

Panasonic

AJ-SD755
DVCPRO Studio Editing VTR
(PAL:625)



IEEE1394, SDI and SDTI Capability

DV Format Recording and Playback

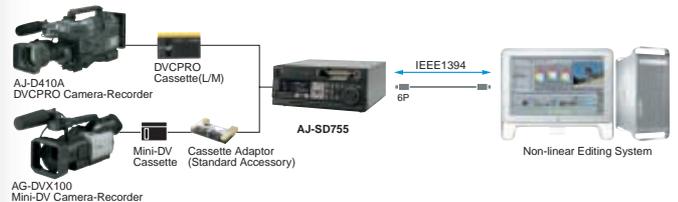
Editing Functions with Jog & Shuttle Dial

DVCPRO

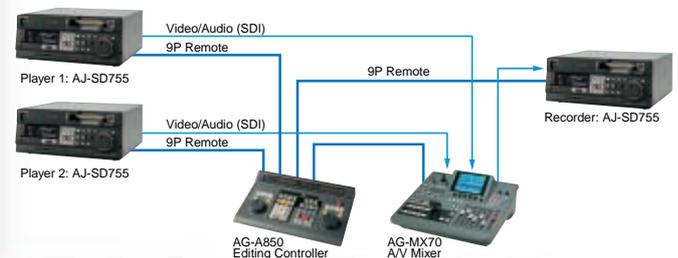
Versatile DVCPRO/DV Studio VTR with Optional IEEE 1394 Interface

The AJ-SD755 is a high cost-performance ratio solution to today's broadcasting and editing needs. This new DVCPRO VTR plays back DV and DVCAM tapes and is equipped with a variety of broadcast interfaces and functions for linear editing. Add an optional IEEE 1394 interface, and the AJ-SD755 handles PC-based and Macintosh-based nonlinear editing as well. It also records and plays UMID data.

IEEE1394 Interface



Serial Digital Interface



DV Format Recording and Playback

The AJ-SD755 DVCPRO VTR offers DV-Format recording.

The AJ-SD755 also plays back mini-DV camcorder tapes utilizing the supplied standard accessory, the AJ-CS455 cassette adaptor.

Recording and playback are possible on both Standard and mini-DV cassettes for extended time applications. In both recording and playback, a cassette detection function automatically selects the proper mode for the type of cassette loaded.

*The AJ-SD755 cannot playback DV cassette tapes recorded in LP mode, or extended-time Mini-DV cassette tapes (80 minutes in SP mode, 120 minutes in LP mode), even with the cassette adaptor.

Outstanding Picture and Sound Quality

The AJ-SD755's digital component recording assures superb pictures, with a video Y bandwidth of 5.5 MHz and video S/N ratio of 60 dB in digital domain. For audio that surpasses CD quality, it features two 16-bit digital audio channels with 48-kHz sampling.

There's also one analogue cue track. Using the optional digital interface, both picture and audio quality remain high even after editing and repeated dubbing.

184 Minutes Recording/Playback

The AJ-SD755 can use the AJ-5P92LP DVCPRO tape to provide up to 184 minutes of continuous recording and playback, permitting the recording of extended programming onto a single tape cassette for added convenience in production and transmission. For field recording, 66-minute M cassettes can also be utilized without the need for an adaptor.

Illuminated Jog & Shuttle Dial

The ring of the Jog & Shuttle dial lights up in search mode. This, plus the large LCD metering window, gives you easy, precise operation. In shuttle mode, you can search in colour at ± 32 times normal speed. Slow-motion playback is provided at -0.43 to $+0.43$, $+0.5$, $+0.75$ times normal speed in DVCPRO. Digital audio monitoring is possible in jog mode.

Complete Editing Functions

The AJ-SD755 features an edit control panel and provides functions such as assemble editing, insert editing, preview, review, and trim. Single-event editing and audio split are also possible, using the RS-422A control interface and a standard editing controller.

*Editing cannot be done in the DV record mode.

UMID Data Recording and Playback

The AJ-SD755 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 AJ-SDX900 Camera-Recorder. The AJ-SD755 can also handle VANC data for broadcast such as Teletext.

