

# Panasonic

AJ-D410A  
DVCPRO Camera/Recorder  
(PAL:625)



**DVCPRO**



# 184 Minutes of Recording in a Camcorder that Offers

The AJ-D410A is a high-performance digital camera/recorder that delivers the high quality, versatility, reliability and productivity that users expect from a DVCPRO digital component product. Utilizing long-life metal particle tape, it is ideally suited for newsgathering, programme production, event video and other professional and industrial applications. The VTR section provides a full 184 minutes of broadcast-quality recording on a DVCPRO L cassette. The camera section delivers superb images with excellent horizontal resolution, and invaluable features like 6 Scene Memories and 3-mode Auto Iris settings that assure easy, accurate shooting. The AJ-D410A also accommodates a slot-in wireless receiver. With all these features plus compact size and lightweight (5 kg in full operating condition), the AJ-D410A gives you both outstanding performance and mobility.

## 184 Minutes of Recording Time

The AJ-D410A offers extended-play convenience, recording a full 184 minutes on a single DVCPRO L cassette. Both picture and sound are broadcast quality with DVCPRO recording and superb 2-channel digital audio with 16-bit, 48-kHz sampling.

## 800 Lines of Horizontal Resolution

Equipped with 1/2-inch 480,000-pixel IT (Interline Transfer) CCDs, the AJ-D410A provides outstanding picture quality, with 800 lines of horizontal resolution, S/N ratio of 60 dB, and very low smear.

## Accepts a Wide Range of Standard 1/2" Lenses

The industry-standard 1/2-inch bayonet mount readily accommodates the many lenses that are available on the market. For superior ease of use, the AJ-D410A features automatic white shading correction, which adjusts the camera to match the lens.

## High-Quality Digital Processing

Digital circuitry enables a host of creative image-processing functions, including Black Stretch/Press, Auto White Knee, Variable Gamma, Detail-optimized Skin Detail, and Colour.

## Six User Scene Files

This memory function enables rapid setup, by letting you store and instantly retrieve specific camera settings. Five common setup conditions are factory stored for quick and easy use, and you can optimize

these to meet your most encountered shooting situations. Additionally, one user set memory is available for common user application. These setting in combination with the Scene file memories allow for quick recall of your favorite settings.

## Auto Iris with Backlighting Mode and Spotlight Mode

The 3-mode Auto Iris feature automatically adjusts the iris to match lighting conditions. Select from BACK L to compensation for backlight, STD for standard operation, and SPOT L to ignore all but the centre for optimum exposures.

## Shock-less Gain and Shock-less AWB Selector

You can choose one of three speeds (high/mid/low) to switch between the available gain settings (0/+3/+6/+9/+12/+15/+18/+21/+24/+30/+36 dB) and also between a wide range of freely allocated gain selector settings, Auto White Balance preset and user-set values (A/B). The shock-less function ensures seamless switching, preventing any sudden changes in the image. This lets you quickly adapt to ambient lighting changes while recording.




**Camera Setting and Control**

**Audio Setting**

**Side Connectors**

**Front Switches**

**Rear Connectors**

# Superb Picture Quality, Ease of Use, and High Mobility

## Quick Start, Quick Focus and Full Auto

The AJ-D410A's easy shooting design helps to capture those shots that just won't wait for leisurely set-ups. For quick shooting, the AJ-D410A enters REC standby only 3 seconds after the power is turned on, enabling fast focusing by instantly opening the iris, controlling the incoming light so that critical focus may be accomplished at the shallowest depth of field with Quick Focus Support. It also includes a Full Auto mode that automatically sets the gain, white balance, and iris.

## Auto Tracking White Balance

White balance is automatically adjusted, in real time, to match your subject's lighting. Even difficult scenes like following someone as they walk from indoors to outdoors are easy to shoot, and result in highly natural color.

## Accepts a Slot-In Wireless Receiver

For even greater mobility in news gathering applications, the AJ-D410A can be integrated with an optional wireless receiver.

## Auto and Manual Audio Recording Levels

The recording level can be set to either Auto or Manual for channels 1 and 2. The Auto setting adjusts the level automatically according to the input sound volume, and Manual lets you adjust the level as desired.

## Interval REC and Time Stamp

The Interval REC function is ideal for time lapse recording in observation or surveillance, nature/wildlife, scientific or industrial applications. Images can have a time stamp embedded into the video picture, which shows hours, minutes, seconds and frames along with the date, if needed.

