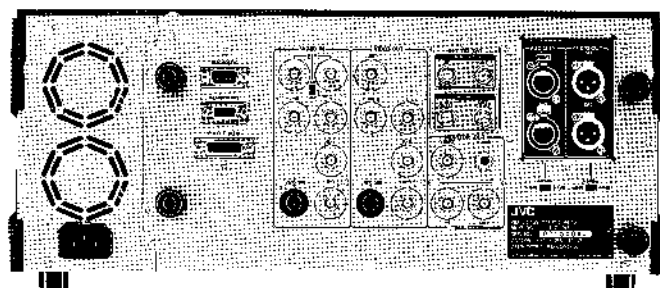
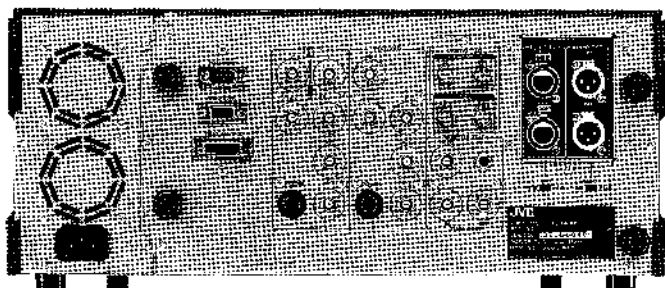


# Editing Recorders



## BR-D85E

## BR-D80E



(Shown with optional accessory)

### BR-D85E : Pre-Read and built-in SDI

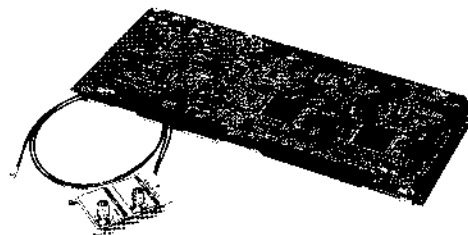
- Built-in video pre-read for layering and two machine A/B roll editing
- Built-in SMPTE 259 serial digital video I/O
- Built-in AES/EBU serial audio inputs and output

### BR-D85E and BR-D80E

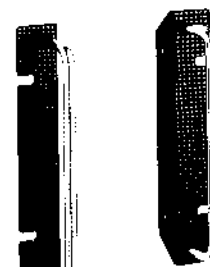
- High quality 50 Mbps, 8-bit, 4:2:2 D-9 recording and playback
- 2-hour (124 minutes) recording time with DS-124 cassette
- $\pm 1/3$  variable speed playback (field / frame select table)
- Jog/shuttle control
- Analogue I/O: Composite, Y/C, Component (Y, R-Y, B-Y)
- SDI is optional in BR-D80E
- RS-422A standard assemble/insert editing and control with external editing controllers
- Frame-by-frame recording and editing
- Two independently editable 16-bit 48 kHz PCM audio channels
- Two cue audio tracks for precise audio editing for precise audio editing.
- Adjustable record levels
- Front panel TBC adjustment of System, SC and video phases
- Remote TBC adjustment via 15-pin D-Sub connector including video level and chroma level
- RS-232C serial port for diagnostics
- LTC/VITC time code
- Re-generation of external time code, or Jam sync
- Rugged die cast chassis using ceramic tape guide rollers and sapphire flanges for long life
- Centre rotating head design for long head life

### Options

- SA-D80U: Optional SMPTE 259U serial digital I/O and optional AES/EBU serial audio I/O (BR-D80E)
- SA-K67U: Rack mount
- RM-G22U: TBC remote control unit



SA-D80U  
Serial Digital Interface



SA-K67U  
D-9 Series Rack  
Mount

# Specifications



General		Recorder BR-D92E	Player BR-D52E	Recorder BR-D85E	Recorder BR-D80E	D-9/S-VHS Player BR-D51E*	Player BR-D50E	
Rec/PB time		124 min. (DS-124)		←	←	←	←	
FF/Rew time		3 min. (DS-124)		←	←	←	←	
Picture search		±32 x visible picture		←	←	←	←	
Slow motion		±1/3 x with full picture quality (remote required)		←	←	←	←	
Tape		1/2 inch metal particle		←	←	←	←	
Tape speed		57.737 mm/s	←	←	←	←	←	
Tracks (video / audio)		12 per frame	←	←	←	←	←	
Track pitch		20 nanometer	←	←	←	←	←	
Control track		1	←	←	←	←	←	
Audio cue tracks		2	←	←	←	←	←	
Head drum diameter		62 mm	←	←	←	←	←	
Head rotation		4500 rpm	←	←	←	←	←	
Dimensions		429 (W) x 188 (H) x 567 (D) mm (16-15/16" x 7-7/16" x 22-3/8")					←	←
Weight		25 kg (55.1 lbs)	24 kg (52.9 lbs)	23 kg (50.7 lbs)	23 kg (50.7 lbs)	23 kg (50.7 lbs.)	22 kg (48.5 lbs.)	
Power consumption		180 W	160 W	180 W	180 W	180 W	160 W	
Power requirement		AC 220 to 240 V 50/60 Hz					←	←
Temp	Operating	5°C to 40°C (41°F to 104°F)					←	←
	Storage	-20°C to 60°C (-4°F to 140°F)					←	←
Humidity		30% to 80%					←	←

