Panasonic ideas for life





Outstanding Shooting Quality plus High Cost-Performance in a 2/3"



With the new AJ-SDC905, Panasonic introduces a 2/3" 600,000-pixel 3CCD DVCPRO50 camera-recorder that brings both high quality and high cost-performance to applications from news gathering and sports coverage to content production.

The AJ-SDC905's 3CCD camera system combines with a 12-bit digital signal processor to deliver a superior picture and sound quality professionals need. A host of features enhance recording quality and convenience, including a digital super gain function that boosts sensitivity and a prerecording function that helps prevent missed shooting opportunities.

This sets the AJ-SDC905 apart from any other camcorder in its league by being the first to offer DVCPRO50 over a <u>IEEE1394 interface</u>. This is a perfect compliment to the growing number of PC-based operations in the brodacast and production industry.

Wide 2/3" CCD for High Sensitivity and High Image Quality
The AJ-SDC905 features a 2/3" 600,000-pixel 3CCD imaging
system and an F13 lens with high sensitivity. You can shoot in light
as low as 0.01 lux with minimal smear. With 750 lines of resolution
and a 62-dB S/N, the AJ-SDC905 meets virtually any recording
need. It has built-in versatility with menu selectable 16:9 or 4:3
aspect ratios and a choice between DVCPRO and DVCPRO50
recording modes.

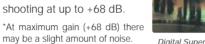
Digital Super Gain (cumulative mode)

The AJ-SDC905 features an easy-to-use, pushbutton super gain function with a maximum gain of +48 dB. In addition, digital super gain (in cumulative mode) allows an extra gain of +20 dB (at 5 fps).

Unlike conventional gain adjustment, digital super gain is virtually noise-free*, so picture quality is preserved intact.

With super gain and digital super gain, the A I-SDC905

With super gain and digital super gain, the AJ-SDC905 allows ultra-high-sensitive shooting at up to +68 dB.





igital Super Gain Image

12-Bit A/D Signal Processing Circuit

The AJ-SDC905 features a new DSP circuit that uses 12-bit rather than conventional 10-bit processing for A/D conversion. This achieves better overall picture quality, with finer gradation and improved colour expression.



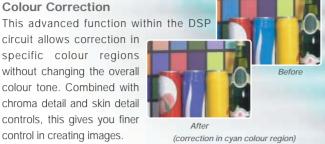


Camera-Recorder with IEEE 1394 Digital Interface



12-Axis Independent Matrix **Colour Correction**

circuit allows correction in specific colour regions without changing the overall colour tone. Combined with chroma detail and skin detail controls, this gives you finer



control in creating images. Four User Scene Files

Store specific camera settings in memory, then retrieve them when needed for guick, easy setup. Four files with settings can be stored in the camera's memory. Files can also be copied onto an SD Memory Card or MultiMediaCard, allowing storage of up to eight files.

Customized User Buttons and 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 colour even when shooting scenes with difficult lighting conditions, such as when following a subject walking from indoors to outdoors.

Digital Zoom

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

Marker Selector

Press this button when using the wide viewfinder to display the 4:3 (side clop) screen marker for easy confirmation.

Synchro-Scan Electronic Shutter

The electronic shutter has speeds of 1/60, 1/120, 1/250, 1/500 1/1000 and 1/2000 sec, plus synchro-scan capability (1/50.4 to 1/248 sec).

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.



DVCPRO50 Recorder with Outstanding Quality

DVCPRO50/DVCPRO Switchable Recording

The AJ-SDC905 can record in either the DVCPRO50 or DVCPRO format. In DVCPRO50 mode you can record 33 minutes of high-quality 4:2:2 pictures onto a compact 1/4-inch cassette tape. In DVCPRO mode the recording time is doubled*. Emphasize either picture quality or recording time, depending on your needs. Giving you both quality and versatility, this single, all-purpose unit answers the call, in applications from ENG to EFP.

