

# Panasonic

# AJ-D215H

1/3" IT-3CCD DVCPRO Camera/Recorder  
(PAL: 625)



**DVCPRO**

**PV**  
series

# High Cost-Performance DVCPRO Camera/Recorder that Records for Up to 184 minutes on a Single Tape

The AJ-D215H uses the DVCPRO format, recognized throughout the broadcasting industry for superior digital pictures, sound and reliability. This high cost-performance unit lets you record for up to 184 minutes on a single tape, making it ideal for shooting long events such as weddings, performances and long presentations. The AJ-D215H is also equipped for convenience. It comes with a built-in ND filter that's turned on and off by a simple slide switch, allowing you to continue shooting as you move indoors or outdoors without worrying about the lighting. The DVCPRO Terminal (IEEE 1394) interface enables connection to a DVCPRO VTR for use as a digital backup with excellent picture quality.

## Up to 184 Minutes of Recording

The AJ-D215H records for up to 184 minutes on a single DVCPRO large cassette (AJ-5P92L)\*. This lets you shoot even long events without switching tapes, while enjoying a high level of reliability because DVCPRO's metal particle tape is renowned in the broadcasting industry for durability and stability.

\* For AJ-5P92L cassette tapes, use a VTR supporting DVCPRO (25Mbps) 184 minutes tapes.

## High-Density 1/3" IT 3-CCD

This 3-CCD unit with double-density pixel distribution provides superior resolution, high S/N ratio, outstanding sensitivity and a wide dynamic range. Combined with the gapless dichronic prism, it delivers razor-sharp images and true-to-life colour.

## 5-Lux Shooting Illumination

A CCD with on-chip lens and +18 dB gain-up let you take quality shots in lighting as low as 5 lux. Either of two

gain-up patterns can be selected — 0/+6/+12 dB, and 0/+9/+18 dB.

## Built-in ND Filter

The AJ-D215H's 1/16 ND filter is set by simply sliding it into or out of position. It ensures stable picture quality even when shooting outdoors under bright sunlight.

## Auto White Balance — Preset/Memory/ATW

The AJ-D215H is factory-preset with three white balance settings: for use indoors, outdoors, and under fluorescent lights. You can store additional settings in memory for quick recall, and an ATW setting is available.

## Accepts 1/3" Lens

The AJ-D215H accepts most high-performance, professional 1/3" bayonet lenses. An optional lens adaptor also allows the use of many 1/2" lenses.



# DVCPRO PV series

## High-Resolution 1.5" EVF

The AJ-D215H has a large, 600-line B/W viewfinder. A 3-D mechanism provides quick adjustment for use by different operators. A 50-mm-diameter detachable eyepiece and adjustable diopter accommodate operators who wear prescription eyeglasses.

## DVCPRO: Superior Digital Recording

Preferred by broadcasters around the world, DVCPRO records digital component signals across a 5.75-MHz (Y) video bandwidth, with a video S/N ratio of 55 dB. The AJ-D215H's DVCPRO digital recording with error correction delivers outstanding picture quality and reliability. The AJ-D215H offers superb audio, too, thanks to a 48-kHz sampling, 16-bit recording, 2-channel PCM digital system.

## DVCPRO Terminal (IEEE 1394) Interface Board

This IEEE 1394 based DVCPRO terminal lets you connect to a back-up DVCPRO VTR for digital dubbing with superior picture and sound quality. Unlike the interface of DV home-use models, the audio signal is locked to prevent lags.



Rear Panel Connector

## Playback with No Adaptor Necessary

View pictures in black and white on the viewfinder, or in full colour on an external TV monitor via VIDEO OUT. The field team can check the pictures on-site or do microwave transmission to another station.



Side Panel Connector

## One-Touch Camera Status Report

Simply touch a button to display a list of all switch settings in the viewfinder. The AJ-D215H can be programmed to display only the settings the operator wants to monitor. The status report provides an overall system check before shooting begins.

## Easy Set-Up, Easy Maintenance, Digital Signal Processing

The AJ-D215H is easy to set up and adjust — even on location — and requires little maintenance. The digital circuitry ensures that characteristics remain stable regardless of temperature changes, aging and vibration.

## Manual Audio Level

Separate dials for channels 1 and 2 let you manually set the audio recording level when desired.

## Light Weight, Low Power Consumption

The AJ-D215H weighs only 5.9 kg in full operating condition (with lens, EVF, battery and cassette). Power consumption is 17 W or less when recording.

## Compatible with Anton/Bauer Digital Battery

A gold mount plate allows use of an Anton/Bauer digital battery system. The remaining power is shown in the viewfinder. When using an Anton/Bauer Ultra Light, the lighting on/off and recording start/stop can be linked.

