

# Panasonic

# AJ-LT95

DVCPRO50 Laptop Editor  
(625/525 Switchable)



## DVCPRO 50



BACKLIGHT  
— LIGHT  
— DARK  
OFF

BRIGHTNESS

COUNTER/REMAIN

METER  
FULL/  
FINE

RESET

CTL  
TC

UB

CH CONDITION

REC ON

TC 00:00:00:00

CH 1  
CH 2  
CH 3  
CH 4

EVENT

0001

CH CON

TC 00:00:00:00

Panasonic

LOCAL EXT VTR 5 3 ON OFF

TAPE REW F-RUN F-RUN

UNL OFF

TAPE REW F-RUN F-RUN

UNL OFF

4 ch V1 V2

# A Laptop Editing Suite for High-End Production

The advent of the DVCPRO laptop editor revolutionized news program production. Acclaimed by broadcasters and production companies all around the world, this powerful editing tool earned an Emmy Award in 1997. The AJ-LT95 now brings the same digital innovation to high-end production. This advanced laptop editor uses the DVCPRO50 format to edit 4:2:2 component video images and 4-channel audio, and adds high-level functions such as 625/525 switchability, numeric keypad and advanced audio fader. Equipped with two 7-inch wide-screen LCD monitors, the AJ-LT95 is ideal for 16:9 production work. The same small size and weight as our DVCPRO model, the AJ-LT95 brings ease, convenience and superior performance to on-site editing.

EJECT

VTR 1

POWER OFF ON

CH 1 CH 2 CH 3 CH 4

V1/V2 ANALOG REC

UNI VAR

AUDIO MONITOR SELECT

MIX 4 MIX 4 (V1-2) V1 V2

MIX 2 MIX 2

L(V1) R(V2)

ASMBL V A1 A2 TC REC EDIT

1ST EDIT A3 A4

CH 3 CH 4

PLAY STILL REW FF

STOP STB OFF

EVENT IN OUT DUR

LAST X LAST ED TOTAL

GO TO GO TO OUT

AUTO EDIT MULTI PREVIEW REVIEW

7 8 9 ~

SET UP INFO F/TC

4 5 6 -

LIST CORCT TRACK BS

1 2 3 +

DUMP LOAD T SET FS

0 C ENTER

DISP EXIT RETURN

SPLIT VTR 1 VTR 2

MARK IN MARK OUT

SHIFT ALL STOP

M-cassette

Caution: Do not insert G-cassette or



## For On-Site Production

The AJ-LT95 packages two VTRs, an editing controller, two LCD monitors and two speakers into a single unit that you can carry with one hand. Its DC power supply allows battery operation. Outdoors or on a desktop, the AJ-LT95 serves as a powerful, self-contained editing suite.

## For High-End Editing Results

The DVCPRO50 format provides editing with superior digital picture quality and 4-channel sound. And with features such as 625i/525i and DVCPRO50/DVCPRO switchability and 7-inch wide-screen (16:9) monitors, the AJ-LT95 is fully suited for high-end production work.

## For Advanced Editing Operations

The AJ-LT95 is built with advanced features and specifications that meet high-end editing needs. A numeric keypad, 4-channel audio fader and jog dial allow the AJ-LT95 to handle the same operations as a studio editing system, and a 200 event memory brings top efficiency to multi-event editing work.

## For Interfacing with Studio Equipment

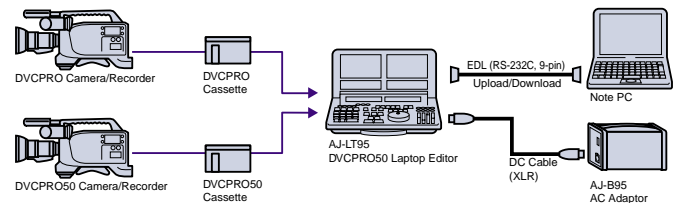
The AJ-LT95 connects to a full range of studio equipment. In addition to SDI input and output, it comes standard with digital/analogue input\* and output\*. Other interfaces include TC input and output, REF Video, EDL data, and 9-pin (RS-422A) remote.

More than just a stand-alone editor, the AJ-LT95 serves as a full-fledged studio editing system that supports camera recording and dubbing.