*When recording in DVCPRO50 mode on a DVCPRO cassette tape, the actual recording time will be half the time indicated on the cassette label.

Two-Channel Digital Audio

The AJ-SDC905 can record full 48-kHz/16-bit digital audio on two channels. You can freely select the audio source for each channel, choosing from mic, line or wireless receiver.

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.

Interval REC

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

Time Code Recording

The built-in SMPTE time code generator/reader lets you select FREE RUN/REC RUN, or user bits. Time Code can also be superimposed onto the camera's video output during playback.

Prerecording Function

Pre-Pecordina Circuit

The prerecording function allows the AJ-SDC905 to catch sudden, spontaneous scenes you might otherwise miss. When the camera is in standby mode, this function continually caches in memory, up to 6 seconds (presettable) of the most recent video and audio material entering the camera. When you press the REC button, that material is recorded onto the tape before real-time recording begins.





Quick Response

The AJ-SDC905 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-SDC905's DVCPRO terminal complies with the IEEE 1394 digital interface standard. Use it to upload recorded materials, including DVCPRO50 data, directly to a nonlinear editor or server. The AJ-SDC905 works as both player and recorder. This makes it easy to use the AJ-SDC905 in PC-based operations.





Side Operation and LCD Panel



Front Operation



Rear Side Connectors



Rear Connectors



Low Power Consumption and Power Save Mode

The AJ-SDC905 consumes only 25 W when recording. An Anton/Bauer battery (Hytron50) provides about 120 minutes of continuous recording or playback. A power save mode with a tape protection function extends operating time even further.

Lightweight, Well Balanced Body

Use of the DVCPRO format helped us make the AJ-SDC905 body small in size and light in weight. Feedback from ENG professionals helped us give it a natural shoulder-fitting form, perfectly placed centre of gravity, good visibility to the front and sides, and properly positioned switches with ergonomic shapes. An easy slide mechanism in the shoulder pad improves operability. In standard operating condition the entire unit weighs just 5.1 kg (body 4.1 kg; approx.).

Slot-In Wireless Receiver

For even greater mobility in news gathering applications, the AJ-SDC905 can be integrated with an optional wireless receiver.

GPS Unit

Mount the optional AJ-GPS900G GPS unit, and the AJ-SDC905 can record real-time position data (latitude, longitude, and altitude) onto the tape, conforming to UMID standards.

Simple Camera Remote

Connecting the optional AJ-EC3E Extension Control Unit (ECU) allows remote camera setup and image adjustment while viewing the image on a monitor, as well as remote rec start, stop, and review.

Additional Camera Features

- One-touch camera status report
- · Built-in gen-lock function
- Phantom power supply (for 48V phantom mic)

Additional VTR Features

- · One-touch rec review function
- · Colour playback capability
- · Compatible with a variety of battery systems
- Equipped with Anton/Bauer gold mount plate
- · Built-in monitor speaker
- · Video In capability

Standard Accessories

- Shoulder strap
- Anton/Bauer gold mount plate (installed)

26-pin Multi-Cable Camera Remote System

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

Easily Detachable Camera Adaptor

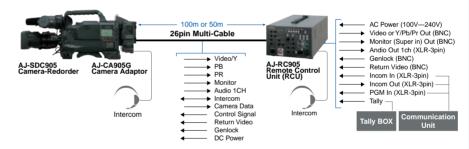
The compact, lightweight AJ-CA905G camera adaptor mounts to the rear of the DVCPRO camera recorder. It attaches and detaches quickly and easily, giving you smooth, swift switching between stand-alone and remote operation. An Anton QR Gold Mount on the adaptor's rear allows battery drive when power supply from a cable is difficult

Remote Operation from Up to 100 m

The 26-pin multi-cable comes in lengths of 50 meters and 100 meters. You can send component video signals and audio signals from the camera to a remote control unit up to 100 meters away, or send control signals from the remote unit to the camera recorder. An intercom function is also provided.