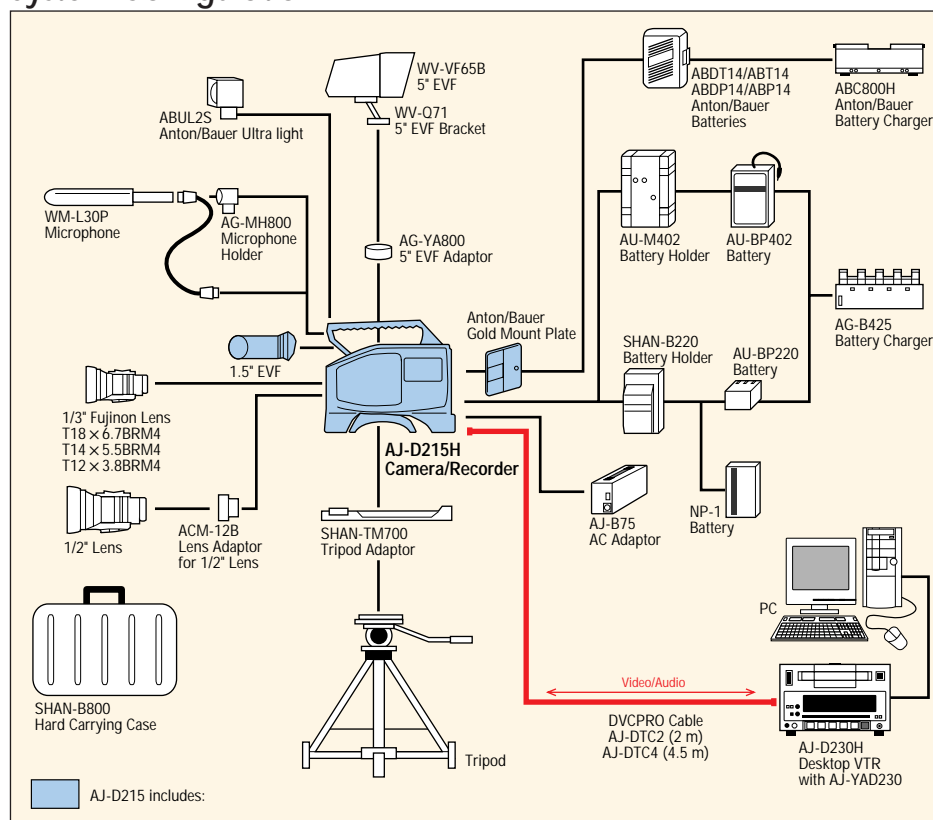
## Additional Features

- Electronic shutter (1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000-sec.)
- Built-in EBU time code generator/reader
- One-touch Rec. review function
- Built-in monitor speaker
- 2-channel line/microphone input (XLR)
- Video (BNC) and S-VIDEO (4-pin) output
- Phantom power supply (48-VDC phantom mic)
- Stereo earphone jack
- External DC IN connector

## Standard Accessories

- 1.5" Electronic Viewfinder
- Anton/Bauer Gold Mount Plate (installed)

## System Configuration



# Broadcast Digital Quality for Professional Use

Panasonic's compact, lightweight DVCPRO digital VTRs offer extremely high picture quality. In addition to the broadcast series, which continues to win high acclaim from broadcasters worldwide, the line-up has now been expanded to include a low-cost professional series. Another reason why DVCPRO is quickly becoming the standard in image production.



## DVCPRO

### OPTIONAL ACCESSORIES

**AG-MH800** Microphone Holder for WM-L30  
**AJ-DTC2** DVCPRO Terminal Cable (2 m)  
**AJ-DTC4** DVCPRO Terminal Cable (4.5 m)  
**AG-YA800** 5" EVF Adaptor for WV-VF65B  
**SHAN-TM700** Tripod Adaptor  
**AJ-B75** AC Adaptor  
**T18 x 6.7BRM4** 1/3" Bayonet Type Lens — Fujinon  
**T14 x 5.5BRM4** 1/3" Bayonet Type Lens — Fujinon  
**T12 x 3.8BRM4** 1/3" Bayonet Type Lens — Fujinon

**WCV-65** Wide Converter for T14 x 5.5BRM4 Lens — Fujinon  
**ACM-12B** Lens Adaptor for 1/2" Lens — Fujinon

Battery Holder	Battery Pack	Battery Charger
Anton/Bauer Gold Mount Plate (Supplied)	Anton/Bauer ABT14, ABT14, ABDP14, ABP14	Anton/Bauer ABC800H
AU-M402H	AU-BP402	AG-B425
SHAN-B220	AU-BP220	

### DVCPRO Large Video Cassettes

Model No.	Time	Length
AJ-5P92L*	184 min.	377 m
AJ-P126L	126 min.	259 m
AJ-P94L	94 min.	194 m
AJ-P66L	66 min.	137 m
AJ-P34L	34 min.	72 m
AJ-CL12L		Cleaning Tape

\* For AJ-5P92L cassette tapes, use a VTR supporting DVCPRO (25Mbps) 184 minutes tapes.

