

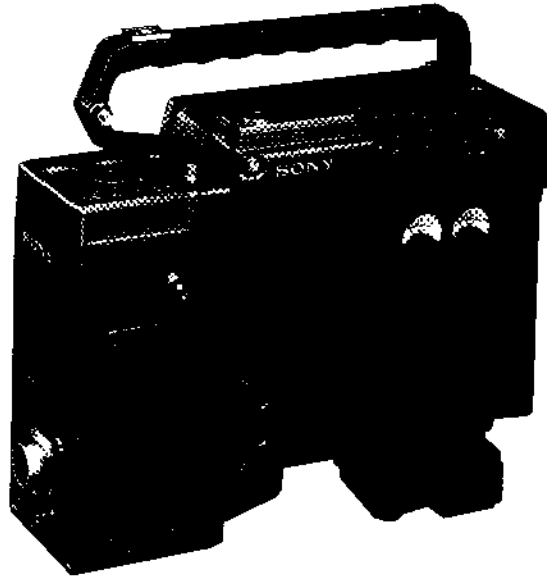
## BVV-5(NTSC)/5PS(PAL/SECAM)

**BETACAM SP**

### Betacam SP Recorder Unit

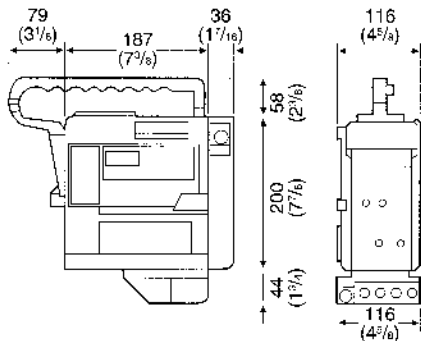
- Compact, rugged, lightweight, and low power consumption
- Can be operated:
  - directly connected to the camera as a Camcorder
  - standalone with the optional VA-5/5P Component/composite VTR Adaptor
- More than 30 (NTSC)/35 (PAL) min of recording time using S-cassette
- Two AFM audio channels in addition to two longitudinal audio channels with the Dolby™ C-type NR (Noise Reduction) system
- Video/audio confidence playback
- Viewfinder playback (luminance or CTDM selectable)
- Color playback with the optional VA-500/500P Playback Adaptor
- Full range of machine control provided (Fast forward/Rewind/Play/Stop/Eject)
- Recording review function
- Built-in LTC/VITC/User Bit generator and LTC reader with external time code lock capability
- Frame accurate back space editing
- LCD time code display
- Built-in loudspeaker
- Built-in external microphone power supply (+48V, Ch-1)

Supplied accessories: 50-pin connector cap  
4-pin connector cap  
Shoulder belt  
Screw M4  
Operation and maintenance manual



VA-5 is optional

### Dimensions



Unit: mm (inch)