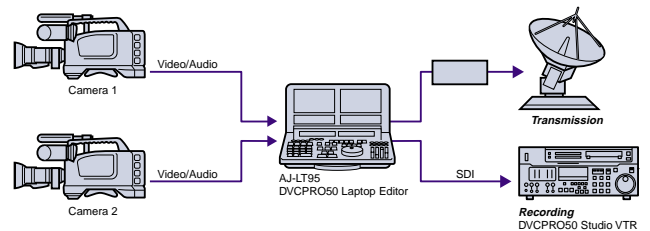
\* SDI Input for VTR2 only, SDI Output for VTR1/VTR2 switchable.

### SYSTEM EXPANSION

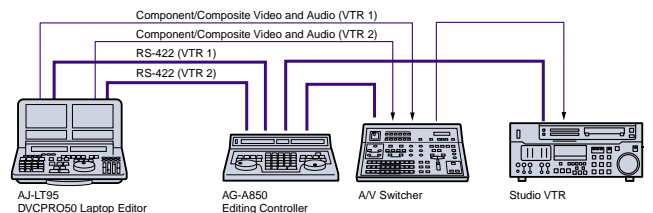
#### The components of a news gathering and editing system



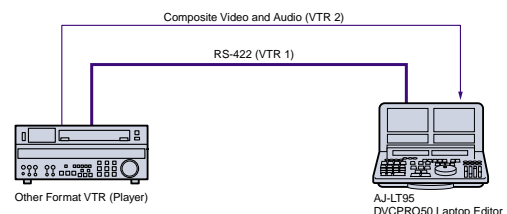
#### A simultaneous recording and playback (transmission) system



#### An A/B roll editing system featuring the AG-A850 (625 mode only)



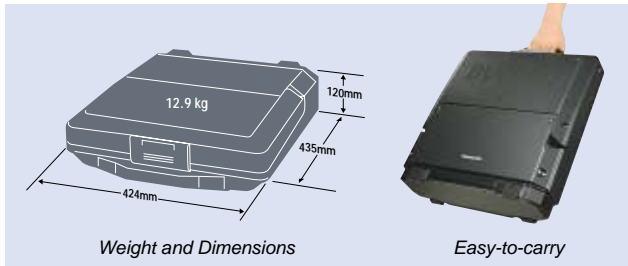
#### An editing system from archived material recorded in other format (625 mode only)



# Superior Digital Quality, Portable Laptop Design

## Lightweight, Durable, and All-in-One Package

The AJ-LT95 fits two DVCPRO50 digital VTRs, two 7" wide-screen (16:9) LCD monitors, speakers, and an editing controller in a unit about the same size as a briefcase. Weighing less than 12.9 kg, the AJ-LT95 travels easily between field and studio. A casing made of tough aluminum diecast gives the AJ-LT95 the ideal combination of light weight and rugged durability. It also comes standard with a rear panel protector to prevent damage to the terminals.



## 4:2:2 Digital Component Video

DVCPRO50 lets you create high-end video productions with 4:2:2 digital component video recording and playback. Its 3.3:1 compression ratio minimizes picture degradation during both compression and decompression, so the 4:2:2 images retain their superior quality.

## 4-Channel Digital Audio with Fader

The AJ-LT95 features four channels of high-quality 48-kHz/16-bit digital audio. Complete with 4-channel audio fader levers and 4-channel input and output terminals, the AJ-LT95 handles virtually the same operations as an audio mixer. A linear cue audio track adds convenience when searching for edit points.

\*In DVCPRO mode there are two digital audio channels.

## DVCPRO50/DVCPRO Switchable Recording

The AJ-LT95 can record and play back in both DVCPRO50 and DVCPRO formats. In DVCPRO50 mode the AJ-LT95 can record up to 92 minutes onto an AJ-5P92LP compact 1/4" cassette tape, while in DVCPRO mode recording time is doubled, to 184 minutes\*. In playback, the AJ-LT95 automatically detects which format the tape was recorded in and switches accordingly.

\* When recording in the DVCPRO50 format onto a DVCPRO tape, the recording time will be half that indicated on the cassette.

## Edits and Plays Back in the NTSC System (525)

The AJ-LT95 can edit or play back the 525 video signals used in the NTSC broadcast system. It comes fully equipped for digital output and analogue component/composite output in 525.

\* In 525 mode, playback and stand alone editing are possible. No external input is possible.