Half-Rack Size Remote Control Unit

The compact AJ-RC905 remote control unit provides the composite monitor output (video output: component signal) commonly used on monitor TVs. From the unit's front panel it's possible to adjust image-quality settings, control VTR operation, change camera recorder menu settings, and make system signal adjustments.

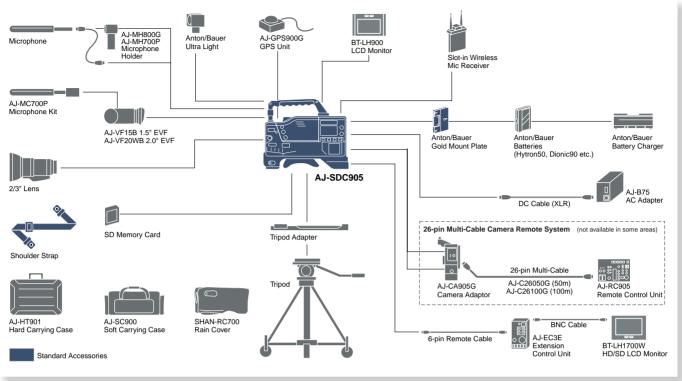




* This Remote System is not available in some areas. This Remote unit is compatible with AJ-SPX800,AJ-SPX900,AJ-SDX900, AJ-SDC905 and AJ-SDC615.

Optional Accessories







AJ-B75

AC Adaptor

BT-LH900

HD/SD LCD Monitor



16 minuttes

12 minuttes

6 minuttes

Cleaning Tape

33 minuttes

24 minuttes

12 minuttes

70 m

51 m

27 m

AJ-P33MP

AJ-P24MP

AJ-P12MP

AJ-CL12MP

	S P E C I F I
GENERAL	
Power Supply:	DC 11V to 17V
Power Consumption:	25W (without VF)
Operating Humidity:	10% to 85%
Operating Temperature:	0°C to +40°C
Storage Temperature:	-20°C to +60°C
Weight:	About 4.1 kg
Dimensions (W x H x D):	129 x 204 x 313 mm
Continuous Rec Time:	About 120 min. with Anton/Bauer Hytron 50
CAMERA SECTION	
CCD Elements:	2/3" IT CCD (x 3)
Picture Elements:	600,000 pixels
Optical Filters:	1: 3200K, 2: 5600K+1/8ND, 3: 5600K, 4: 5600K+1/64ND
Quantization:	12 bits
Sampling Frequency:	18 MHz
Programmable Gain:	-3/ 0/+3/+6/+9/+12/+15/+18/+21/+24/+27/+30 dB
Super Gain:	+30/+36/+42/+48 dB
Digital Super Gain:	+6/+12/+20 dB
Sensitivity:	F13.0 at 2000 Lux, 89.9% reflect
Minimum Illumination:	0.01 Lux at F1.4, +48 dB +20 dB Gain
Shutter Speed:	1/60, 1/120, 1/250, 1/500, 1/1000 and 1/2000 sec.
Syncro Scan Shutter:	1/50.4 to 1/248 sec.
Video S/N:	62 dB (typical)
Horizontal Resolution:	750 TV lines at centre
Vertical Resolution:	450 TV lines, 500 TV lines (Super V mode)
Registration Error:	Less than 0.05% (whole zone, without lens distortion)
Optical System:	F 1.4 prism system
Lens Mount:	2/3" bayonet type
VTR SECTION	
Tape:	1/4" DVCPRO M-size cassette tape
Tape Speed:	67.708 mm/s (DVCPRO50), 33.854 mm/s (DVCPRO)
Max Rec Time:	33 min (DVCPRO50), 66 min (DVCPRO) using AJ-P66MP
FF/REW Time:	About 1.5 min. (using AJ-P66MP)

