

Panasonic
ideas for life

AJ-SDC615
2/3" IT-3CCD DVCPRO Camera-Recorder
(NTSC:525)



DVCPRO

Superior Picture Quality, Mobility and Reliability— Ideal for News Gathering

Superior Picture Quality, Mobility and Reliability



The AJ-SDC615 camera-recorder combines the superior picture quality needed for professional work with the superb mobility and ease of use required in the field.

A 2/3" 520,000-pixel 3CCD camera system and 12-bit digital signal processor assure high sensitivity and excellent pictures. Inheriting the same compact design as the high-end AJ-SDX900, the AJ-SDC615 is well balanced and lightweight yet rugged. A number of shooting assist functions improve operating ease. Also equipped with an IEEE 1394 digital interface, the AJ-SDC615 is ready for IT applications and mid level production.

With this outstanding combination of picture quality and mobility, the AJ-SDC615 is a terrific choice for news gathering and sports coverage.

■ Wide 2/3" CCD for High Sensitivity and High Image Quality

The AJ-SDC615 features a 2/3" 520,000-pixel 3CCD imaging system and with a high sensitivity rating of F13 at 2000 lux. You can shoot in light as low as 0.01 lux with minimal smear. With 750 lines of resolution and a -63dB S/N, the AJ-SDC615 meets virtually any mid level production need. It has built-in versatility with menu selectable 16:9 or 4:3 aspect ratios while recording to the Emmy award winning format DVCPRO.

■ 12-Bit Digital Processing Circuit

The DSP circuit features 12-bit A/D conversion and 12-axis matrix color correction. This achieves better overall picture quality, with finer gradation and improved color expression. It also allows correction in specific color regions without changing the overall color tone.



(correction in cyan color region)

■ Four User Scene Files

Store specific camera settings in memory, then retrieve them when needed for quick, easy setup. Four files with settings can be stored in the camera's memory.

■ Digital Zoom

This new support function lets you digitally zoom the image to two times its normal size.

■ User Buttons and User Menu

Three user buttons are provided. Assign a function to each, and then you can select those functions with pushbutton ease. You can also customize the on-screen menu with the items you use most often, then display them by simply pressing a button.

■ Auto Tracking White Balance

The white balance is automatically adjusted, in real time, as the lighting changes. It is easy to get natural color even when shooting scenes with difficult lighting conditions, such as when following a subject walking from indoors to outdoors.

■ Quick Response

The AJ-SDC615 enters standby mode about three seconds after you switch on the power, and recording begins about 0.5* sec after you press the REC button. The tape loads and unloads quickly, for fast changes.

*About 2 sec when the unit is in power save mode.

■ IEEE 1394 Digital Interface

The AJ-SDC615's DVCPRO terminal complies with the IEEE 1394 digital interface standard. Use it to upload recorded materials directly to a nonlinear editor or server. The AJ-SDC615 works as both player and recorder. This makes it easy to use the AJ-SDC615 in PC-based operations.

■ Locking Audio Dial

You can lock the audio level dial for the mic/line input on the rear panel by simply pressing it. Once you've set the dial where you want it, lock it in place to prevent mistakes.

Reliability— Ideal for News Gathering



■ Interval REC

The interval REC function (minimum interval: 2 seconds) is ideal for time lapse recording, such as in environmental, scientific or industrial applications calling for observation or surveillance.

■ Digital Recording Quality

The AJ-SDC615 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-SDC615 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-SDC615 weighs about 11 lbs (body: approx. 9 lbs). It offers low power consumption of 24W when recording.

■ System and Options

- Accepts a "Slot-In" wireless receiver
- UMID standards, GPS data recording with the optional AJ-GPS900G GPS unit
- 48V phantom microphone power supply
- Simple camera remote with the optional AJ-EC3P Extension Control Unit (ECU)
- Anton/Bauer gold mount plate (installed)
- 26-pin multi-cable camera remote system support (not available in some areas.)

