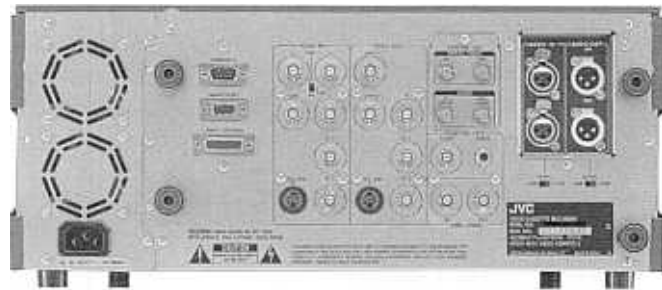


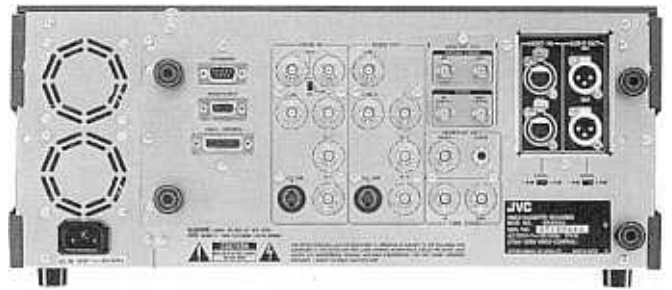
# Editing Recorders

## BR-D85U/UNS



## BR-D80U

**4:2:2**



(Shown with optional accessory)

### BR-D85U and BR-D85UNS: Pre-Read

- Built in video pre-read for layering and two machine A/B roll editing

### BR-D85U: built in SDI

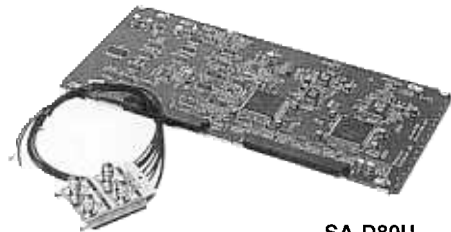
- Built in SMPTE 259 serial digital video I/O
- Built in AES/EBU serial audio inputs and output

### BR-D85U, BR-D85UNS and BR-D80U

- High quality 50Mbps, 8 bit, 4:2:2 D-9 recording and playback
- 2 hour (124 minute) recording time with DS-124 cassette
- $\pm 1/3$  variable speed playback (field / frame select table)
- Jog / shuttle control
- Analog I/O: Composite, Y/C, Component (Y, R-Y, B-Y)
- SDI is optional in BR-D85UNS/BR-D80U
- 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, chroma phase, chroma level, and pedestal 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
- Center rotating head design for long head life

### Optional Accessories

- SA-D80U: Optional SMPTE 259U serial digital I/O and optional AES / EBU serial audio I/O (BR-D85UNS / BR-D80U)
- SA-K67U: Rack mount



SA-D80U  
Serial Digital Interface

SA-K67U  
D-9 series Rack Mount



General		Recorder BR-D92U	Player BR-D52U	Recorder BR-D85U/UNS	Recorder BR-D80U	D-9/S-VHS Player BR-D51U*	Player BR-D50U
Rec/PB time		124 min (D-S124)	←	←	←	←	←
FF/Rew time		3 min (DS-104)	←	←	←	←	←
Picture search		±32 x visible picture (remote required)	←	←	←	←	←
Slow motion		±1/3 x with full picture quality	←	←	←	←	←
Tape		1/2 inch metal particle	←	←	←	←	←
Tape speed		57.737 mm/s	←	←	←	←	←
Tracks (video / audio)		10 per frame	←	←	←	←	←
Track pitch		20 nanometer	←	←	←	←	←
Control track		1	←	←	←	←	←
Audio cue tracks		2	←	←	←	←	←
Head drum diameter		62 mm	←	←	←	←	←
Head rotation		4500 rpm	←	←	←	←	←
Dimensions		W x H x D 16-15/16" x 7-7/16" x 22-3/8" (429 mm x 188 mm x 567mm)					←
Weight		55.1 lbs. ( 25 kg )	52.9 lbs. ( 24 kg )	50.7 lbs. ( 23 kg )	50.7 lbs. ( 23 kg )	50.7 lbs. ( 23 kg )	48.5 lbs. ( 22 kg )
Power consumption		180 W	160 W	180 W	180 W	180 W	160 W
Power requirements		AC 120 V~, 60 Hz					←
Temperature	Operating	41 to 104°F (5 to 40°C)					←
	Storage	-4 to 140°F (-20 to 60°C)					←
Humidity		30% to 80%					←

### Video

Sampling		4:2:2 8-bit	←	←	←	←	←
	Y	13.5 MHz	←	←	←	←	←
	R-Y/B-Y	6.75 MHz	←	←	←	←	←
Compression		3.3:1 DCT based intraframe coding			←	←	←
Data rate		50 Mbps			←	←	←
Frequency response (SDI in, analog out)	Y	0 to 5.75 MHz, +0.5 / -2.0 dB (analog out)		0 to 4.5 MHz, +1.0 / -2.0 dB (analog out)	←	←	←
	R-Y/B-Y	0 to 2 MHz, +/-1.0 dB		←	←	←	←
S/N (SDI in analog out)		55 dB		←	←	←	←
K factor		2%		←	←	←	←
Pre-read window		5 H	-	2 H	-	-	-
SDI I/O (unbalanced)		option w/ embed audio		Standard/op.	option	option	option
Analog I/O (75 ohms unbalanced)	Composite	1 Vp-p ← (out)		←	←	← (out)	← (out)
	Y/C:	Not available	Not available	Y: 1 Vp-p, C: 0.286 Vp-p (Burst)	←	← (out)	← (out)
	Component	Y: 1 Vp-p ← (out) R-Y / B-Y: 0.7 Vp-p		←	←	← (out)	← (out)
	Reference	0.45 Vp-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)	←	←
Chroma phase		±30 degrees or more		±30 degrees 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		4 ch PCM, 48 kHz, 16 bit		2 ch PCM, 48 kHz, 16 bit	←	←
Frequency response		20 to 20,000 Hz +1/-1.5 dB		←	←	←
		Less than 85 dB (at 1 kHz)		←	←	←
		Less than 0.1% (1 kHz at operation level)		←	←	←
		Less than 75 dB (at 1 kHz)		←	←	←
		20 dB		←	←	←
		Automatic switching in play				
		Below measurable level		←	←	←
		option (embedded)	option (embedded)	option	option	option
Analog input		Line: -6 / +4 dB high impedance balanced		←	←	←
Analog output		Line: -6 / +4 dB low impedance balanced		←	←	←
Monitor		-6 dB low impedance balanced		←	←	←
Headphones		Infinity to -17 dBs, 8 ohms		←	←	←

\* D-9 specifications only.

All model numbers, specifications and prices are subject to change without notice.