# and Full Editing Functions

## Wide-Screen (16:9) Editing

Two wide-screen (16:9) 7-inch LCD monitors let you play back and edit material recorded with 16:9 camera/recorders, such as the AJ-D900W, AJ-D910WA and AJ-D610WA. A line connection with either of these units also gives you a convenient image check and back-up recording. Also, 16:9/4:3 can be switched.

## Multi-Event Editing Up to 200 Events

The AJ-LT95 is designed for efficiency. Use VTR1 as a player and VTR2 as a recorder for quick, easy assemble and insert editing. The 200 event memory makes it simple to add the cuts you want. In insert editing mode, the video channel, four audio channels\*, and time code channels can each be selected separately.

\* two channels in DVCPRO mode

## Numeric Keypad

The AJ-LT95 is equipped with the same numeric keypad as a studio editor. Professional editing controls include input of time codes or increment/decrement values, or input of event numbers.

## On-Screen Display of EDL Data

During multi-event editing, you can display the EDL on the monitor for easy checking. On-screen display also makes it easier to adjust many editing-related settings.

## Audio Dubbing, Split and "Swap" Editing

In insert editing mode you can add narration through the mic input. Split editing, in which the timing of the video and audio are shifted, can be done using either the video or the audio as reference. Swap editing lets you interchange and record four audio source channels.

## Time Code Reader, Tape Remaining Time Display

Each VTR features a built-in EBU time code generator and reader, making it possible to edit with exact, to-the-frame precision. CTL editing is also possible. Plus, the counter can be switched to show the tape remaining time.

## Jog/Shuttle Search

The AJ-LT95 has a search dial for forward or reverse searching at up to 32 times normal speed, adjustable in 23 steps.

## Serial Digital Input and Output

The AJ-LT95 is equipped with one set of serial digital (EBU Tech.3267-E) input\* and output\* terminals. These allow connection to a host of digital equipment for degradation-free signal transmission.

\* Input for VTR2 only, Output for VTR1/VTR2 switchable  
No input for 525 mode

## A Variety of Analogue Inputs and Outputs

Analogue component video (Y/PB/PR) input and output terminals are provided for both VTR1 and VTR2, and the Y terminal can be switched to composite in/out. Also, analogue audio input and output are possible for all four channels\*, and video (VTR1/VTR2) and audio (L/R) monitor output terminals are provided.

\*Analogue Composite/Component In for 625 only.

## 9-Pin (RS-422A) Remote\*

9-pin (RS-422A) remote terminals are provided for both VTR1 and VTR2, allowing remote control from an external editing controller or other equipment. This gives you greater flexibility — for example, it allows you to use the AJ-LT95 as two players. Connecting an external VTR via the 9-pin (RS-422A) remote terminal on the VTR1 side, the AJ-LT95 can control it as the source VTR and edit from it on the VTR2 side.

This greatly simplifies editing and dubbing from archived material recorded in analogue component or other formats.

\* 625 mode only

## Time Code Input and Output for Synchronized Recording

The AJ-LT95 is equipped with time code input and two (VTR1/VTR2) output terminals that let you synchronize to an external time code. This is especially useful when recording simultaneously from multiple cameras.

\*The same terminals are used for time code output and video monitor output (they are switched by menu selection). They cannot be used for both time code output and video monitor output at the same time.

## EDL Terminal for Uploading and Downloading

An EDL terminal (D-SUB 9-pin/male) lets the AJ-LT95 upload and download EDL data to a personal computer. This adds flexibility, making it possible to use data that has been rough-edited on the AJ-LT95 for final editing in the studio.

## Additional Features

- 2-way power supply, with low power consumption
- Independent Rec inhibit switches (VTR1/VTR2)
- Encoder control: Video gain, chroma phase, black level, chroma gain, H phase, SC phase (fine/coarse)
- Colour framing synchronization



Side Pocket Operations



Rear Panel



**AJ-B95**  
AC Adaptor



**AJ-SC75**  
Carrying Case  
(Not available in some areas.)



**DVCPRO Cassette Tapes**

**DVCPRO Cassette Tape Line-Up**

Model No.	Time	Length	Model No.	Time	Length
AJ-5P92LP*	184 min.	377 m	AJ-P66MP	66 min.	137 m
AJ-P126LP	126 min.	259 m	AJ-P46MP	46 min.	96 m
AJ-P94LP	94 min.	194 m	AJ-P33MP	33 min.	70 m
AJ-P66LP	66 min.	137 m	AJ-P24MP	24 min.	51 m
AJ-P34LP	34 min.	72 m	AJ-P12MP	12 min.	27 m
			AJ-CL12LP/12MP		Cleaning Tape

\*When using other DVCPRO (25Mbps) VTR, use a VTR supporting 184 minutes tape.



