





A High-End SD VTR with Colour LCD



A Full 2 Hours of Recording onto an XL Cassette

The AJ-SD965 now records up to 2 full hours of stunning DVCPR050 images on to the new XL cassettes. This translates into 4 hours in DVCPRO mode. Ideal for event recording, program production, and on-air transmission. Naturally, it accepts three cassette sizes in all: XL. L. and M.

Tiltable Front Panel with LCD Monitor

The new front panel on the AJ-SD965 contains a high-resolution LCD monitor and Programmable Function (PF) buttons. The LCD monitor makes it easy to check output or input images, and to set functions using the on-screen menu. The tiltable panel lets you adjust the angle of the monitor for optimal viewing and operation.



DV/DVCAM Playback

For added versatility, the AJ-SD965 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.*

Programmable Function Buttons

You can assign functions from the setup menu to each of the four Programmable Function (PF) buttons provided.

This customizing feature gives you quick, direct access to the operational functions you use most.

*It is not possible to record onto a Mini-DV cassette with an adapter. Also, DVCPRO VTRs cannot play Mini-DV cassette tapes recorded in LP mode, nor 80-or 120-minute Mini-DV cassette tapes, even with an adapter.



Monitor That Records Up to 2 Hours



DVCPR050/DVCPR0 Switchable

The AJ-SD965 records and plays back in both DVCPR050 and DVCPR0 formats. In playback, the AJ-SD965 automatically detects the recording format used and plays the tape back accordingly. In DVCPR050 mode, the AJ-SD965'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 program production. When extended recording time is desired, you can switch the AJ-SD965 to DVCPR0 mode with 2-channel digital audio.

625/525 Selectable

The 625/525 selectable function in the AJ-SD965 lets you play and use NTSC footage in program production. Use the standard-equipped SDI or optional AJ-YA931G 525 analogue input board for 525 input, and the standard-equipped SDI and analogue out for output.

High-Precision ±0 Frame Linear Editing

With a second VTR as a source machine, you can do 1-event assemble, insert, and audio-split editing using the AJ-SD965's preview, review, preroll, and trim keys. Intraframe compression in both DVCPR050 and DVCPRO modes allows high-precision, high-quality, frame-by-frame tape editing. Metal Particle tapes with an 18-micron track width provide professional-level accuracy and durability.

Jog & Shuttle Dial

In shuttle mode, you can search in colour at ± 32 times normal speed. Slow-motion playback is provided at -0.43 to +0.43, +0.5, or +0.75 times normal speed in DVCPRO50 and DVCPRO modes. Digital audio monitoring is possible in jog mode.

Standard SDI and AES/EBU In/Out

The AJ-SD965 comes standard with SDI (Serial Digital Interface), allowing input and output of digital component signals. AES/EBU digital audio in/out (4 channels) is also standard. This versatility makes it ideal for high-end post-production applications.

Analogue Input/Output

The AJ-SD965 is equipped with composite and component output signals as a standard feature. Four channels of analogue audio in and out are also part of the standard configuration. Analogue video input is available by adding an optional AJ-YA932G (625) or AJ-YA931G (525) board. This efficient design provides all the versatility needed in today's video production environment.

*The 625 and 525 boards are selectable. Both boards cannot be mounted at the same time.

IEEE 1394 Interface

The AJ-SD965 option slot allows system expansion. Connecting an AJ-YAD955G IEEE 1394 Digital Interface Board gives you degradation-free transfer of compressed data, which provides a full 4:2:2 compressed signal for use in PC and Macintosh based editing systems.*

*DV data input is not possible in 625 (PAL) mode.

Other Features and Specifications

- Versatile remote interfaces: RS-422A (9-pin), RS-232C (25-pin), Encoder (15-pin) and Parallel (25-pin).
- Weighs 17.5 kg and mounts in a 4U-size, 19" rack (with separately sold adaptor).
- Low power consumption of 130 watts maximum (with all options).
- UMID* data compatible. Enables readout of GPS data (latitude, longitude, and altitude) that was input during recording.

*UMID (Unique Material Identifiers): These AV material identifiers are defined in the SMPTE 330M international standard.



