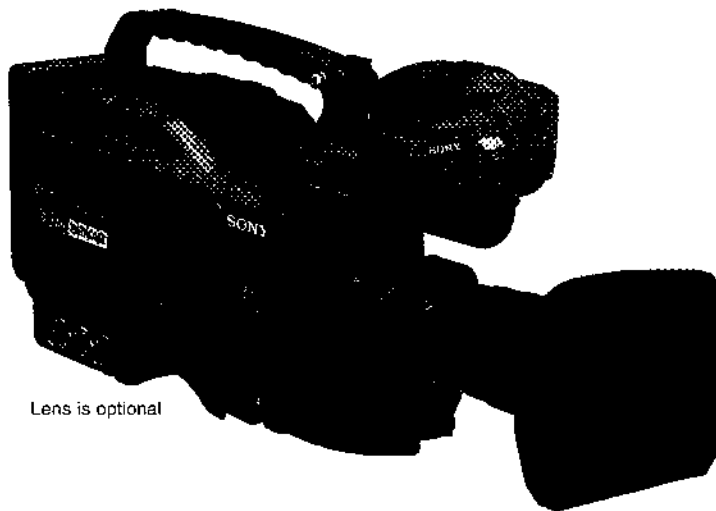


DVW-790WS(NTSC)/790WSP(PAL)

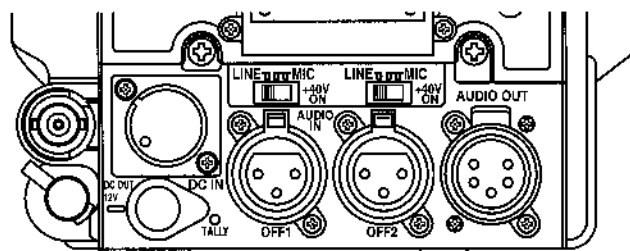
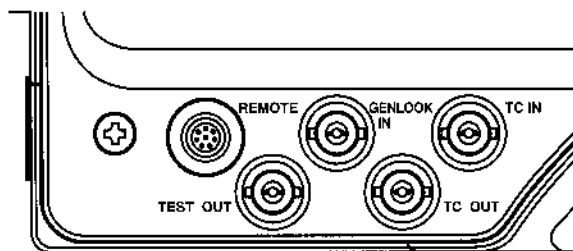
Digital BETACAM

Digital BETACAM 16:9/4:3 Switchable One Piece Camcorder

- Superb picture and high sound quality of Digital BETACAM format
- 12-bit A/D converter
- High performance ADSP (Advanced Digital Signal Processing)camcorder
- Incorporates digital signal processing camera circuit with 3-chip 2/3-inch 16:9/4:3 Widescreen Power HAD 1000 FIT CCD (with 520,000(NTSC)/620,000(PAL) picture elements) in the camera section and the Digital BETACAM recording technology in the VTR section to cover most quality conscious EFP applications
- Multi Matrix Function for the color correction.
- Turbo Gain feature which enables to raise the gain level to +48 dB
- Auto Tracing White Balance for adjusting the white balance as lighting conditions change.
- TruEye™ Process for faithful color reproduction
- Selectable Gamma Curve for more natural tonal reproduction.
- Color Temperature Control which allows to change the color balance of the picture to make it warmer or colder.
- Assignable Button for ATW, RET, REC, Turbo Gain and other functions
- Setup Card system to store all the setup parameters made via the menu system from the camera head
- Internal Light System powered from the camcorder's lithium-ion battery.
- Stereo Audio Output from the 5-pin XLR connector.
- Incorporates Optical Filter Wheels for ND(Neutral Density) and CC(Color Conversion).
- Electronic Shutter Speeds:
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)
- Super Innovative Clear Scan (NTSC: 60.1 to 7000Hz)(PAL:50.2 to 9000Hz), Extended Clear Scan (ECS)(NTSC:30.4 to 58.3Hz)(PAL: 25.4 to 48.7Hz) function for shooting computer displays
- Enhanced Vertical Definition System (EVS) for vertical resolution of 450 (NTSC), 530 (PAL)TV lines
- Shot Data Recording of the date and time of shooting, shot ID, cassette number and so on.
- LCD panel showing a wide range of status and diagnostic displays.
- Field playback capability of full color video and audio without an adaptor
- Basic camera control from RM-150 Remote Control Unit
- Compact and lightweight of approx.7kg including a viewfinder, battery, cassette, microphone and lens
- Low power consumption of 32 W
- 40 minutes of recording time using the S-cassette
- Virtually no flare viewfinder with quick start CRT provides high horizontal resolution of 600 TV lines

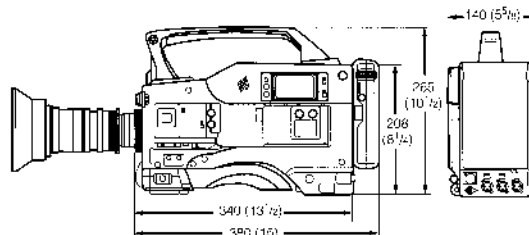


Lens is optional



- Supplied accessories:
- Microphone (1)
 - Shoulder belt (1)
 - Lens cap (1)
 - XLR cap (4)
 - Maintenance manual (1)
 - Operation manual (1)
 - BVF-V20W/V20WCE 2-inch 16:9 B/W Viewfinder (1)
- Optional accessories:
- BKDW-701 Servo Filter Unit
 - BKDW-702 SDI Output Board
 - BKDW-703 Picture Cache Board
 - CA-701 Camera Adapter
 - CA-702/P Camera Adapter
 - CA-755/P Camera Adapter
 - AC-DN1 AC Adapter
 - AC-DN2A AC Adapter
 - BSC-1 Pack Setup Card
 - BVF-VC10W 1.35-inch 16:9 Color Viewfinder
 - WRR-860A Wireless Microphone Receiver
 - WRR-855A Wireless Microphone Receiver (adaptor required)

