6-pin x 1
EVF:	20-pin x 1
VTR Connector (option):	26-pin x 1
Audio OUT:	12-pin x 1 (option), CH1/CH2 separate, unbalanced, -20dBu low impedance