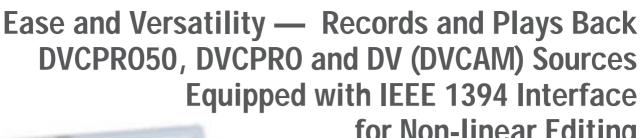
Panasonic ideas for life











Outstanding DVCPR050 Image and Sound Quality

The AJ-SD93's 4:2:2 digital component video recording and 48-kHz, 16-bit, 4-channel digital audio deliver the high image and sound quality needed in TV programme production. When extended recording time is desired, you can switch the AJ-SD93 to DVCPRO.*

- *Records two audio channels in DVCPRO format.
- *It does not support cue recording or playback.

DV Playback

For added versatility, the AJ-SD93 can play back DV and DVCAM tapes. Standard DV tapes can be played without an adapter, while Mini-DV tapes can be played using the AJ-CS455P adapter.*

*Even with an adapter, DVCPRO VTRs cannot play Mini-DV cassette tapes recorded in LP mode, nor 80- or 120-minute Mini-DV cassette tapes.

Equipped with IEEE-1394 Terminal

The AJ-SD93's 6-pin IEEE-1394 DVCPRO/DV terminal makes it easy to transfer data to and from DV equipment or Mac or PC-based non-linear editing systems. Supporting a 50-Mbps bit rate and allowing transfer of DVCPRO50 data as well as DVCPRO and DV(DVCAM) data, the AJ-SD93 is perfect for building a low-cost editing system that delivers 4:2:2 image quality.

*Recording DV signal via IEEE 1394 terminal is impossible. Also requires an IEEE 1394-compatible Mac or PC and software. DVCPR050 data can be used only by systems compatible with 50-Mbps DV data.

New Joystick Design

The joystick has been redesigned to offer easy, comfortable Slow and Shuttle Search operation. For added convenience, the stick can also be used to select menu items and set the time code.



PF (Programmable Function) Buttons

You can assign functions from the setup menu to each of the three PF buttons provided. This customizing feature gives you quick, direct access to the operational functions you use most.



Small, Lightweight and Easy to Carry

Measuring only 214 mm wide, the AJ-SD93 is virtually the same size as a 3U-tall waveform monitor, making it a space-saver in varieties of tight places. Its light 6.8 kg weight and convenient handle make it easy to carry.

Monitor Out terminal

The AJ-SD93 comes equipped with a video monitor out terminal (PAL/BNC) with Superimpose On/Off capability and two audio out terminals (PHONO). These let you connect the AJ-SD93 to an ordinary TV monitor for viewing.

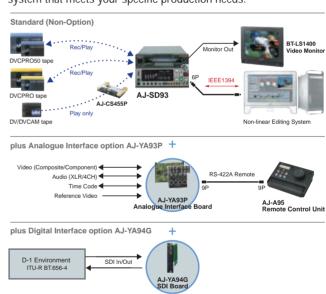
UMID* Data Recording and Playback

The AJ-SD93 records and plays data that conforms to the UMID standard and contains a variety of supplementary information. This allows it to read GPS data (latitude, longitude and altitude) recorded by the DVCPRO50/DVCPRO Camera-Recorders**. The AJ-SD93 can also handle VANC data for Teletext.

- *UMID stands for Unique Material Identifiers, which are defined for AV material use in the SMPTE 330M international standard.
- **AJ-SDX900, AJ-SDC905 or AJ-SDC615

Interface Options Add Versatility

In addition to a DVCPRO/DV terminal (IEEE 1394) and a monitor out terminal for non-linear editing and playback, you can also add optional interfaces to meet other needs. The optional AJ-YA93P analogue interface gives you analogue input/output, RS-422 remote and TC terminals. The optional AJ-YA94G SDI board adds serial digital input/output terminals. The AJ-SD93's low cost optional interfaces provide you an affordable way to configure a system that meets your specific production needs.







AJ-YA93P Analogue Interface Board



AJ-YA94G Serial Digital Interface Board



AJ-A95 Remote Control Unit (RS-422A)



