

Panasonic

AJ-D610WB

2/3" IT-3CCD DVCPRO Camera/Recorder
(PAL:625)



DVCPRO

The 16:9/4:3 Switchable, 2/3" IT-3CCD Camera/Recorder



Introducing a camera/recorder that puts digital quality within reach of broadcasters and professionals. The AJ-D610WB combines a high-sensitivity 2/3" IT 3-CCD with DVCPRO's digital component system to deliver true broadcast-quality recording. This high-performance unit accepts a wide variety of 2/3" lenses and is switchable between 16:9 and 4:3 aspect ratios, making it ideal for broadcasting and professional needs.

High-Density 2/3" IT 3-CCD

The AJ-D610WB's 600,000-pixel CCD features a large light-collecting area that gives the camera a high S/N ratio plus outstanding sensitivity and a wide dynamic range. An innovative method for securing the CCDs to spectral prisms provides exceptionally high registration accuracy.

16:9/4:3 Aspect Ratio Switchable

The AJ-D610WB's CCDs feature a light-receiving section that adapts to the wide 16:9 aspect ratio. The aspect ratio can be instantly switched between the conventional 4:3 and wide 16:9 modes. When the optional AJ-VF20WE wide-

type viewfinder is used, the viewfinder screen changes automatically to match whichever aspect ratio the operator selects.

Superior Digital Recording Quality

The AJ-D610WB records a full 66 minutes of pictures and sound on a single, compact tape (AJ-P66MP). Quality is superb thanks to the 5.75-MHz video bandwidth (Y) and 2-channel PCM sound. The AJ-D610WB also adds advanced error correction features to assure excellent reliability.

Light Weight, Low Power Consumption

In ready-to-shoot condition - with lens, 1.5" viewfinder, cassette and battery pack in place - the AJ-D610WB weighs only 6.6 kg. It offers low power consumption, too, using 25 W or less when recording.

"SUPER GAIN" Enables 0.4-Lux Shooting Illumination

The super gain button boosts gain by a full +30 or +36 dB, for high-quality shooting even in dim lighting. This makes it possible to record subjects in lighting all the way down to 0.4 lux.

The programmable 3-position gain switch allows the operator to select from 11 settings (-3, 0, +3, +6, +9, +12, +15, +18, +21, +24, +30 dB) for complete control of low, medium and high gain preference.

"SUPER IRIS" for One-Button Backlighting

Pressing the Super Iris button will adjust the iris to provide correct exposure of backlit subjects, for example, when the subject moves from daylight outdoors to a darkened interior.



Digital Signal Processing

Digital circuitry delivers superior picture quality and assures reliable results regardless of temperature changes, aging, or vibration. Operation is simple and maintenance is minimal. The camera is easy to set up and adjust, even in the field.

Setup File on PCMCIA Memory Card

The camera's setup file can be saved onto an IC card (PCMCIA memory card). Creating and saving a variety of files makes it quick and easy to adapt the AJ-D610WB to different shooting conditions.

"Picture Link" for Non-Linear Editing Versatility

Add an optional board and memory card, and the AJ-D610WB's Picture Link function improves editing ease when used with the AJ-DE77/AJ-DE97 DVCPRO non-linear editors. This function writes data onto the tape and allows the operator to label each recorded scene with any of three marks. During editing, the operator can then, for example, automatically upload only scenes marked "OK."

Synchro Scan Electronic Shutter

The electronic shutter (1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000 sec) features a synchro scan capability (50.6 to 248 Hz) to reduce flicker when shooting CRT displays.

One ND/CC Filter Wheel

This simply designed, four-position (3200K, 5600K+1/8ND, 5600K, 5600K+1/64ND) optical filter allows quick, on-location adjustment to the light source. White balance and black balance levels are preset at the factory to adapt to each filter position, and you can store two adjustment values in memory for each position.

Compatible with Anton/Bauer Digital Battery

The AJ-D610WB is equipped with a gold mount plate for mounting an Anton/Bauer digital battery system. When the digital battery is in use, the remaining power is displayed in real time on the EVF. When using an Anton/Bauer Ultra Light, the lighting on/off and recording start/stop can be linked together.