Full Digital Interfaces

- IEEE1394: Input/output of IEEE1394 (FireWire) is possible* with the optional AJ-YAD755G board. Ideal for making inexpensive copies for clients or for uploading/downloading of digital video with a Windows or Macintosh PC.
- SDI In/Out: Serial digital interface (video/audio, ITU-R BT.656-4) in/out capability with the optional AJ-YA755G board.
- Digital Audio: Equipped with AES/EBU digital audio in/out (BNC connector)
- SDTI is available by adding the optional AJ-YAC930G board, which then allows input/output of SDTI.

*DVCPRO/DV conversion function through IEEE1394 interface is not allowed.

Digital In/Out Signal Adjustment

Users can adjust audio recording levels for both analogue and digital inputs (AES/EBU, SDI). For convenience, a user can adjust each channel while watching the level meter display. Adjusting the output images from a third party remote signal controller such as Vue-Tech, Buf Technologies or DNF Controls is done the same way for digital output (SDI) as for analogue signals.

The AJ-SD755 greatly improves ease of use with digital interfaces.

Light Weight, Low Power Consumption

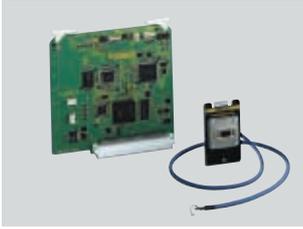
With a compact 4U rack height and a weight of only about 15 kg, the AJ-SD755 mounts easily in a 19-inch rack using the optional AJ-MA75P* rack mount adaptor. Its low power consumption (110 W) is an advantage in both the studio and an OB van.

*Slide rail not included

Outstanding System Versatility

- Analogue In/Out: Component/composite video and analogue audio, allowing direct connection to existing analogue systems
- RS-422A (9-pin): For interfacing with a system that includes an editing controller.
- RS-232C (25-pin): For PC applications.
- Encoder (15-pin): For remote adjustment of the video signal.
- Parallel (25-pin): For general-purpose remote control.
- The On-Screen Menu Display permits a user to easily change many initial settings .
- World-wide Voltage support (AC100 to 240V $\pm 10\%$, 50 to 60Hz).





AJ-YAD755G
IEEE1394 Interface Board



AJ-YA755G
SDI Board



AJ-YAC930G
SDTI Board



AJ-MA75P
Rack Mount Asaptor
(slide rail, not included)

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

[General]

Power Requirement:	AC 100 V to 240 V ±10 %, 50 to 60 Hz
Power Consumption:	110 W
Operating Temperature:	5 °C to 40 °C (non dew)
Operating Humidity:	10 % to 80 %
Weight:	15.0 kg
Dimensions (WxHxD):	424 x 175.2 x 430 mm
Recording Format:	DVCPRO/DV
Recording Video Signal:	625i
Recording Audio Signal:	48 KHz 16 bits 2 CH (DVCPRO)
Recording Track:	Digital Video, Digital Audio; Helical Track TC: Sub code area Cue: 1 track CTL: 1 Track
Tape Speed:	33.854 mm/sec.
Recording/Playback Time:	Max. 184 min. (AJ-5P92LP) Max. 66 min. (AJ-P66MP)
Tape:	Metal Particle
FF/REW Time:	Less than 3 min. (with AJ-5P92LP) Less than 2 min. (with AJ-P66MP)
Digital Slow Motion:	-0.43 to +0.43 +0.5 +0.75 (DVCPRO)
Editing Accuracy:	±0 frame (TC)
Tape Timer Accuracy:	±1 frame (CTL)
Servo Lock Time:	Less than 0.5 sec. (colour framing/standby ON)

[Video]