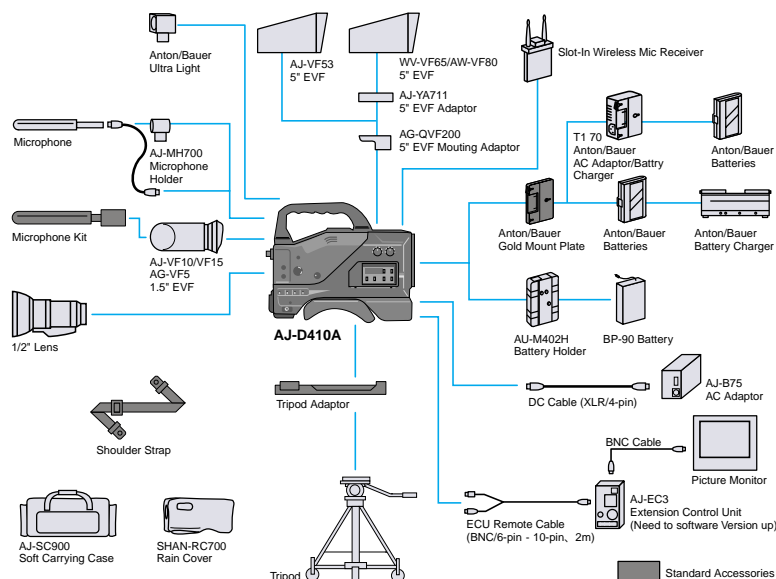
## Light Weight, Low Power Consumption

In ready-to-shoot condition — with lens, 1.5" viewfinder, cassette and battery pack in place — the AJ-D410A weighs only 5 kg. It offers low power consumption of 20 W or less when recording.

## Additional Features

- 4-position (3200K, 5600K+1/8ND, 5600K, 5600K+1/64ND) ND/CC optical filter
- Electronic shutter (1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000-sec) with synchro scan capability (1/50.2 to 1/248-sec.)
- Built-in Gen-lock function
- Built-in SMPTE/EBU time code generator/reader and TC IN/OUT terminals

- One-touch camera status report function
- One-touch Record review function
- Emergency Tape Release
- Extension control (AJ-EC3 option)
- Anton/Bauer gold mount plate installed
- Built-in SMPTE/EBU colour bar generator
- Colour playback capability
- 48-V phantom power supply





## OPTIONAL ACCESSORIES



AJ-VF15 1.5" High-Grade EVF



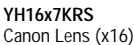
AJ-VF10 1.5" EVF



AG-VF5 1.5" EVF



YH19x6.7KRS  
Canon Lens (x19)



YH16x7KRS  
Canon Lens (x16)



S14x7.3BRM4  
Fujinon Lens (x14)



S20x6.4BRM4  
Fujinon Lens (x20)



AJ-EC3  
Extension  
Control  
Unit



T1 70  
Anton/Bauer  
AC Adaptor/  
Battery Charger



DVCPRO L Cassette Tape

Model No.	Rec/Play Time	Length
AJ-5P92LP	184 min.	377 m
AJ-P126LP	126 min.	259 m
AJ-P94LP	94 min.	194 m
AJ-P66LP	66 min.	137 m
AJ-P34LP	34 min.	72 m
AJ-CL12LP	Cleaning Tape	



AJ-B75  
AC Adaptor



AU-M402H  
Battery Holder



AJ-MH700  
Microphone Holder

## SPECIFICATIONS

### GENERAL

Power Requirement:	DC12V (11 V to 17 V)
Power Consumption:	20 W (without VF)
Operating Temperature:	5 °C to 40 °C
Storage Temperature:	-20 °C to 60 °C
Operating Humidity:	10 to 90%
Weight:	Approx. 5 kg range (including lens, viewfinder, tape and battery) *Varies according to the equipment composition.

### CAMERA SECTION

Pick-up Device:	Interline Transfer 1/2" CCD Image sensor (x3)
Picture Element:	480,000 pixels
Digital Quantization:	10 bits A/D
Digital Signal Processing:	14.1875 MHz/28.375 MHz
Sensitivity:	2000 lux with F11
Minimum Illumination:	0.5 lux (+36 dB gain, F1.4)
Shutter Speed:	1/60, 1/120 1/250, 1/500, 1/1000, 1/2000-sec
Synchro Scan:	1/50.2 to 1/248.0-sec. (variable)
Optical Filter:	3200K, 5600K+1/8ND, 5600K, 5600K+1/4ND
S/N Ratio:	60dB (standard)
Horizontal Resolution:	800 lines (center)
Registration:	Less than 0.03% (all zones, without lens)
Gain:	0/+3/+6/+9/+12/+15/+18/+21/+24/ +30/+36 dB
Optical System:	f1.4 prism system
Lens Mount:	1/2" bayonet mount
Viewfinder	
Viewfinder:	Optional AJ-VF15, AJ-VF10 or AG-VF5

