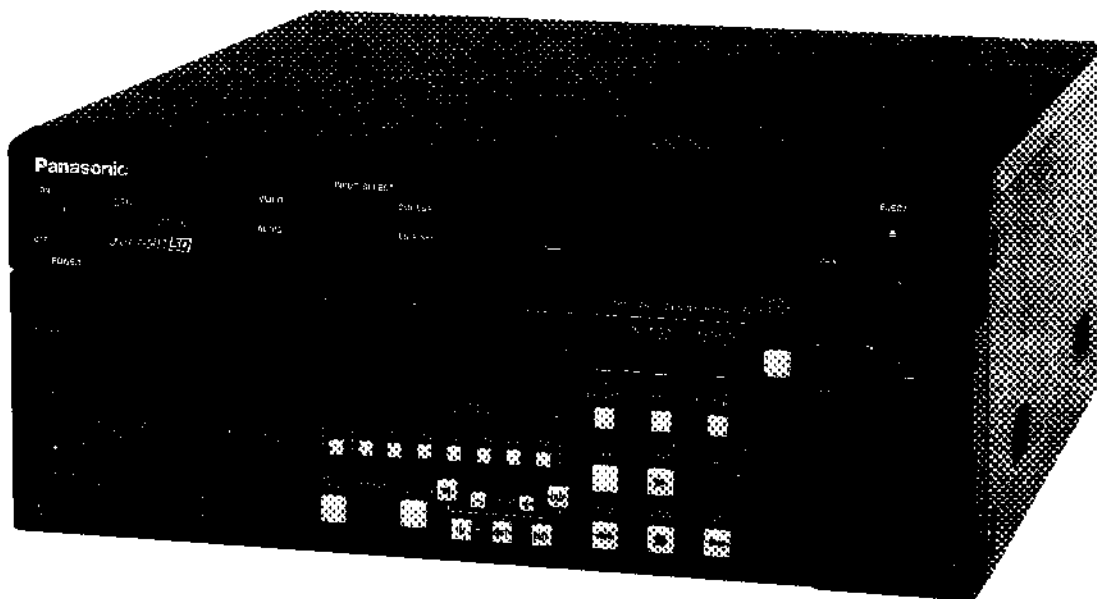


AJ-D950 DVCPRO50 Studio VTR

DVCPRO 50

Downloaded from: www.broadcast-trader.com.au



- Digital VTR with 50-Mbps recording rate using compact 1/4" metal particle tape
- Allows recording of 4:2:2 digital component video signals at a low 3.3:1 compression ratio
- Plays back tapes recorded in DVCPRO 25-Mbps format, and records DVCPRO 25-Mbps input data using CSDI or SDI

- Compact 4-rack size
- Mounts in 19" rack
- Light weight: Approx. 20 kg
- Intra-frame compression method allows frame-by-frame editing
- 525 line/60 field and 625 line/50 field switchable recording and playback in DVCPRO50 (50-Mbps) mode*
- 525 line/60 field and 625 line/50 field switchable playback in DVCPRO (25-Mbps) mode
- Four PCM audio channels and one analogue cue channel
- Records a full 63 minutes with 63-min. DVCPRO50 tape, and 93-min. recording will be available in the future
- Digital serial input and output SMPTE 259M/FBU Tech 3267-3
- Analogue composite/component video input and analogue component output (optional)
- RS-422A 9-pin serial and RS-232C interface
- Records V-blanking signals for Teletext broadcasts

* It's not 'Format Converter'.

Optional Accessories for AJ-D950

AJ-YA952 625 Analogue Video Interface Board

AJ-YA951 525 Analogue Video Interface Board

(no simultaneous insertion of AJ-YA952 and AJ-YA951)

CSDI Interface Board

AJ-D950

General

Power Requirement:	220V ~ 240V AC
Power Consumption:	200W (target)
Operating Temperature:	5°C ~ 40°C
Operating Humidity:	10% ~ 90%
Weight:	20 kg (target)
Dimensions (W x H x D):	424 x 175 x 415 mm
Digital Video:	625/525 switchable
Time Code:	Subcode area
Digital Audio:	4-channel (50Mbps)
Cue Track:	1 longitudinal track
Control Track:	1 longitudinal track
Tape Speed:	625: 67.708 mm/s, 525: 67.640 mm/s
Recording Playback Time:	Max. 90 min.
Tape:	1/4" metal particle
FF/REW Time:	Approx. 4 min.
Editing Accuracy:	±0 frame (TC)
Tape Timer Accuracy:	±1 frame (continuous CTL)
Servo Lock Time:	Within 0.5 sec. (colour framing/Standby ON)