Video							
Sampling	Y	4:2:2 8-bit		←	←	←	←
	R-Y/B-Y	13.5 MHz		←	←	←	←
		6.75 MHz		←	←	←	←
Compression		3.3:1 DCT based intraframe coding				←	←
Data rate		50 Mbps		←	←	←	←
Frequency response (SDI in, analogue out)	Y	25 to 5.75 MHz, +0.5 / -2.0 dB (analogue out)		25 to 4.5 MHz, +1.0 / -2.0 dB (analogue out)		←	←
	R-Y/B-Y	25 to 2.75 MHz, +/-1.0 dB		←	←	←	←
S/N (SDI in analogue out)		55 dB		←	←	←	←
Pre-read window		5H	-	2H	-	-	-
SDI I/O (unbalanced)		option w/ embed audio		Standard	option	option	option
Analogue I/O (75 ohms unbalanced)	Composite	1Vp-p (out)		←	←	← (out)	← (out)
	Y/C:	Not available	Not available	Y: 1 Vp-p, C: 0.3 Vp-p (Burst)	←	← (out)	← (out)
	Component	Y: 1 Vp-p (out) R-Y / B-Y: 0.7 Vp-p		←	←	← (out)	← (out)
Reference		0.45Vp-p (loop)		←	←	←	←

## Video Control Adjustment range

System sync phase	±3 nanoseconds or more	←	←	←	←
System SC phase	360 degrees or more	←	←	←	←
Video phase	±1.0 nanoseconds or more	←	←	←	←
Video level	±3 dB or more	±3 dB or more (remote required)		←	←
Chroma level	±3 dB or more	±3 dB or more (remote required)		←	←
Setup level	0 mV or less to 100 mV	0 mV or less to 100 mV or more (remote required)		←	←

## Audio

System	4ch PCM, 32/48 kHz, 16 bit	2ch PCM, 48 kHz, 16 bit	←	←
Frequency response	20 to 20,000 Hz +1/-1.5 dB	←	←	←
Dynamic range	More than 85 dB (at 1 kHz)	←	←	←
Distortion	Less than 0.1% (1 kHz at operation level)	←	←	←
Crosstalk	Less than -75 dB (at 1 kHz)	←	←	←
Headroom	18 dB	20 dB	←	←
Emphasis	Automatic switching in play	←	←	←
Wow and flutter	Below measurable level	←	←	←
SDI I/O	option (embedded)	option (embedded)	option	option
Analogue input	Line: -6 / 0 / +4 dB high impedance balanced		←	←
Analogue output	Line: -6 / 0 / +4 dB high impedance balanced		←	←
Monitor	-6 dB low impedance balanced		←	←
Headphones	Infinity to -20 dB, 8 ohms		←	←

# System Products

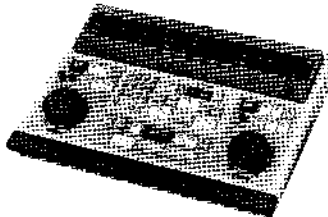


**RM-G820E**  
Pre-read Editing Controller



See page 64.

**RM-G870E**  
Multi-event A/B Roll  
Editing Controller



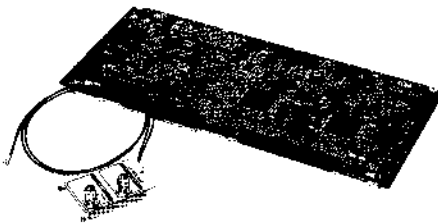
See page 65.

**KM-5000E**  
Digital Vision Mixer

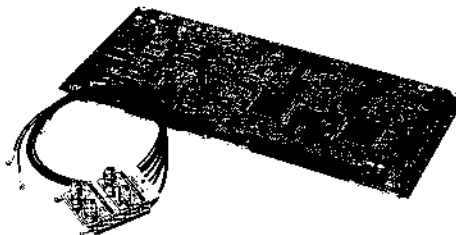


See page 23.

**SA-D50U**  
SDI Output for BR-D50/51E



**SA-D80U**  
SDI I/O for BR-D80E



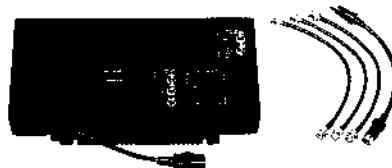
**SA-D52U**  
SDI Output for BR-D52E  
(embedded audio)



**SA-D92U**  
SDI I/O for BR-D92E  
(embedded audio)



**IF-C2000SDE**  
SDI Input for JVC  
Component Monitor



See page 75.

**RM-G22U**  
TBC Remote Control for D-9



**VC-G9050U**  
9-pin Remote Cable (5 m)  
for Edit Control



**SA-K67U**  
D-9 Rack Mount