### VTR SECTION

General	
Format:	DVCPRO 1/4" Digital compressed recording
Recording Track:	Digital Video/Audio (2CH): Helical Track TC: Helical Track (sub-code area) Cue: 1 Track, CTL: 1 Track
Tape Speed:	33.854 mm/s
Tape:	1/4-inch Metal Particle Tape
Recording Time:	Max. 184 min. with AJ-5P92LP
FF/REW Time:	Around 3 min. using AJ-5P92LP
Video*	
Sampling Frequency:	Y: 13.5 MHz C (PB/PR): 3.375 MHz
Quantization:	8 bits/sample
Error Correction:	Reed Solomon Product Code
Bandwidth:	Y: 25 Hz to 5.75MHz +1.0/-3 dB
Audio*	
Sampling Frequency:	48 KHz
Quantization:	16 bits/sample
Frequency Response:	20 Hz to 20 kHz, +1.0/-1.0 dB
Signal Inputs	
Genlock In:	BNC x 1, 1.0 Vp-p 75Ω
Mic In:	XLR x 1, balanced, -60/-50/-40 dBu selectable
Audio In :	XLR x 2 (CH1/CH2), balanced, 10kΩ LINE/MIC/MIC+48V switchable LINE: +4/0/-6 dBu selectable, MIC: -60/-50/-40 dBu selectable, MIC+48V: Phantom power supply
TC In:	BNC x 1, 0.5 to 8 Vp-p, high impedance

### Signal Outputs

Camera Out:	BNC x 1, 1.0 Vp-p 75Ω
Video Out:	BNC x 1, 1.0 Vp-p 75Ω
S-Video Out:	4-pin x 1, Y: 1.0 V p-p, C: 0.3 Vp-p, 75Ω
Audio Out:	RCA x 2 (CH1/CH2) -6 dBu, low impedance, unbalanced
TC Out:	BNC x 1, 2.0 Vp-p, low impedance
Others	
DC In:	XLR x 1
DC Out:	4-pin, DC 11V to 17V, Max. 1A
Earphone:	Stereo mini jack (x 1)
LENS:	12-pin
ECU:	6-pin, Camera Remote
Wireless Receiver:	25-pin, D-sub female

\*The specifications given above were measured by playing back tapes recorded by the AJ-D410A 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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Austria	Tel. 43-1-61080-773	Kuwait	Tel. 965-481-2123
Bahrain	Tel. 973-252292	Lebanon	Tel. 961-1-216827
Belgium	Tel. 32-2-481-0481	Malaysia	Tel. 60-3-755-0511
Brazil	Tel. 55-11-3889-4035		60-3-757-6622
Canada	Tel. 1-905-624-5010	Mexico	Tel. 52-5-488-1000
China	Tel. 86-10-6515-8828	Netherlands	Tel. 31-73-640-2721
(Hong Kong)	Tel. 852-2313-0888	New Zealand	Tel. 64-9-272-0100
Czech Republic	Tel. 42-02-2166-4120	Norway	Tel. 47-22916800
Denmark	Tel. 45-43-200-853	Pakistan	Tel. 92-21-455-5766
Egypt	Tel. 20-2-3938151	Panama	Tel. 507-229-2955
Finland	Tel. 358-9-521-5253	Peru	Tel. 51-145-29470
France	Tel. 33-149464388	Philippines	Tel. 63-2-633-6162
Germany	Tel. 49-611-18160	Poland	Tel. 48-3912-3173
Greece	Tel. 30-1-969-2300	Portugal	Tel. 351-21-424-8630
Hungary	Tel. 36-1-382-6060	Puerto Rico	Tel. 1-787-750-4300
Indonesia	Tel. 62-21-801-5666	Russia	Tel. 7-095-258-4237
	62-21-385-9449	Saudi Arabia	Tel. 966-1-465-0709
Iran	Tel. 98-21-2271463	Singapore	Tel. 65-843-7691
Italy	Tel. 39-02-67881	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
Taiwan	Tel. 886-2-2725-9100
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
U.S.A.	Tel. 1-323-436-3500