■ Additional Features

- 4-position (3200K, 5600K+1/8ND, 5600K, 5600K+1/64ND) optical filter
- One-touch camera status report
- Electronic shutter of 1/100, 1/120, 1/250, 1/500 1/1000 and 1/2000 sec, plus synchro-scan (1/60.3 to 1/249.7 sec)
- Marker selector to display the 4:3 (window box) screen marker when using the wide viewfinder, the AJ-VF20WB

- One-touch rec review function
- Built-in gen-lock function
- Built-in monitor speaker
- Video In capability
- Color playback capability
- Built-in SMPTE/EBU time code generator/reader and TC input and output
- Built-in SMPTE/EBU color bar generator



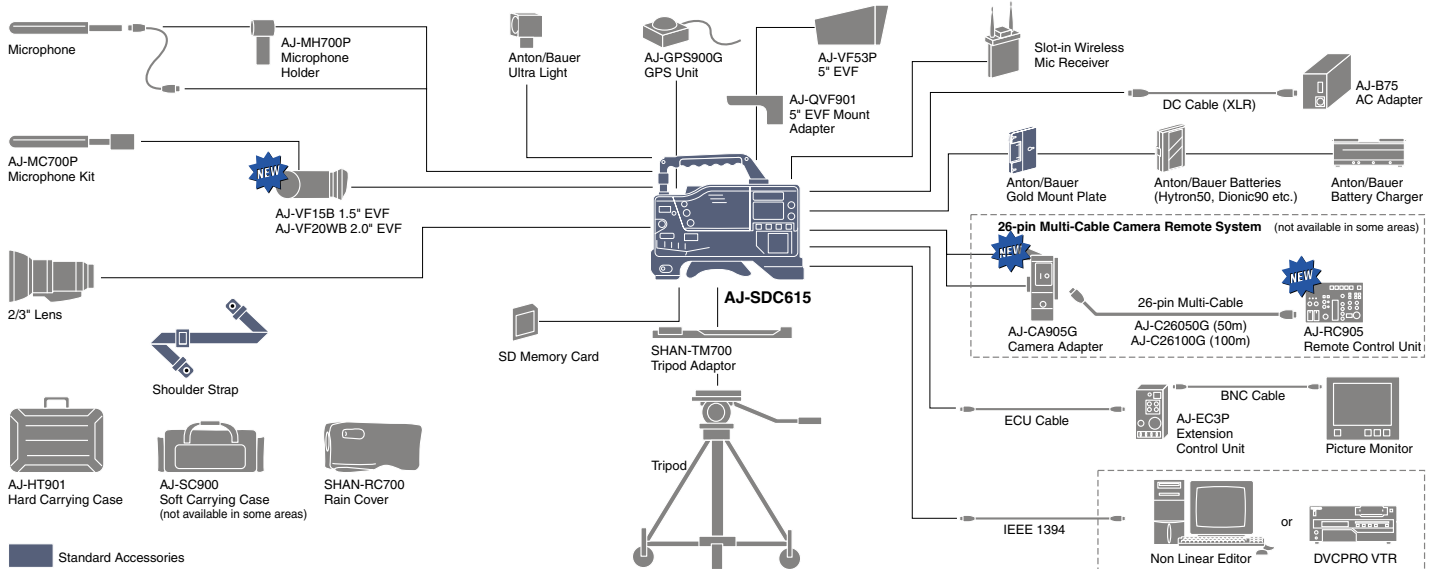
26-pin Multi-Cable Remote System

Developed specifically for DVCPRO camera recorders, this simple, easy-to-use camera remote system brings outstanding cost-performance to a wide range of applications.



* This system is not available in some areas.