AJ-CS455P Mini-DV Cassette Adapter

	S P E	CIF	I C A T I	O N S		
General Specification		Video Input Signal		Audio Input Signal		
Power Source:	AC100 to 240 V ±10%, 50/60 Hz	Analogue Component:	BNC x 3 (Y/P _B /P _R) (VIDEO IN)	Analogue:	XLR x 4 (CH1/2/3/4)	
Power Consumption:	52 W	(option *1)	Y: 1.0 Vp-p	(option *1)	600 Ω/high-impedance switchable,	
Operating Temperature	e: 5°C to 40°C	•	P _B /P _R : 0.7 Vp-p, 75 Ω, (100% colour bar)	CDI (antion *2)	+4/0/–20 dBu switchable BNC x 1, ITU-R BT.656-4 standard	
Operating Humidity:	10 % to 80 % (no condensation)	- Analogue Composite:	BNC x 1.	SDI (option *2):	BNC X 1, 11U-R B1.050-4 Standard	
Weight:	6.8 kg	(option *1)	VIDEO:1.0 Vp-p (75 Ω)	Audio Output Signal		
Dimensions (WxHxD):	214 x 132 x 434 mm (without shoes and connectors)	Reference: (option *1)	BNC x 2 (loop-through), analogue composite,	Analogue: (option*1)	XLR x 4 (CH1/2/3/4) low-impedance,	
Recording Format:	DVCPRO50/DVCPRO switchable		75 Ω ON/OFF auto switching		+4/0/–20 dBu switchable	
Video Format:	6251	SDI (option *2):	BNC x 1, ITU-R BT.656-4 standard	SDI (option *2):	BNC x 1, ITU-R BT.656-4 standard	
Recording Audio Signa	al: DVCPRO50: 48 kHz, 16 bit, 4 CH	Video Output Signal		Monitor:	PHONO x 2, 600Ω, -8 dBV	
Recording Track:	DVCPRO: 48 kHz, 16 bit, 2 CH Digital Video/Audio: Helical track TC: Sub-code area	Analogue Component: (option *1)	(switchable for composite output)	Headphones:	M3, stereo, 8 Ω, variable level control	
	CTL: 1 longitudinal track	-	Y: 1.0 Vp-p Pв/Pr: 0.7 Vp-p, 75 Ω	Other Input and Output	ut Signal	
Tape Speed:	67.708 mm/ sec. (DVCPRO50)	-	(100% colour bar)	DVCPRO/DV In/Out:	6 pin x 1	
Max. Rec/Play Time:	92 minutes in DVCPRO50 (with AJ-5P92LP cassette)	Analogue Composite: (option *1)	BNC x 2, VIDEO1, VIDEO2		IEEE 1394 Digital Interface, 400/200/100 Mbps switchable IEEE1394-1995, IEC61883-Part1/Part2.	
Tape:	Metal Particle	SDI (option *2):	BNC x 1, ITU-R BT.656-4 standard			
FF/REW Time:	Less than 3 minutes (with AJ-5P92LP cassette)	Monitor:	BNC x 1, analogue composite	SMPTE396M, AV/C Digital Interface Command		
Digital Slow:	-0.43 to +0.43 times normal speed (DVCPRO50/DVCPRO)	Video Adjustment Range		TC In (option*1):	BNC x 1, 0.5 to 8.0 Vp-p, 10 kΩ	
Tape Timer Accuracy:	±1 frame (continuous CTL)	Output Video Gain:	±3 dB	TC Out (option*1):	BNC x 1,	
	, , , , , , , , , , , , , , , , , , , ,	Output Chroma Gain:	±3 dB	Domoto In/Out	low-impedance , 2.0 ±0.5 V D-sub 9 pin	
Video Specification		Output Chroma Phase		Remote In/Out: (option*1)	RS-422A I/F	
Sampling Frequency:	Y:13.5 MHz, PB/PR:6.75 MHz (DVCPRO50)	Output Black Level:	±100 mV	(/		
		Output Sync Phase:	±15 µsec	option*1: AJ-YA93P Analogue Interface Board option*2: AJ-YA94G SDI Board		
Quantizing:	8 bits	Output SC Phase:	±180°			
Compression Format:	DV-based compression (SMTPE314M)	Audio Specification		Weight and dimensions shown are approximate. Specifications are subject to change without notice. These products may be subject to export regulations. *DVCAM is a registered trademark of Sony Corp,		
Compression Ratio:	3.3:1 (DVCPRO50)	Sampling Frequency:	48 kHz (sync. with video)			
	5:1 (DVCPRO)	Quantization:	16 bits			
Error Correction:	Reed-Solomon product code	Frequency Response:	20 Hz to 20 kHz, ±1.0dB			
Bit Rate:	50 Mbps (DVCPRO50) 25 Mbps (DVCPRO)	Dynamic Range:	(reference level) More than 85 dB			
[Digital Input /Analogu	le Component Output]		(1kHz, emphasis off, "A" weighted)			
(option *1*2)	Y: 25 Hz to 5.5 MHz (±1 dB) 5.75 MHz (-2 dB) PB/PR: 25 Hz to 2.5 MHz (±1 dB) 2.75 MHz (-2 dB)	Distortion:	within 0.1% (1kHz, emphasis off, reference level)			
		Cross Talk:	less than -80 dB (1kHz, between any 2 channels)			
S/N Ratio:	58 dB or more (Y)	Wow & Flutter:	Below measurable limit			

18 dB

T1=50µsec, T2=15µsec ON/OFF automatically switching

1 % or less (Y 2T)

10 nsec or less

Matsushita Electric Industrial Co., Ltd. Systems Business Group 2-15 Matsuba-cho, Kadoma, Osaka 571-8503

K Factor:

Y/PB, PR Delay:

Japan

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