Dimensions



Unit: mm (inch)

Specifications

	DVW-790WS	DVW-790WSP	
General	Mass	Approx. 5.0 kg (11 lb. 1 oz)	
	Operating mass	Approx. 7.0 kg (15 lb. 7 oz)	
	Power requirements	DC 12 V +5.0/-1.0 V	
	Power consumption	32 W	
	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. 185 min (with BP-L90A)	
Signal Inputs	Genlock video input	BNC(1), 1.0 Vp-p, 75 Ω	
	Time code input	BNC(1), 0.5 to 18 Vp-p, 10 kΩ	
	Audio input (CH-1/2)	XLR 3-pin(2), -60 dBm/+4 dBm selectable, high impedance, balanced	
	Mic input	XLR 3-pin(2), -60 dBm/+4 dBm selectable, high impedance, balanced	
Signal Outputs	Video output	BNC(1), 1.0 Vp-p, 75 Ω	
	Video test output	BNC(1), 1.0 Vp-p, 75 Ω	
	Time code output	BNC(1), 1.0 Vp-p, 75 Ω	
	Earphone	Mini jack	
	Audio output (CH-1/2)	XLR-5-pin male(stereo)	
Others	Lens	12-pin	
	Remote	8-pin	
	Light	2-pin, DC 12 V, max. 50 W	
	DC input	XLR 4-pin (for the optional AC-550/550CE)	
	DC output	4-pin (for wireless microphone receiver), DC 12V	
	Camcorder adapter	40-pin	
	VTR Section	General	
Recording format		Digital BETACAM	
Tape speed		96.7mm/s	
Playback/Recording time		Max. 40 min. with BCT-D40 cassette	
Fast forward time		Less than 6 min. with BCT-D40 cassette	
Rewind time		Less than 5 min. with BCT-D40 cassette	
Recommended tape		Sony Digital Betacam S cassette, BCT-D6/D12/D22/D32/D40 Series	
Sampling Frequency		Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz	
Quantization		10 bit/sample	
Error correction		Reed-Solomon code	
Error concealment		Adaptive three dimensional	
Digital video performance			
Bandwidth		Y: 5.75 MHz +/-0.5 dB, R-Y/B-Y: 2.75 MHz +/-0.5 dB	
S/N ratio		More than 62 dB	
k-factor(2T pulse)		Less than 1 %	
Linearity		Less than 2 %	
Y/R-Y/B-Y delay		Less than 15 ns	
Digital audio performance			
Sampling frequency		48 kHz (synchronized with video)	
Quantization		20 bits/sample	
A/D and D/A quantization	16 bits/sample		
Frequency response	20 Hz to 20 kHz +0.5 dB/-0.6 dB		
Dynamic range	More than 85 dB(emphasis ON)		
Distortion (at 1 kHz, emphasis ON, reference level)	Less than 0.08 %		
Crosstalk (at 1 kHz, reference level)	Less than -70 dB		
Wow and flutter	Below measurable limit		
Head room	20 dB (ex-factory setting)		
Emphasis (ON/OFF selectable)	T1=50 μs, T2=15 μs		
Analog audio performance (Cue track)			
Frequency response	100 Hz to 12 kHz +/-3 dB		
S/N ratio	More than 50 dB at 3 % distortion level		
Distortion	Less than 1.5 % (T.H.D at 1 kHz reference level)		
Wow and flutter	Less than 0.2 %		
Camera Section	Pickup device	3-chip 2/3-inch Widescreen Power HAD 1000 FIT CCD	
	Picture elements	1038(H) x 504(V)	1038(H) x 594(V)
	Optical system	F1.4 prism system	
	Built-in filters	1: CLEAR 2: 1/4 ND 3: 1/16 ND 4: 1/64 ND A: CROSS B: 3200 K C: 4300 K D: 6300 K	
	Shutter speed	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000(s)	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000(s)
	Lens mount	Special bayonet mount	
	Sensitivity (2000 lx with F8.0, 89.9 % reflective)	F9.0(Typical) Equivalent to ISO 500 or more	
	Minimum illumination	Approx. 0.2 lx(F1.4 lens, +48 dB Turbo Gain)	
	Smear level	-140 dB	
	S/N ratio	65 dB (typical)	63 dB (typical)
	Vertical resolution		
	Without EVS	400 TV lines	480 TV lines
	With EVS	450 TV lines	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 5 MHz			
16:9 Mode	More than 65 %		
4:3 Mode	More than 55 %		
Index	CRT	2.0-inch monochrome	
	Controls	BRIGHT control, CONTRAST control, PEAKING control, TALLY, ZEBRA, DISPLAY switches	
	Horizontal resolution	450 TV lines (16:9)	