

Panasonic
ideas for life

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



IEEE 1394 and SDI Capability

DV Format Recording and Playback

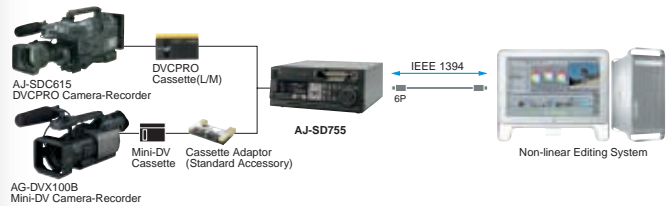
Editing Functions with Jog & Shuttle Dial

DVCPR

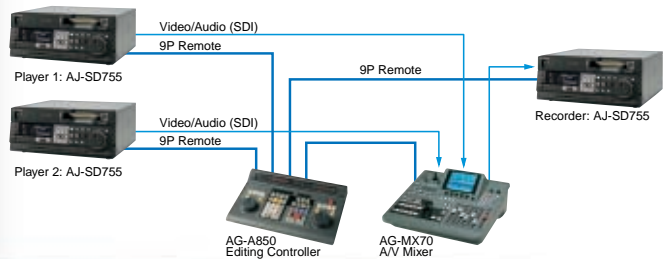
Versatile DVCPRO/DV Studio VTR with Optional IEEE 1394 Interface

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.

IEEE 1394 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 adapter. 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.

126 Minutes Recording/Playback

The AJ-SD755 can use the AJ-P126LP DVCPRO tape to provide up to 126 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 DVCPRO Camera-Recorder*. The AJ-SD755 can also handle VANC data for broadcast such as Teletext.

*AJ-SDC615 (with GPS option); The GPS unit is not available in some areas.

Full Digital Interfaces

- IEEE 1394: Input/output of IEEE 1394 (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)

*DVCPRO/DV conversion function through IEEE 1394 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

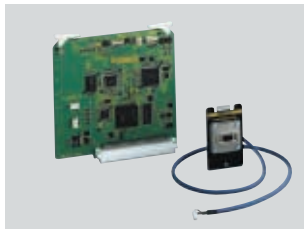
With a compact 4U rack height and a weight of only about 15 kg, the AJ-SD755 mounts easily in a 19-inch rack using the optional AJ-MA75P* rack mount adaptor. Its low power consumption (110 W) is an advantage in both the studio and an OB van.

*Slide rail not included

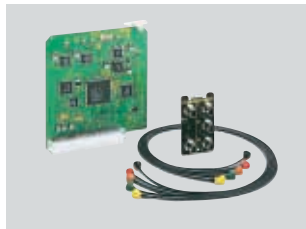
Outstanding System Versatility

- 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
IEEE 1394 Interface Board



AJ-YA755G
SDI Board



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



BT-LH2600W
26" HD/SD LCD Monitor
BT-LH1700W
17" HD/SD LCD Monitor

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. 126 min. (AJ-P126LP) Max. 66 min. (AJ-P66MP)
Tape:	Metal Particle
FF/REW Time:	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 (SMPT314M)
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

[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 SD1, SD2, SD3: Super On/Off
---------------	---

[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]

IEEE 1394 (option):	6pin x 1, IEEE 1394-1995
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.

Macintosh, Firewire and Windows are copyright of their respective owners.

Panasonic®

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
<https://feww.pavc.panasonic.co.jp/pro-av/>

[Countries and Regions]

Argentina	+54 1 308 1610
Australia	+61 2 9887 6222
Austria	+43 (0) 1 610 80 773
Bahrain	+973 252292
Belgium	+32 (0) 2 481 04 57
Bulgaria	+359 2 946 0786
China	+86 10 6515 8828
(Hong Kong)	+852 2313 0888
Czech Republic	+420 236 032 552/511
Denmark	+45 43 20 08 57
Egypt	+20 2 3938151
Finland, Latvia, Lithuania, Estonia	+358 (9)521 52 53
France	+33 (0)1 55 93 66 67
Germany	+49 (0)611 235 401
Greece	+30 210 96 92 300
Hungary	+36 (1)382 60 60
Indonesia	+62 21 385 9449
Iran	+98 21 2271463
Italy	+39 02 67 88 449
Jordan	+961 6 586 1914
Kazakhstan	+7 3272 504 777

Kuwait	+965 481 2123
Lebanon	+961 1 216827
Malaysia	+60 3 5549 5422 (PSE)
	+60 3 5546 7000 (PM)
Montenegro, Serbia	+41 (0)26 466 25 20
	+31 73 64 02 577
Netherlands	+31 73 64 02 577
New Zealand	+64 9 272 0100
Norway	+47 67 91 78 00
Pakistan	+92 5370320 21
Philippines	+63 2 633 6162
Poland	+48 (22)338 1100
Portugal	+351 21 425 77 04
Romania	+40 21 211 4855
Russia & CIS	+7 095 980 42 06
Saudi Arabia	+966 1 465 0709
Singapore	+65 6270 0110
Slovak Republic	+421 (0)2 52 92 14 23
Slovenia, Croatia, Bosnia, Macedonia	+44 (0)20 76 63 36 57
South Africa	+27 11 313 1400
Spain	+34 (93) 425 93 00

Sweden	+46 (8) 680 26 41
Switzerland	+41 (0)41 259 96 32
Thailand	+66 2 731 8888
Turkey	+90 216 578 3700
U.A.E.	+971 4 282201
Ukraine	+380 44 4903437 +380 44 4903438 [ext. 112] +44 (0) 1344 70 69 20
U.K.	



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