Additional Features

- Auto White/Black Balance with Shockless AWB Control function
- Optional backup VTR connector (26-pin)
- Built-in EBU time code generator/reader and TC in/out connectors (BNC)
- One-touch camera status report function
- One-touch Rec review function
- Standard EBU colour bar output
- Built-in Gen-lock function
- Built-in monitor speaker
- Phantom power supply (48-VDC phantom mic)
- Extension control (AJ-EC2E/AJ-EC3E option)

Standard Accessories

- Shoulder Strap
- Microphone
- Tripod Adaptor
- Anton/Bauer gold mount plate (installed)



Rearside VTR Setting



Front Camera Operation



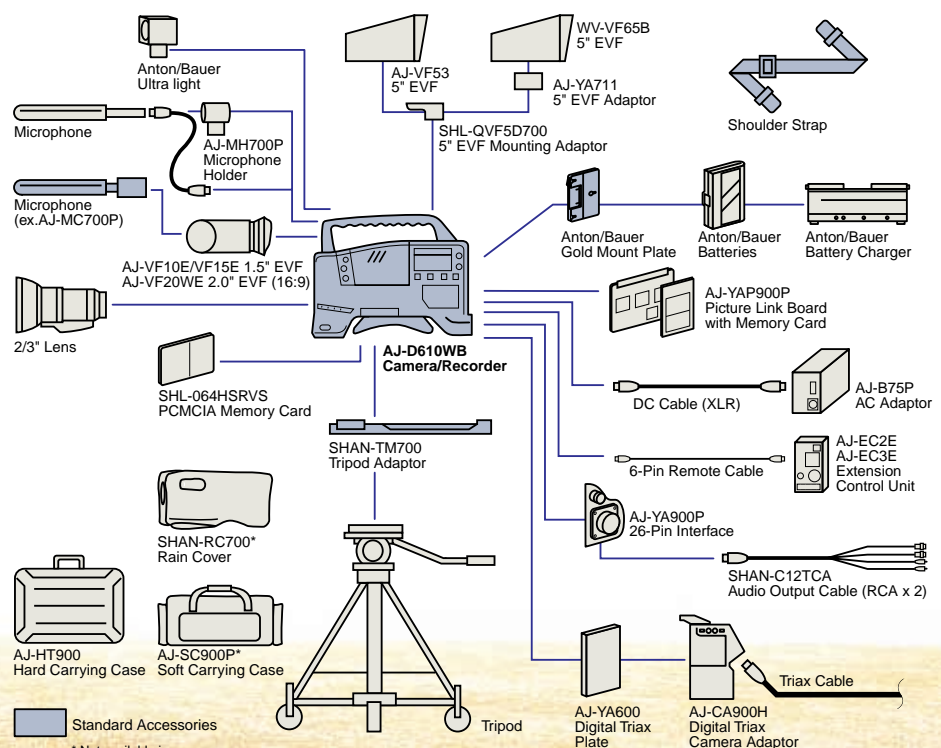
Rearside Connectors



Frontside Camera Operation



Rear Connector Panel



OPTIONAL ACCESSORIES



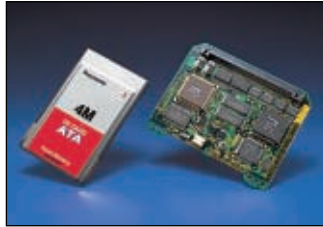
AJ-VF20WE
2" EVF 16:9/4:3 switchable



AJ-VF15E
High Grade 1.5" EVF for 4:3



AJ-VF10E
Standard 1.5" EVF for 4:3



AJ-YAP900P
Picture Link Board with Memory Card (4MB)



SHL-064HSRVS
PCMCIA Memory Card (64KB) for Scene File



AJ-YA900P
26 pin Interface Adaptor

AJ-VF53
5" EVF

AW-VF80
5" EVF

WV-VF65B
5" EVF

SHL-QVF5D700
5" EVF Mounting Adaptor

AJ-YA711
5" EVF Adaptor

AJ-MH700P
Microphone Holder

AJ-B75P
AC Adaptor



AJ-EC2E/AJ-EC3
Extension Control Unit

AJ-HT900
Hard Carrying Case

AJ-SC900P
Soft Carrying Case
(Not available in some area)

SHAN-RC700
Rain Cover
(Not available in some area)

DVCPRO M-size Video Cassettes

Model No.	Time	Length
AJ-P66MP	66 min.	137 m
AJ-P46MP	46 min.	96 m
AJ-P33MP	33 min.	70 m
AJ-P24MP	24 min.	51 m
AJ-P12MP	12 min.	27 m
AJ-CL12MP		Cleaning Tape

SPECIFICATIONS

GENERAL

Power Requirement:	DC12V (11 V to 17 V)
Power Consumption:	25 W
Operating Temperature:	0 °C to 40 °C
Storage Temperature:	-20 °C to 60 °C
Operating Humidity:	Less than 85%
Weight:	6.6 kg (including lens, viewfinder, tape, and battery pack) *Varies according to the equipment composition.

