# 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 camerarecorder 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 offering DVCPRO50 over a IEEE1394 interface. 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).

super gain is virtually noise-free\*, so picture quality is preserved intact. With super gain and digital super gain, the AJ-SDC905 allows ultra-high-sensitive

\*At maximum gain (+68 dB) there may be a slight amount of noise.

shooting at up to +68 dB.



#### 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.



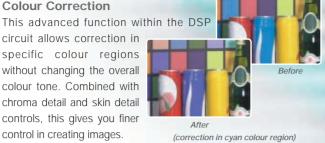


# Camera-Recorder with IEEE 1394 Digital Interface



## 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



## 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-Recordina 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.



- \* Applicable systems and formats, visit our Website:
- <a href="https://eww.pavc.panasonic.co.jp/pro-av/">https://eww.pavc.panasonic.co.jp/pro-av/</a>, "IEEE 1394 Compatibility Table".



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.

\*The optional GPS unit is not available in some areas.

#### 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**

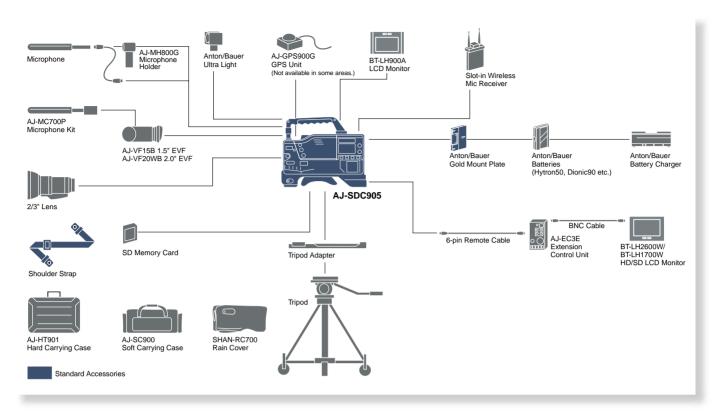
- One-touch rec review function
- · Colour playback capability
- · Compatible with a variety of battery systems
- Equipped with Anton/Bauer gold mount plate
- · Built-in monitor speaker
- · Video In capability

#### **Standard Accessories**

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

# **Optional Accessories**







2" EVF 16:9/4:3 switchable



AJ-VF15B Hight Grade 1.5" EVF for 4:3





Fujinon 2/3" Lens



AJ-MC700P Microphone Kit

AJ-MH800G Microphone Holder



DINIC 90 AntonBauer Battery Pack



AntonBauer AC Adaptor/Battery Charger



BT-LH2600W 26" HD/SD LCD Monitor



BT-LH1700W 17" HD/SD LCD Monitor

BT-LH900A





Tripod Adaptre



AJ-GPS900G

GPS Unit

\*The optional GPS unit is not available in some areas.



**SD Memory Card** 



AJ-EC3E Extension Control Unit



AJ-SC900

Soft Carrying Case (Not available in some area)



AJ-HT901

Hard Carrying Case (Not available in some area)



SHAN-RC700

Rain Cover (Not available in some area)





DVCPRO M-size Video Cassettes

DVCI INO IVI-312	e video cassettes		
Model No.	Time (DVCPRO50)	Time (DVCPRO)	Length
AJ-P66MP	33 minuttes	66 minuttes	137 m
AJ-P46MP	23 minuttes	46 minuttes	96 m
AJ-P33MP	16 minuttes	33 minuttes	70 m
AJ-P24MP	12 minuttes	24 minuttes	51 m
AJ-P12MP	6 minuttes	12 minuttes	27 m
Δ I-CI 12MP	Cleaning Tane		

	S	Р	Ε	С	1	F			
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 31	3 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: 5 4: 5600K+1/64		/8ND, 3	: 5600K	,				
Quantization:	12 bits								
Sampling Frequency:	18 MHz								
Programmable Gain:	-3/0/+3/+6/+9	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	l				
Shutter Speed:	1/60, 1/120, 1/	/250, 1/	500, 1/1	000 and	1/2000	) sec.			
Syncro Scan Shutter:	1/50.4 to 1/24	8 sec.							
Video S/N:	62 dB (typical)								
Horizontal Resolution:	750 TV lines at	t centre							
Vertical Resolution:	450 TV lines,	500 TV I	ines (Su	iper V m	ode)				
Registration Error:	Less than 0.05 (whole zone, w		ens dist	ortion)					
Optical System:	F 1.4 prism sy	stem							
Lens Mount:	2/3" bayonet t	ype							
VTR SECTION									
Tape:	1/4" DVCPRO	M-size	cassette	e 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-P66ľ	MP)					

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 kΩ -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				
ОИТРИТ					
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:	12P x 1				
ECU:	6P x 1, for AJ-EC3E				
EVF:	20P x 1				
GPS:	6P x 1, for AJ-GPS900G (Not available in some areas.)				

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Factories of Systems Business Group have received ISO14001:2004-the Environmental Management



<sup>\*</sup>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.