### SPECIFICATIONS

#### GENERAL

Power Requirement:	DC12V (10.5V to 17V)
Battery:	Anton/Bauer, NP-1, BP-90, AU-BP402, AU-BP220
DC In:	XLR 4-pin (Male)
Power Consumption:	Less than 17W (including 1.5" viewfinder)
Operating Temperature:	0°C to 40°C
Storage Temperature:	-20°C to 60°C
Operating Humidity:	Less than 80%
Weight:	Approx. 5.9 kg (including lens, V.F., tape, and battery pack)
Continuous Recording Time:	Approx. 100 min. with ABT14, Anton/Bauer Trimpac Battery

#### CAMERA SECTION

<b>Camera</b>	
Pick-up Device:	Interline Transfer 1/3" CCD Image Sensor with On-Chip Lens (x3)
Digital Quantization:	8 bits A/D
Digital Signal Processing:	13.5 MHz/27 MHz
Sensitivity:	2000 lux with F5.6 ±1/2, 3200K
Minimum Illumination:	5 lux (F1.4, +18dB gain)
Shutter Speed:	1/100 to 1/8000-sec.
S/N Ratio:	58dB (typical)
Horizontal Resolution:	500 TV lines (Center)
Vertical Resolution:	500 TV lines
Registration Error:	Less than 0.03% (all zones, without lens)
Gain:	0/+6/+12dB, 0/+9/+18dB
Optical System:	F1.4 prism system
ND Filter:	1/16 Manual on/off by slide switch
Lens Mount:	1/3" bayonet mount (conversion lens)

#### View Finder

CRT:	1.5" monochrome
Horizontal Resolution:	600 TV lines (Center)
Control:	VR: Bright, Contrast, Peaking SW: Tally, Zebra, Character

#### VTR SECTION

<b>General</b>	
Format:	DVCPRO 1/4" Digital compressed recording
Recording Track:	Digital Video Digital Audio: 2CH Sub-Code CTL: 1 Track
Tape Speed:	33.854 mm/s
Tape:	1/4-inch Metal Particle Tape
Cassette Size:	AJ-5P92L: 125 x 78 x 14.6 mm
Recording/Playback Time:	184 min. with AJ-5P92L cassette
FF/REW Time:	Approx. 8 min. using AJ-5P92L
<b>Video*</b>	
Sampling Frequency:	Y: 13.5 MHz C (P <sub>B</sub> /P <sub>R</sub> ): 3.375 MHz
Quantization:	8 bits/sample
Error Correction:	Reed-Solomon Code
Bandwidth:	Y: 0 to 5.75 MHz +1.0/-3.0dB
S/N Ratio:	55dB
Y/C Delay:	50 ns or less
<b>Audio*</b>	
Sampling Frequency:	48kHz
Quantization:	16 bits/sample
Frequency Response:	20Hz to 20kHz, +1.0dB/-1.5dB
Distortion:	Less than 0.2% (at 1kHz, reference level)

Crosstalk:	Less than -65dB (at 1kHz, between 2 channels)
Wow & Flutter:	Below measurable limit
Headroom:	18dB
AGC Level:	Standard, +8dB
<b>Signal Inputs</b>	
Front Mic In:	XLR 3-pin, balanced, -60dBu, 3k -60/-50/-40dBu selectable
Audio In (CH1/CH2):	MIC/LINE Switchable with internal DIP SW MIC: -60/-50/-40dBu selectable, 10k LINE: -6/0/+4dBu selectable, 10k
<b>Signal Outputs</b>	
Video Out:	BNC x 1, 1.0Vp-p, 75
S-VIDEO Out:	4-pin x 1 Y: 1.0Vp-p, 75 C: 0.3Vp-p, 75
Audio Out (CH1/CH2):	RCA (CH1/CH2), -6dBu unbalanced, low impedance
Headphones:	Stereo mini jack
<b>Others</b>	
DVCPRO I/F:	IEEE1394 Standard (6-pin)
Lens:	12-pin
DC IN:	XLR 4-pin (DC 12V)

\* 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 subject to change without notice. These products may be subject to export regulations.

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