S Y S T E M & O P T I O N S



S P E C I F I C A T I O N S

GENERAL		INPUT	
Power Supply:	DC 11V to 17V	Audio IN:	XLR-3 x 2 (CH1, CH2), LINE/MIC/MIC+48V switchable, LINE: 0/+4 dBu, MIC: -60/-50 dBu, MIC+48V: Phantom +48V, -60/50 dBu
Power Consumption:	24W (without VF)	MIC IN:	XLR x 1, balanced, 3 kΩ -50/-40 dBu selectable, Phantom +48V (On/Off)
Operating Humidity:	10% to 85%	Wireless IN:	25P D-sub, -40 dBu
Operating Temperature:	+32°F to +104°F (0°C to +40°C)	Genlock IN:	BNC x 1, 1.0Vp-p 75Ω
Storage Temperature:	-4°F to +140°F (-20°C to +60°C)	TC IN:	BNC x 1, 0.5 to 8.0Vp-p, high impedance
Weight:	Approx. 9 lbs (4.1 kg)	Video In:	Menu Selectable for Genlock In connection
Dimensions (W x H x D):	5-1/16" x 8-1/16" x 12-3/8" (129 x 204 x 313 mm)	OUTPUT	
Continuous Rec Time:	About 120 min. with Anton/Bauer Hytron 50	Video OUT:	BNC x 1, 1.0Vp-p 75Ω
CAMERA SECTION		Audio OUT:	XLR-5 x 1 (CH1/CH2) 0dBu/+4dBu selectable, balanced, low impedance
CCD Elements:	2/3" IT CCD (x 3)	Monitor OUT:	BNC x 1, 1.0Vp-p 75Ω
Picture Elements:	520,000 pixels	TC OUT:	BNC x 1, 2.0Vp-p, low impedance
Optical Filters:	1: 3200K, 2: 5600K+1/8ND, 3: 5600K, 4: 5600K+1/64ND	Phones:	Stereo mini jack x 2
Quantization:	12 bits	OTHERS	
Sampling Frequency:	18 MHz	DVCPRO:	6P x 1, IEEE 1394 digital interface
Programmable Gain:	-3/0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB	DC IN:	XLR-4 x 1, DC11V to 17V
Super Gain:	+30/+36/+42/+48 dB	DC OUT:	4P x 1, DC11V to 17V, 1A
Digital Super Gain:	+6/+12/+20 dB	Lens:	12P x 1
Sensitivity:	F13.0 at 2000 Lux, 89.9% reflect	ECU:	6P x 1, for AJ-EC3P
Minimum Illumination:	0.01 Lux at F1.4 (+48dB Gain +20dB DS Gain)	EVF:	20P x 1
Shutter Speed:	1/100, 1/120, 1/250, 1/500, 1/1000 and 1/2000 sec.	GPS:	6P x 1, for AJ-GPS900G
Syncro Scan Shutter:	1/60.3 to 1/249.7 sec.	*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 are subject to change without notice. These products may be subject to export regulations.	
Video S/N:	63 dB (typical)		
Horizontal Resolution:	750 TV lines at centre		
Vertical Resolution:	400 TV lines, 450 TV lines (Super V mode)		
VIDEO		REGISTRATION ERROR	
Quantization:	8 bits	Registration Error:	Less than 0.05% (whole zone, without lens distortion)
Error Correction:	Reed Solomon Product Code	OPTICAL SYSTEM	
Compression Method:	DCT and Variable-length Coding	Optical System:	F 1.4 prism system
Bit Rate:	25 Mbps	Lens Mount:	2/3" bayonet type
Band Width*:	Y: 30 Hz to 5.75 MHz, +1.0/-3dB	VTR SECTION	
S/N Ratio*:	More than 55 dB	Tape:	1/4" DVCPRO M-size cassette tape
AUDIO		Tape Speed:	33.820 mm/s
Sampling Frequency:	48kHz (sync. with video)	Max Rec Time:	66 min using AJ-P66MP
Quantization:	16 bits	FF/REW Time:	About 1.5 min. (using AJ-P66MP)
Frequency Response*:	20Hz to 20kHz, ±1.0dB (reference level)	VIDEO	
Dynamic Range*:	More than 85dB (1kHz, AWTG)	Quantization:	8 bits
Distortion*:	Within 0.1% (1kHz, reference level)	Error Correction:	Reed Solomon Product Code
Wow & Flutter*:	Below measurable limit	Compression Method:	DCT and Variable-length Coding
Head Room*:	20 dB	Bit Rate:	25 Mbps

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