Sampling Frequency:	Y: 13.5 MHz, PB/PR: 3.375 MHz (DVCPRO)
Quantization:	8 bits
Compression Method:	DV-Based Compression (SMPTE314M)
Compression Ratio:	1/5 (DVCPRO)
Error Correction:	Reed Solomonn Product Code
Bit Rate:	25 Mbps (DVCPRO)
[Digital In (Option)/Analogue Component Out]	
Bandwidth:	Y: 25 Hz to 5.75 MHz (±0.5 dB) PB/PR: 25 Hz to 1.3 MHz (±0.5 dB) 1.5 MHz (-5 dB)
S/N:	60 dB or more (Y)
K Factor:	1% or less (Y 2T)
[Analogue Component In/Analogue Component Out]	
Bandwidth:	Y: 25 Hz to 5.5 MHz (±1.0 dB), 5.75 MHz (-2.0 dB) PB/PR: 25 Hz to 1.3 MHz (±1.0 dB) 1.5 MHz (-5 dB)
S/N:	55 dB or more
K Factor:	1% or less (Y 2T)
Y/PB, PR Delay:	20 nsec or less
[Analogue Composite In/Analogue Composite Out]	
Bandwidth:	Y: 25 Hz to 4.5 MHz (±1.0 dB), 5.75 MHz (-3.0 dB)
Y/C Delay:	20 nsec or less

[Processor adjustment range (Video Out)]

Video Gain:	±3 dB
Chroma Gain:	±3 dB
HUE:	±30 °
Black Level:	±100 mV
Sync phase:	±15 μ sec.
SC phase:	±180 °
[Audio]	
Sampling Frequency:	48 kHz (sync. With video)
Quantization:	16 bits
Frequency Response:	20 Hz to 20 kHz ± 1.0 dB (reference level)
Dynamic Range:	More than 90 dB (1 kHz, emphasis off, "A" weighted)
Distortion:	within 0.05 % (1 kHz, emphasis off, reference level)
Cross Talk:	Less than -80 dB (1 kHz, between 2channels)
Wow & Flutter:	Below measurable limit
Headroom:	18 dB
De-Emphasis:	T1 = 50 μsec, T2 = 15 μsec (ON/OFF Auto)
Cue Track:	300Hz to 6kHz, +3/-5dB
[Video Input]	
Analogue Component:	BNC x 3 (Y,PB,PR) Y: 1.0Vp-p, 75 Ω PB/PR: 0.7Vp-p, 75 Ω (100% colour bar)
Analogue Composite:	BNC x 2, loop-through, 75 Ω On/Off Video: 1.0Vp-p, 75 Ω
Reference:	BNC x 2, loop-through, 75 Ω On/Off
SDI (option):	BNC x 2, Active-through ITU-R BT.656-4
SDTI (option):	BNC x 2, Active-through SMPTE 305M/321M
[Video Output]	
Analogue Component:	BNC x 3 (Y,PB,PR) Y: 1.0Vp-p 75 Ω PB/PR: 0.7 Vp-p, 75 Ω (100% colour bar)
Analogue Composite:	BNC x 3 Video1/Video2: Video/WFM switchable Video3: Super On/Off
SDI (option):	BNC x 3 ITU-R BT.656-4 SDI1, SDI2, SDI3: Super On/Off
SDTI (option):	BNC x 1 SMPTE 305M/321M

[Audio Input]

Analogue:	XLR x 2, 600 Ω/high-impedance switchable +4/0/-20 dBu
Digital:	BNC x 1, AES/EBU
SDI (option):	BNC, 75 Ω, ITU-R BT.656-4
[Audio Output]	
Analogue (CH1/CH2):	XLR x 2, low-impedance +4/0/-20 dBu switchable
Digital (CH1/CH2):	BNC x 1 AES/EBU, 1.0 ±0.2 Vp-p, 75 Ω
SDI (option):	BNC, 75 Ω ITU-R BT.656-4
Monitor:	XLR x 2, low-impedance +4/0/-20 dBu switchable
Headphone:	M3, variable level control, 8 Ω
[Others]	
IEEE1394 (option):	6pin x 1, IEEE1394-1995
Time Code Input:	XLR x 1, 0.5 to 8 Vp-p, 10 kΩ
Time Code Output:	XLR x 1, 2.0 ±0.5 Vp-p low-impedance
RS-422A Input:	D-sub 9 pin RS-422A I/F
RS-422A Output:	D-sub 9 pin RS-422A I/F
RS-232C:	D-sub 25 pin RS-232C I/F
Parallel IN/OUT:	D-sub 25 pin
Encoder Remote In:	D-sub 15 pin

Weight and dimensions shown are approximate.
Features and specifications are subject to change without notice.
These products may be subject to export regulations.

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