Video Performance

Sampling Frequency:	Y: 13.5MHz, Pb/Pa: 6.75MHz
Quantization:	8 bit
Error Correction:	Reed-Solomon product code
625/Bandwidth:	Y: 25Hz ~ 5.5MHz (±0.5dB) 5.75MHz (-2dB) Pb/Pa: 25Hz ~ 2.5MHz (±0.5dB) 2.75MHz (-2dB)
525/Bandwidth:	Y: 30Hz ~ 5.5MHz (±0.5dB) 5.75MHz (-2dB) Pb/Pa: 30Hz ~ 2.5MHz (±0.5dB) 2.75MHz (-2dB)
Signal-to-Noise Ratio*:	More than 60dB
K Factor*:	Less than 1% * Digital I/Analog Component OUT

Audio Performance

Sampling Frequency:	48kHz
Quantization:	16 bit
Frequency Response:	20Hz ~ 20kHz ±1dB
Crosstalk:	Less than -80dB (at 1kHz, between any two channels)
Wow & Flutter:	Below measurable limit
Headroom:	625: 18dB, 525: 20dB
Emphasis:	T1=50 µsec/T2=15 µsec (On/Off selectable)
Cue	
Frequency Response:	300Hz ~ 6kHz ±3dB

Video Input/Output Signal

Serial Digital Component In:	BNC x 2 Active loop-through, SMPTE259M-C, EBU Tech.3267-E
Reference In:	BNC x 2 loop-through with 75Ω On/Off
CSDI In (Option):	BNC x 2 Active loop-through
Analogue Component In (Option):	BNC x 3 (Y, Pb, Pa), Y: 1.0Vp-p, 75Ω Pb/Pa (625): 0.7Vp-p, 75Ω Pb/Pa (525): 0.525/0.757Vp-p, switchable, 75Ω
Analogue Composite In (Option):	BNC x 2 loop-through with 75Ω
Serial Digital Component Out:	BNC x 3 (Video 3: Super On/Off), SMPTE259M-C, EBU Tech.3267-E
Analogue Composite Out:	BNC x 3 (Video 3: Super On/Off)
CSDI Out (Option):	BNC x 1
Analogue Component Out (Option):	BNC x 3 (Y, Pb, Pa), Y: 1.0Vp-p, 75Ω, Pb/Pa (625): 0.7Vp-p, 75Ω Pb/Pa (525): 0.525/0.757Vp-p, switchable, 75Ω

Audio Input/Output Signal

Analogue In (CH1/2/3/4):	XLR x 4, +4/0/-20dBu, 600Ω/high-impedance, switchable
Digital In (CH1/2, CH3/4):	XLR x 2, AES/EBU format
Serial Digital In:	BNC x 2, SMPTE259M-C, EBU Tech.3267-E
Cue In:	XLR x 1, +4/0/-20/-60dBu, 600Ω/high-impedance, switchable
Analogue Out (CH1/2/3/4):	XLR x 4, Low-impedance, +4/0/-20dBu
Digital Out (CH1/2, CH3/4):	XLR x 2, AES/EBU format
Serial Digital Out:	BNC x 3, SMPTE259M-C, EBU Tech.3267-E
Cue Out:	XLR x 1, Low-impedance, +4/0/-20/-60dBu
Monitor Out:	XLR x 2, Low-impedance, +4/0/-20dBu
Headphone Out:	Variable Level Control, M6, 8Ω

Others

Time Code Input:	XLR x 1, 0.5 ~ 18.0Vp-p
Time Code Output:	XLR x 1, 2.0Vp-p
RS-422A Input:	D-sub 9-pin RS-422A interface
RS-422A Output:	D-sub 9-pin RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Parallel I/O Out:	D-sub 25-pin
Encoder Remote Out:	D-sub 15-pin

Video Output adjustment

Video Gain:	±3dB
Video Chroma Gain:	±3dB
Black Level/Setup Level:	±100mV/±15 IRE
Video Phase:	±0.5H (148 ns/step)
Chroma Phase/Hue:	±30°
System H Phase:	-1.5H to +0.5H (148 ns/step)
System SC Phase:	±180°