CAMERA SECTION

Camera	
Pick-up Device:	Interline transfer 2/3" CCD Image sensor (x3)
Picture Element:	600,000 pixels
Digital Quantization:	10 bits A/D
Digital Signal Processing:	18 MHz
Sensitivity:	2000 lux with F13.0
Minimum Illumination:	0.4 lux (F1.4, +36 dB gain)
Shutter Speed:	1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000-sec.
Syncro Scan:	1/50.6 to 1/248-sec. (variable)
Optical Filter:	3200K, 5600K+1/8ND, 5600K, 5600K+1/64ND,
S/N Ratio:	61 dB (standard)
Horizontal Resolution:	750 lines (center)
Vertical Resolution:	450 lines/500 lines (Super-V)
Registration:	Less than 0.05% (all zones, without lens)
Gain:	-3/0/+3/+6/+9/+12/+15/+18/+21/+24/ +30/+36 dB
Optical System:	f1.4 prism system
Lens Mount:	2/3" bayonet mount
Viewfinder	
Viewfinder:	Optional AJ-VF10E, AJ-VF15E or AJ-VF20WE

VTR SECTION

General	
Format:	DVCPRO 1/4" Digital compressed recording
Recording Track:	Digital Video Digital Audio: 2CH Cue: 1 Track Sub-Code CTL: 1 Track
Tape Speed:	33.854 mm/s
Tape:	1/4-inch Metal Particle Tape
Cassette Size:	AJ-P66MP: 97.5 x 64.5 x 14.6 mm
Recording/Playback Time:	66 min. with AJ-P66MP cassette
FF/REW Time:	Around 3 min. using AJ-P66MP
Video*	
Sampling Frequency:	Y: 13.5 MHz C (PB/PR): 3.375 MHz
Quantization:	8 bits/sample
Error Correction:	Reed-Solomon Code
Bandwidth:	Y: 30 Hz to 5.75MHz +1.0/-3 dB
S/N Ratio:	55 dB
K Factor (2T):	2 % or less
Linearity:	2 % or less
Y/C Delay:	30 ns or less
Audio*	
Sampling Frequency:	48 KHz
Quantization:	16 bits/sample
Frequency Response:	20 Hz to 20 kHz, +1.0/-1.0 dB
Dynamic Range:	More than 85 dB (at 1kHz, AWTD)
Distortion:	Less than 0.1% (at 1 kHz, reference level)
Wow & Flutter:	Below measurable limit
Headroom:	18 dB
Emphasis:	T1=50µS T2=15µS (ON/OFF Selectable)

Signal Inputs

Mic In:	XLR balanced, 3kΩ -60/-50/-40 dBu selectable
Audio In :	XLR (CH1/CH2), balanced, 10kΩ MIC/LINE Switchable MIC: -60/-50/-40 dBu selectable, LINE: +4/0/-6 dBu selectable
Genlock In/Video Return:	BNC x 1, 1.0 V[P-P] 75Ω
Time Code In:	BNC x 1, 0.5 to 8 V[P-P], high impedance

Signal Outputs

Camera Out:	BNC x 1, 1.0 V[P-P], 75Ω
Video Out:	BNC x 1, 1.0 V[P-P], 75Ω
Audio Out:	XLR (CH1/CH2/MIX selectable) 0 dBu balanced, low impedance
Earphone:	Stereo mini jack (x 1)
Timecode Out :	BNC x 1, 1.5 V[P-P], low impedance
Others	
26P VTR Connector (option):	Component video, 75Ω
ECU:	6-pin, Camera Remote
DC Out:	4-pin, DC 11V to 17V, 100mA
LENS:	12-pin

*The specifications given above were measured by playing back tapes recorded by the AJ-D610WB 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

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Bahrain	Tel. 973-252292	Kuwait	Tel. 965-481-2123
Belgium	Tel. 32-2-481-0481	Lebanon	Tel. 961-1-216827
China	Tel. 86-10-6515-8828	Malaysia	Tel. 60-3-5549-5422
(Hong Kong)	Tel. 852-2313-0888	Netherlands	Tel. 31-73-640-2721
Czech Republic	Tel. 42-02-2166-4120	New Zealand	Tel. 64-9-272-0100
Denmark	Tel. 45-43-200-853	Norway	Tel. 47-22916800
Egypt	Tel. 20-2-3938151	Pakistan	Tel. 92-21-455-5766
Finland	Tel. 358-9-521-5253	Peru	Tel. 51-145-29470
France	Tel. 33-149464388	Poland	Tel. 48-3912-3173
Germany	Tel. 49-611-18160	Portugal	Tel. 351-21-424-8630
Greece	Tel. 30-1-969-2300	Russia	Tel. 7-095-258-4237
Hungary	Tel. 36-1-382-6060	Saudi Arabia	Tel. 966-1-465-0709
Indonesia	Tel. 62-21-801-5666 62-21-385-9449	Singapore	Tel. 65-6270-0110
		Slovakia	Tel. 421-7-5292-1423
		South Africa	Tel. 27-11-313-1400
		Spain	Tel. 34-93-425-9300
		Sweden	Tel. 46-8-680-8238
		Switzerland	Tel. 41-41-259-9632
		Thailand	Tel. 66-2-731-8888
		Turkey	Tel. 90-216-416-0150
		U.A.E.	Tel. 971-4-282201
		U.K.	Tel. 44-118-902-9210