	S P E	CIF		I C	А	1 1	0 1	I S			
General		Video Input					Audio Outp	out			
Power Supply:	AC100 to 240V ±10%, 50 to 60 Hz			BNC x 3 (Y/PB/PR), Y: 1.0Vp-p, 75Ω PB/PR: 0.7Vp-p, 75Ω (100% Colour bar)			Analogue (CH1/2/3/4): XLR x 4, Low-impedance, +4/0/–20 dBu switchable Digital (CH1/2, CH3/4): BNC x 2, AES/EBU				
Power Consumption:	115W 130W (full option)	(option)	PE								
Operating Temperature	: 5°C to 40°C	Analogue Composit							1.0±0	2Vp-p, 75Ω	
Operating Humidity:	10% to 80% (non dew)	Analogue Composit (option)		Ω On/Off, Vid		ρ(75Ω)	SDI:			3, 75Ω E272M-A/ITU-R BT.656-4	
Weight:	17.5 kg 424 x 175.2 x 417 mm	Reference:		Analogue Composite BNC x 2 (loop-through) 75Ω On/			Monitor:			2, Low-impedance, 20 dBu switchable	
Recording Format:	DVCPRO50/DVCPRO switchable	SDI:		BNC x 2 (active through),			Phones:			ariable level control, 8Ω	
Video Format:	625i/525i switchable			SMPTE259M-C/ITU-R BT.656-4			1 1101100.		1110, 11	anable lover control, car	
		SDTI(option):	BN	NC x 1			Others				
	t:48kHz, 16 bit 4CH (DVCPRO50) 48kHz, 16 bit 2CH (DVCPRO)	Video Output	anti DA	PNC v 2 (V/DD/DD)			DVCPRO/DV IN/OUT (option)		6 pin x 1, Digital Video Interface IEEE1394-1995 IEC61883-PART1/PART2		
Recording Track:	Digital Video/Audio: Helical track TC: Subcode area Cue: 1 longitudinal track	Analogue Compone		:: BNC x 3 (Y/PB/PR), Y: 1.0Vp-p, 75Ω PB/PR: 0.7Vp-p, 75Ω		TO IN					
						TC IN:			1, 0.5 to 8.0 Vp-p, 10KΩ		
Tape Speed:	CTL: 1 longitudinal track 625i: 67.708mm/s (DVCPRO50)	Analogue Composit		00% Colour b NC x 3	ar)		TC OUT:		XLR x low-in	1 npedance, 2.0 ±0.5 Vp-p	
	525i: 67.640mm/s (DVCPRO50)		Vic	Video1/Video2:		RS-422A I	N:	D-sub	9 pin		
Tape:	Metal Particle		Vio	Video/WFM switchable Video 3: Superimpose on/off			RS-422A (DUT:	D-sub	9 pin	
Rec/Play Time:	Max. 126 minutes (*Based on AJ-5P126XG cassette)	SDI:	BN	BNC x 3, SMPTE259M-C/ITU-R BT.656-4 SDI1, SDI2, SDI3 (superimpose on/off)		RS-232C:		D-sub	25 pin		
						Parallel IN	OUT:	D-sub	25 pin		
FF/REW Time:	Less than 3 minutes (*Based on AJ-5P92LP cassette)	SDTI(option):		NC x 2	s (superim	pose on/on)	Encoder R	emote:	D-sub	15 pin	
Search Speed:	±50x	Audio						ifications	ntional /	analogue Innut Poord	
Digital Slowmotion:	-0.43x to +0.43x, +0.5x, +0.75x (DVCPRO50,DVCPRO)		Sampling Frequency: 48kHz (sync. with video)					with the AJ-YA931G Optional Analogue Input Board [Analogue Component In/Component Out]			
Editing Accuracy:	±0 frame (TC)	Quantization:		bits						· -	
	±1 frame (continuous CTL)	Frequency Respons			±1 0dB		Bandwidth	:	Y:	30Hz to 5.5MHz (±1.0dB) 5.75MHz –2.0dB	
Servo Lock Time:	Within 0.5 sec	r requericy respons		(reference level)				PB/PR: 30Hz to 2.5MHz (±1.0dB) 2.75MHz (-2.0dB)			
——————————————————————————————————————	(colour framing/standby ON)	Dynamic Range:		ore than 90dB kHz, emphasi		veighted)	S/N Ratio:		55 dB	or more	
Video		Distortion:		thin 0.05%			K Factor :		1% or	less (Y 2T)	
Sampling Frequency:	Y: 13.5MHz, PB/PR: 6.75MHz (DVCPRO50)		(11	kHz, emphasi		rence level)	Y/C Delay:		20 nse	ec or less	
Quantization:	8 bits	Cross Talk:		ss than –80dl kHz, between			[Δηαίοσιμο	Composite	site In/Composite Out]		
	DV-Based Compression (SMPTE 314M)	Wow & Flutter:	Be	Below measurable limit			Bandwidth:		Y: 30Hz to 4.5MHz (±1.0dB		
,		Headroom:	18	dB			Danawian		5.5MHz (–3.0dB)		
Compression Ratio:	3.3:1 (DVCPRO50), 5:1 (DVCPRO)	De-Emphasis:		=50µsec, T2=	=15µsec		Y/C Delay:		20 ns	ec or less	
Error Correction:	Reed-solomon product code	· 	10	N/OFF (Auton	natically sv	witching)	LCD Monito	or			
Bit Rate:	50 Mbps (DVCPRO50) 25 Mbps (DVCPRO)	Cue Track:	30	0Hz to 6kHz,	±3dB (DV	CPRO50)	Monitor:	JI	3.5"		
	omponent Out] (standard)	Audio Input					*I CD monit	ors are man	ufacture	d to an extremely high level of	
625i Bandwidth:	Y: 25Hz to 5.75MHz (±1.0dB) PB/PR: 25Hz to 2.75MHz (±1.0dB)	Analogue(CH1/2/3/4): XLR x 4, +4/0/–20 dBu switchable, 600Ω/high-impedance switchable					*LCD monitors are manufactured to an extremely high level of precision, but in parts of the screen there may be some pixels that do not display and some that remain on continuously. Please not that this is not a malfunction and that these pixels will not be				
 525i Bandwidth:	Y: 30Hz to 5.75MHz (±0.5dB)	Digital(CH1/2, CH3/	Digital(CH1/2, CH3/4): BNC x 2, AES/EBU					recorded onto the tape.			
	PB/PR: 30Hz to 2.75MHz (±0.5dB)	SDI:		NC x 2, (active			Weight and dimensions shown are approximate. Specifications are subject to change without notice. These products may be subject to export regulations.				
S/N Ratio:	60dB or more (Y)					-	rnese prod	ucts may be	subject	to export regulations.	

*DVCAM is a registered trademark of Sony Corp,

1% or less (Y 2T)

10 nsec or less

Matsushita Electric Industrial Co., Ltd. Systems Business Group

K Factor:

Y/PB, PR Delay:

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