**QR-DVCPRO LPT**  
Anton/Bauer Battery Mount  
(provided by Anton/Bauer)



**Quad Battery Holder**  
Anton/Bauer Battery Mount &  
4 Batteries (provided by Anton/Bauer)

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

General	
Power Requirement:	DC12 V
Input Current:	12A
Operating Temperature:	5 °C to 40 °C
Operating Humidity:	10 % to 85 % (non DEW)
Weight:	12.9 kg
Dimensions (W x D x H):	424 x 435 x 120 mm
Format:	DVCPRO50/DVCPRO switchable
Recording Track:	Digital Video/Audio; helical track TC; helical track (sub-code area) Cue; 1 track CTL; 1 track
Tape Speed:	625: 67.708 mm/s (DVCPRO50) 525: 67.640 mm/s (DVCPRO50)
Tape:	1/4-inch Metal Particle Tape
Cassette Size:	AJ-5P92LP: 125 x 78 x 14.6 mm
Rec/Play Time:	Max 184 min. with AJ-5P92LP
FF/REW Time:	Within 3.5 min. using AJ-5P92LP
Editing Accuracy:	±0 frame (with TC)
Tape Timer Accuracy:	±2 frame (continuous CTL use)
Video	
Sampling Frequency:	DVCPRO50: Y:13.5 MHz C (PB/PR): 6.75 MHz DVCPRO: Y:13.5 MHz C (PB/PR): 3.375 MHz
Quantization:	8 bits
Error Correction:	Reed-Solomon Product Code
• Digital in/Component Out (VTR2 only)	
625i Bandwidth:	Y: 25Hz to 5.5MHz (±1dB), 5.75 MHz (-3dB) Pb/Pr: 25Hz to 2.5MHz (±1dB) 2.75 MHz (-3dB)
S/N Ratio:	more than 57 dB
K Factor:	within 2%
• Analogue Composite in/Composite Out	
625i Bandwidth:	Y: 25Hz to 4.5MHz (±1.5dB)
Y/C Delay:	within 20 nsec.
K Factor:	within 2%
• Analogue Component In/Component Out	
625i Bandwidth:	Y: 25Hz to 5MHz (±1dB), Pb/Pr: 25Hz to 2.5MHz (±1dB) 2.75 MHz (-3dB)
S/N Ratio:	more than 54 dB
K Factor:	within 2%

Digital Audio	
Sampling Frequency:	48 KHz
Quantization:	16 bits
Frequency Response:	20Hz to 20kHz ±1 dB (at a standard level)
Dynamic Range:	more than 85 dB (at 1 kHz, emphasis off, "A" weighted)
Distortion:	less than 0.1 % (at 1 kHz, emphasis off, reference level)
Crosstalk:	less than -80 dB (at 1 kHz, between any two channels)
Wow & flutter:	Below measurable limit
Headroom:	20 dB (525), 18dB (625)
Emphasis:	T1=50 µsec/T2=15 µsec (On/Off)
Video Input Signal	
Analogue Component:	BNC x 3 (Y/Pb/Pr) x 2 (VTR1/VTR2), (625 only) Y: 1.0 Vp-p, 75Ω (switchable for composite in) Pb/Pr: 0.525/0.757 Vp-p switchable, 75Ω (75% colour bar, 0% set up)
Analogue Composite:	BNC x 2 (VTR1/VTR2), (625 only) 1.0 Vp-p, 75Ω (switchable for component-Y in)
Reference (625/525):	BNC x 2, Composite, loop-through with 75Ω Auto
SDI (625 only):	BNC x 1
Video Output Signal	
Analogue Component:	BNC x 3 (Y/Pb/Pr) x 2 (VTR1/VTR2), (625/525) Y: 1.0 Vp-p, 75Ω (switchable for composite out) Pb/Pr: 0.525/0.757 Vp-p switchable, 75Ω (75% colour bar, 0% set up)
Analogue Composite:	BNC x 2 (VTR1/VTR2), (625/525) 1.0 Vp-p, 75Ω (switchable for component-Y out)
Monitor (625/525):	BNC x 2 (VTR1/VTR2), Composite, 75Ω, 1.0 Vp-p with OSD On/Off
SDI (625/525):	BNC x 1
Processor adjustment range (Video Out)	
Video gain:	more than ±3 dB
Chroma gain:	more than ±3 dB
Chroma phase:	more than ±30 °
Black level:	±70 mV
Sync phase:	more than ±8 µsec
SC phase:	±180 °

