

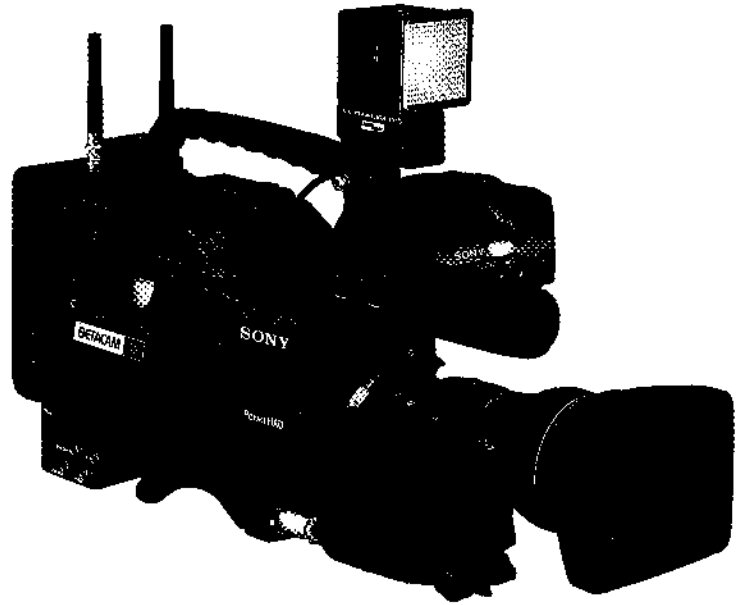
**Betacam SX Camcorder**

- Superb picture and high sound quality of Betacam SX format
- Component digital recording using the advanced compression algorithm of MPEG-2 4:2:2P@ML
- 4 channels of 16-bit/48kHz digital audio
- Incorporates 10-bit/28MHz full digital signal processing in the camera section and Betacam SX digital recording in the VTR section
- Same size cassette tape as Betacam SP provides longer recording time of up to 62 minutes on a single S-cassette
- Current Betacam SP metal tape cassettes can be used for Betacam SX recording (with Betacam SX, recording time is double the stated duration of the Betacam SP tape)
- Approximately 180 minutes of continuous operation with a BP-L90A lithium-ion battery and 120 minutes with a BP-L60A
- Compact and lightweight design approximately 6kg including battery, tape and lens
- Equipped with 2/3-inch Power HAD 1000 IT CCDs with 400K(NTSC) / 470K(PAL) picture elements
- Auto Tracing White Balance (ATW) capability
- Turbo Gain function
- Provides Good Shot Mark and REC. Start Mark functions to speed the editing process
- Variable speeds of electronic shutter for clear images of high-speed moving objects

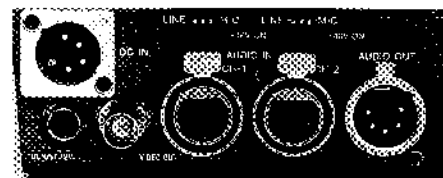
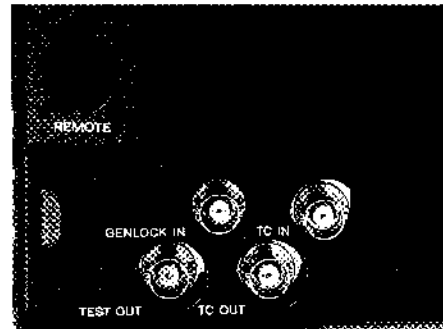
NTSC: 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 (S)

PAL: 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 (S)

- Equipped with a lightweight 1.5-inch monochrome viewfinder (with horizontal resolution of 600 TV lines)
- Color playback in the field without an external adaptor
- Viewfinder playback
- Two-layer menu control system consisting of User Menus and Engineer Menus
- Setup Card system to store a large number of setup parameters on removable setup cards so as to allow quick, easy and accurate camcorder settings
- Slot-in mechanism to accommodate an optional WRR-855A Wireless Microphone Receiver
- Internal light system
- 6-pin remote interface for connecting RM-P9 Remote Control Unit (option)
- Full color genlock capability
- Built-in time code regenerator
- A camera tally on the viewfinder in addition to the tally function on the front and the back of a camcorder
- Extensive LCD display indicating Time Code, CTL and User-bit data, Tape Remaining, Battery Capacity and audio recording levels
- Stereo audio line output
- High reliability and easy maintenance with sophisticated diagnostic system



Lens, light, WRR-855A and battery are options.