		BVV-5		BVV-5PS	
General	Mass	Approx. 3.5 kg (7 lb 12 oz)			
	Power requirements	DC 12.58V			
	Power consumption	14W			
	Operating temperature	0°C to +40°C (+32°F to +104°F)			
	Storage temperature	-20°C to +60°C (-4°F to +140°F)			
	Humidity	Less than 85% (relative humidity)			
	Tape speed	11.86cm/s		10.15cm/s	
	Recording/playback time	More than 30 min (with BCT-30MA)		More than 35 min (with BCT-30MA)	
	Fast forward time	Less than 4.5 min (with BCT-30MA)		Less than 5.5 min (with BCT-30MA)	
	Rewind time	Less than 3.5 min with BCT-30MA			
Continuous operating time	Approx. 55 min (with NP-1B, BVP-7A/7AP/70IS/70ISP and BVV-5/5PS)				
Microphone	Sharp-directional (detachable)				
Video		<b>Metal Particle Tape</b>	<b>Oxide Tape</b>	<b>Metal Particle Tape</b>	<b>Oxide Tape</b>
	Bandwidth	30Hz to 4.5MHz $^{+0.5}_{-3.0}$ dB	30Hz to 4.1MHz $^{+0.5}_{-6.0}$ dB	25Hz to 5.5MHz $^{-0.5}_{-3.0}$ dB	25Hz to 4.0MHz $^{+0.5}_{-6.0}$ dB
	Luminance (50% modulation)	30Hz to 1.5MHz $^{+0.5}_{-3.0}$ dB	30Hz to 1.5MHz $^{+0.5}_{-3.0}$ dB	25Hz to 1.5MHz $^{-0.5}_{-3.0}$ dB	25Hz to 1.5MHz $^{+0.5}_{-3.0}$ dB
	Color difference (50% modulation)	—	—	—	—
	S/N ratio	More than 51dB	More than 48dB	More than 48dB	More than 46dB
	Luminance (Component IN/OUT)	More than 53dB	More than 50dB	—	—
	Chrominance AM	More than 53dB	More than 50dB	—	—
	PM	—	—	—	—
	Color difference	—	—	More than 48dB	More than 45dB
	Distortion	—	—	—	—
	Differential gain	Less than 2%	Less than 3%	—	—
	Differential phase	Less than 2°	Less than 3°	—	—
	K-factor (2T pulse)	Less than 2%	Less than 3%	—	—
Y/C delay	Less than 20ns	Less than 20ns	Less than 20ns	Less than 20ns	
Pulse shape distortion (K-pulse, 2T)	—	—	Less than 2%	Less than 3%	
Audio	Longitudinal	—	—	50Hz to 15kHz $^{+1.5}_{-3.0}$ dB	50Hz to 15kHz $\pm 3.0$ dB
	Frequency response	50Hz to 15kHz $^{+1.5}_{-3.0}$ dB	50Hz to 15kHz $\pm 3.0$ dB	(20dB below peak level (1)*)	(20dB below peak level (1)*)
	S/N ratio	More than 72dB (at 3% distortion level)	More than 50dB (Dolby NR off) (at 3% distortion level)	More than 62dB (at peak level (1)*) Weighted CCIR 468-3)	More than 58dB (Dolby NR on) (at peak level (1)*) Weighted CCIR 468-3)
	Distortion T.H.D. (at 1kHz reference level)	Less than 1.5%	Less than 2%	—	—
	Distortion (at 1kHz) at peak level (1)* at operational level (+4dBm)	—	—	Less than 3% Less than 1.5%	Less than 3% Less than 2%
	Crosstalk (at 1kHz)	Less than -55dB	Less than -55dB	Less than -55dB	Less than -55dB
	Depth of erasure (at 1kHz)	More than 65dB	More than 65dB	—	—
	Erase ratio (at 1kHz)	—	—	More than 65dB	More than 65dB
	Wow and flutter	Less than 0.15% rms	Less than 0.15% rms	Less than 0.15% rms (DIN45507)	Less than 0.15% rms (DIN45507)
	AFM	—	—	20Hz to 20kHz $^{+0.5}_{-2.0}$ dB	—
	Frequency response	20Hz to 20kHz $^{+0.5}_{-2.0}$ dB	—	(20dB below peak level (2)*)	—
	S/N ratio (at peak level (2)*) Weighted CCIR 468-3)	—	—	More than 68dB	—
	Dynamic range	More than 80dB	—	—	—
	Distortion T.H.D. (at 1kHz reference level)	Less than 0.5%	—	—	—
	Distortion (at 1kHz) at peak level (2)* at operational level (+4dBm)	—	—	Less than 3% Less than 0.6%	—
Crosstalk (at 1kHz)	Less than -65dB	—	Less than -65dB	—	

\*Peak level (1)=+8dB above operational level

\*Peak level (2)=+19dB above operational level

\*The specifications given above were measured by playing back tapes recorded by the BVV-5/5PS on standard Betacam SP VTRs.

\*All audio specifications in metal mode were measured with Dolby on.