Audio Input Signal	
Analogue Audio:	XLR x 4 (VTR1 CH1/2 and VTR2 CH1/2, VTR1 CH1/2/3/4 or VTR2 CH1/2/3/4), 600Ω/high impedance switchable, +4/0/-3/-20 dBu switchable (VTR2 CH2 IN; +4/0/-3/-20/-60 dBu switchable)
SDI:	BNC x 2 (active through)
Audio Output Signal	
Analogue Audio:	XLR x 4 (VTR1 CH1/2 and VTR2 CH1/2, VTR1 CH1/2/3/4 or VTR2 CH1/2/3/4), low impedance, +4/0/-3/-20 dBu switchable
Audio Monitor:	XLR x 2 (L/R or VTR1/2), 0 dBu, low impedance
SDI:	BNC x 1
Headphone:	M3/Stereo x 1, Max.-25 dBu, Variable level control, 8 Ω (Speaker/Headphone in one-switch)
Others	
TC In:	BNC x 1, 0.5 to 8 Vp-p, 10 kΩ
TC Out:	BNC x 2 (VTR1/VTR2/Video Monitor Out switchable), 2.0 Vp-p, 75Ω
Remote In: (625 only)	RS-422A interface D-sub 9-pin (Female) x 2 (VTR1/2)
EDL In, Out/AMU:	RS-232C interface D-sub 9-pin (Male)
LCD Monitor	
LCD Display:	7" wide x 2 (VTR1/VTR2) Wide/Normal, 625/525 switchable
Brightness Adjustment:	VR x 2 (VTR1/VTR2)
OSD Adjustment:	COLOUR, TINT (525 only) (VTR1/VTR2 independent)
LCD Unit On/Off:	SW/Light/Dark/Off) x 2 (VTR1/VTR2)
Speaker	
Built-in Speaker:	x 2 (VTR1/VTR2 switchable, L/STEREO/R switchable)
FL Display	
Counter/Mode Display:	x 2 (VTR1/VTR2) 8-Digit Counter (CTL/TC/UB, total, tape remain, DC level) 16-Segment Audio Level Meter (4CH, full/fine switchable) And others; 525, 25/50 Mbps, CF, Servo Lock, Tape Direction, DF, Wide, Rec/Edit/Rec Inhibit, Video/REF In, SDI Out
Event/Edit Point Display:	Event No., Edit In/Out, Split (ASP or VSP), Split In

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

# Panasonic

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[Countries and Regions]

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Austria	Tel. 43-1-61080-773	Kuwait	Tel. 965-481-2123	Sweden	Tel. 46-8-680-8238
Bahrain	Tel. 973-252292	Lebanon	Tel. 961-1-216827	Switzerland	Tel. 41-41-259-9632
Belgium	Tel. 32-2-481-0481	Malaysia	Tel. 60-3-755-0511	Taiwan	Tel. 886-2-2725-9100
Brazil	Tel. 55-11-3889-4035	Mexico	Tel. 60-3-757-6622	Thailand	Tel. 66-2-731-8888
Canada	Tel. 1-905-624-5010	Netherlands	Tel. 31-73-640-2721	Turkey	Tel. 90-216-416-0150
China	Tel. 86-10-6515-8828	New Zealand	Tel. 64-9-272-0100	U.A.E.	Tel. 971-4-282201
(Hong Kong)	Tel. 852-2313-0888	Norway	Tel. 47-22916800	U.K.	Tel. 44-118-902-9210
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France	Tel. 33-149464388	Poland	Tel. 48-3912-3173		
Germany	Tel. 49-611-18160	Portugal	Tel. 351-21-424-8630		
Greece	Tel. 30-1-969-2300	Puerto Rico	Tel. 1-787-750-4300		
Hungary	Tel. 36-1-382-6060	Russia	Tel. 7-095-258-4237		
Indonesia	Tel. 62-21-801-5666	Saudi Arabia	Tel. 966-1-465-0709		
	Tel. 62-21-385-9449	Singapore	Tel. 65-843-7691		
	Tel. 62-21-2271463	Slovakia	Tel. 421-7-5292-1423		
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