Supplied accessories: Shoulder belt (1)  
 Microphone (1)  
 XLR cap (4)  
 Maintenance manual <Part 1> (1)  
 Operation manual

Optional accessories: BSC-1-Pack Setup Card  
 WRR-855A Slot-in Wireless Microphone Receiver  
 WRR-860A Wireless Microphone Receiver (adaptor required)  
 WRR-810A Wireless Microphone Receiver (adaptor required)  
 BP-L90A Rechargeable Lithium-ion Battery  
 BP-L60A Rechargeable Lithium-ion Battery  
 AC-DN2A AC Adaptor  
 AC-550/550CE AC Adaptor  
 RM-P9 Remote Control Unit  
 CA-701 Camcorder Adaptor  
 CA-702/702P Camcorder Adaptor  
 CA-755/755P Camcorder Adaptor  
 LC-DN7 Carrying Case  
 BVF-55/55CE 5-inch Viewfinder  
 BVF-V10/V10CE 1.5-inch 4:3 B/W Viewfinder  
 BVF-V20W/V20WCE 2-inch B/W Viewfinder  
 BVF-VC10W 1.35-inch Color Viewfinder  
 BVM-401 Viewfinder Retention Bracket

# Specifications

	DNW-7	DNW-7P	
General	Mass	Approx. 4.0kg (8 lb 13 oz)	
	Operating mass	Approx. 6.0kg (13 lb 3 oz)	
	Power requirements	DC 12V +5.0V/-1.0V	
	Power consumption	29W (REC mode)	
	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	25% to 85% (relative humidity)	
	Continuous operating time	Approx. 120 min. (with BP-L60A) Approx. 180 min. (with BP-L90A)	
Inputs/Outputs	Genlock video input	BNC (1), 1.0Vp-p, 75Ω	
	Time code input	BNC (1), 0.5 to 18Vp-p, 10kΩ	
	Audio CH-1/2 input/Mic input	XLR-3-31 type (2), -60dBu/+4dBu selectable, high impedance, balanced	
	Video output	BNC (1), 1.0Vp-p, 75Ω, sync negative	
	Test output	BNC (1), 1.0Vp-p, 75Ω, sync negative	
	Time code output	BNC (1), 1.0Vp-p, 75Ω	
	Earphone	Mini jack	
	Audio output	XLR 5-pin male (stereo)	
	Lens	12-pin	
	Remote	6-pin	
	Light	2-pin, DC 12V, max. 30W	
	DC input	XLR 4-pin male with switch (for the optional AC-550/550CE)	
	DC output	4-pin (for wireless microphone receiver), DC12V	
	VTR Section	Recording format	Betacam SX
Tape speed		59.515 mm/s (525 mode)	59.575 mm/s (625 mode)
Playback/Recording time		Max. 62 min. with BCT-62SXA cassette	
Fast forward time		Approx. 5.5 min. with BCT-62SXA	
Rewind time		Approx. 5 min. with BCT-62SXA	
Recommended tape		Sony Betacam SX BCT-62SXA series Sony BCT-30MA series Sony UVWT-30MA series	
Sampling frequency		Y: 13.5MHz R-Y/B-Y: 6.75MHz	
Quantization		8bits/sample	
Error correction		Reed-solomon code	
Video performance			
K-factor (2T pulse)		1% or less	
Y/R-Y/B-Y delay		15ns or less	
Digital audio performance			
Sampling frequency		48kHz (synchronized with video)	
Quantization	16bits/sample		
Frequency response	20Hz to 20kHz +0.5dB/-1.0dB		
Dynamic range (emphasis ON)	More than 85dB		
Distortion (a: 1kHz, emphasis ON, reference level)	Less than 0.08%		
Cross talk (at 1kHz, reference level)	Less than -70dB		
Wow & flutter	Below measurable limit		
Head room	20dB		
Emphasis (ON/OFF selectable)	T1=50μs, T2=15μs		
Camera Section	Pickup device	3-chip 2/3-inch Power HAD 1000 IT CCD	
	Picture elements	811(H) × 508(V)	795(H) × 596(V)
	Optical system	F1.4 prism system	
	Built-in filters	1: CLEAR 2:5600K+1/8ND 3:5600K 4:5600K+1/64ND	
	Shutter speed	1/100, 1/25, 1/25, 1/500, 1/1000, 1/2000 (s)	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 (s)
	Clear scan	CLS: 60.0 to 10156Hz (263 steps)	CLS: 50.0 to 10101Hz (312 steps)
	Lens mount	Special bayonet mount	
	Sensitivity (2000lx, 89.9% reflective)	F10	
	Minimum illumination	Approx. 0.3lx (F1.4 lens, +42dB Turbo Gain)	
	Video S/N ratio (typical)	63dB	61dB
	Vertical resolution	(without EVS) 400 TV lines (with EVS) 450 TV lines	(without EVS) 480 TV lines (with EVS) 530 TV lines
	Registration	0.05% (all zones, without lens)	
	Geometric distortion	Below measurable level (without lens)	
	Warm-up time	2 sec.	
Modulation depth at 5MHz	60% (Typical)		
Viewfinder	CRT	1.5-inch monochrome	
	Controls	BRIGHT control, CONTRAST control, PEAKING control, TALLY, ZEBRA, DISPLAY switches	
	Horizontal resolution	600 TV lines	
	Microphone	Ultra-directional (detachable)	

The specifications given above were measured by CA-701.