VIDEO	
Sampling Frequency:	Y: 13.5 MHz, PB/PR: 6.75 MHz
Quantization:	8 bits
Error Correction:	Reed Solomon Product Code
Compression Method:	DCT and Variable-length Coding
Compression Ratio:	3.3:1 (DVCPRO50), 5:1 (DVCPRO)
Bit Rate:	50 Mbps (DVCPRO50), 25 Mbps (DVCPRO)
Band Width*(DVCPRO50):	Y: 25Hz to 5.75MHz, +1.0/-3dB PB/PR: 25Hz to 2.75MHz, +1.0/-3dB
S/N Ratio*:	More than 55 dB
AUDIO	
Sampling Frequency:	48kHz (sync. with video)
Quantization:	16 bits
Frequency Response*:	20Hz to 20kHz, ±1.0dB (reference level)
Dynamic Range*:	More than 85dB (1kHz, AWTD)
Distortion*:	Within 0.1% (1kHz, reference level)
Wow & Flutter*:	Below measurable limit
Head Room*:	18 dB
INPUT	
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
MIC IN:	XLR x 1, balanced, 3 k Ω –50/–40 dBu selectable, Phantom +48V (On/Off)
Wireless IN:	25P D-sub, –40 dBu
Genlock IN:	BNC x 1, 1.0Vp-p 75Ω
TC IN:	BNC x 1, 0.5 to 8.0Vp-p, high impedance
OUTPUT	
Video OUT:	BNC x 1, 1.0Vp-p 75Ω
Audio OUT:	XLR-5 x 1 (CH1/CH2, CH3/CH4 selectable) 0dBu/+4dBu selectable, balanced, low impedance
TC OUT:	BNC x 1, 2.0Vp-p, low impedance
Phones:	Stereo mini jack x 2
OTHERS	
DVCPRO:	6P x 1, IEEE 1394 digital interface
DC IN:	XLR-4 x 1, DC11V to 17V
DC OUT:	
	4P x 1, DC11V to 17V, 100 mA
Lens:	4P x 1, DC11V to 17V, 100 mA 12P x 1
Lens: ECU:	
	12P x 1

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*The specifications given above were measured by playing back tapes recorded by this unit on standard DVCPRO50 VTRs

Weight and dimensions shown are approximate.

Specifications are subject to change without notice.

These products may be subject to export regulations.

Matsushita Electric Industrial Co., Ltd. Systems Business Group

2-15 Matsuba-cho, Kadoma, Osaka 571-8503 Japan Phone +81 6 6905 4650 Fax +81 6 6908 5969

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+54 1 308 1610 +61 2 9887 6222 +43 (0)1 610 80 773 +973 252292 +32 (0)2 481 04 57 +359 2 946 0786 +86 10 6515 8828 Argentina Australia Austria Bahrain Belgium Bulgaria China (Hong Kong Czech Republic Denmark +852 2313 0888) +420 236 032 552/511 +45 43 20 08 57 +20 2 3938151 Egypt +20 2 3938151 Finland, Latvia, Lithuania, Estonia

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+965 481 2123 Kuwait +961 1 216827 +60 3 5549 5422 (PSE) +60 3 5546 7000 (PM) Lebanon Malaysia Montenegro, Serbia

+41 (0)26 466 25 20 +31 73 64 02 577 +64 9 272 0100 Netherlands New Zealand Norway Pakistan Philippines +47 67 91 78 00 +92 5370320 21 +63 2 633 6162 +48 (22)338 1100 Poland

Portugal Romania Russia & CIS +351 21 425 77 04 +40 21 211 4855 +7 095 980 42 06 +966 1 465 0709 Saudi Arabia Singapore +65 6270 0110 Slovak Republic +421 (0)2 52 92 14 23

Slovenia, Croatia, Bosnia, Macedonia +44 (0)20 76 63 36 57 +27 11 313 1400 +34 (93) 425 93 00 South Africa Spain

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Sweden

+41 (0)41 259 96 32 +66 2 731 8888 +90 216 578 3700 U.K

+90 216 578 3700 +971 4 282201 +380 44 4903437 +380 44 4903438 [ext. 112] +44 (0) 1344 70 69 20

+46 (8) 680 26 41









