

DSR-500WSP

Digital Camcorder

- Highly mobile one-piece design •Compact and lightweight: 6.3 kg (13 lb 14.2 oz) including viewfinder, microphone, lens, battery and tape •Compact crew package with the LC-DS300SFT or the LC-DS500 Carrying Case •Low power consumption: Camera head consumes only 24 W. •DynaFit™ shoulder pad for comfortable molding to any shoulder
- Selectable four built-in filters: 3200 K/3000 K, 5600 K, 5600 K + 1/8, 5600 K + 1/64. •DSP (Digital Signal Processing) •Three 2/3-inch Power HAD WS™ CCDs for low smear level, high sensitivity and high S/N ratio •16:9 and 4:3 Switchable
- Generates a 16:9 ID pulse automatically when shooting 16:9 images •Superb picture quality of the DVCAM format
- Playback capability of consumer DV recorded tapes (SP mode only) •Long recording time; up to 184 minutes with a standard cassette and 40 minutes with a mini cassette •Digital output of i.LINK™ interface •ClipLink operation •TruEye™ process for faithful colour reproduction •DynaLatitude™ •Skin Detail with auto detection of active area •SetupLog™ function for automatic recording of camera setting data •SetupNavi™ function for camera setup file storage •Pool feed operation in which the DSR-500WSP can function as a recorder using the analogue composite signal from the distributor. (The optional DSBK-501P is required.) •Total Level Control System (TLCS) for automatically extended range of light control •EZ Focus and EZ mode for quick camera setup •Auto Tracing White Balance (ATW) function •Adjustable Black Stretch and Compress •Dual Zebra viewfinder indication of over exposure
- Video light connection for Anton Bauer® Ultra Light 2 •Menu control by Jog Dial operation •Switch guard for preventing miss-operations. •Time code superimposed during playback
- Edit Search function •Freeze Mix function •26-pin VTR interface capability

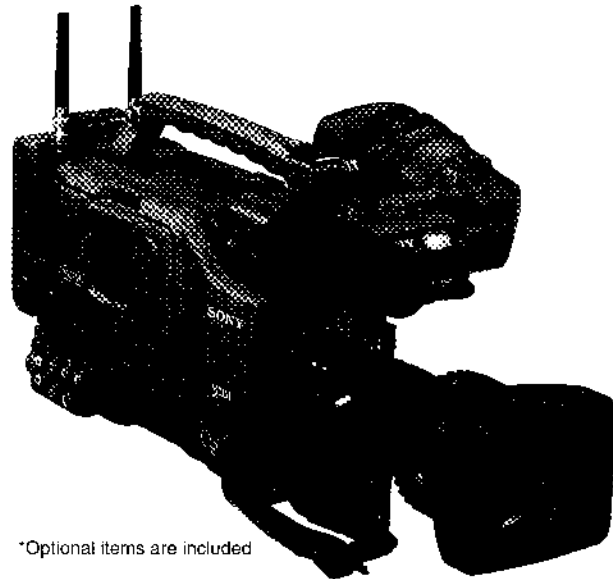
Specifications

GENERAL

Power requirements: DC 7.2 V (Battery operation), DC 8.4 V (AC adaptor)
 Power consumption: 11.6 W (during camera recording)
 Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
 Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F)
 Operating humidity: Less than 85%
 Storage humidity: Less than 90%
 Tape speed: 28.221 mm/s
 Recording/Playback time: Standard size: 184 min. w/PDV184ME
 Mini size: 40 min. w/PDVM40ME
 Fast forward/Rewind time: Standard size: Approx. 12 min. w/PDV184ME
 Mini size: Approx. 3 min. w/PDVM40ME
 Continuous recording time: Approx. 70 min. w/BP-L40 battery
 140 min. w/BP-L60A battery
 230 min. w/BP-L90A battery
 Mass: Approx. 3.6 kg (7 lb 15.0 oz) camera head only
 Approx. 4.4 kg (9 lb 11.2 oz) with VF and microphone
 Approx. 5.8 kg (12 lb 12.6 oz) with VF, microphone and lens
 Approx. 6.3 kg (13 lb 14.2 oz) with VF, microphone, lens, battery (BP-L40) and videocassette tape
 Dimensions:(w/h/d): 121 × 192 × 280 mm
 (4 7/8 × 7 5/8 × 11 1/8 inches) (without projections)
 242 × 247 × 547 mm
 (9 5/8 × 9 3/4 × 21 1/2 inches) (with projections)

CAMERA PART

Image device: 3-chip 2/3-inch, Interline-Transfer CCD
 Optics: F1.4 medium index prism system
 Effective picture elements: 980 x 582 (H x V)
 Total picture elements: 1038 x 594 (H x V)
 Sensing area: 9.6 mm x 5.4 mm
 Built-in filters:
 1: 3200 K/3000 K
 2: 5600 K+1/8 ND
 3: 5600 K
 4: 5600 K+1/64 ND
 Lens mount: Sony 2/3-inch bayonet mount
 Signal system: PAL colour system
 Scanning system: 2:1 interlaced, 625 lines, 50 fields/s
 Horizontal frequency: 15.625 kHz
 Vertical frequency: 50 Hz
 Sync system: Internal and external with the VBS or BS signal



*Optional items are included

Vertical resolution: 480TV lines (w/o EVS), 530TV lines (w/EVS)
 Minimum illumination: 0.5 lx with F1.4, Hyper gain (30 dB+DPR)*
 0.8 lx with F1.8, Hyper gain (30 dB+DPR)*
 Sensitivity: F1.1 at 2000 lx (3200 K, 89.9% reflectance) (typical)
 Gain selection: -3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18dB, 18 dB + DPR, 24 dB, 24 dB+DPR, Hyper Gain (30 dB + DPR)
 Shutter speed selection: OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 sec
 Clear scan selection: 50.3 to 201.4 Hz
 Signal-to-noise ratio: 61 dB (typical)
 Registration: 0.05% (all zones, without lens)
 Geometric distortion: Below measurable level

VTR PART

VIDEO PERFORMANCE

Bandwidth: Luminance: 25 Hz to 5.5 MHz + 1.0/-2.0 dB
 Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB
 S/N ratio (luminance): More than 55 dB
 K-factor (K2T, KPB): Less than 2.0%
 Y/C delay: Less than 30 nsec

AUDIO PERFORMANCE

Frequency response: 48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB
 32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB
 Dynamic range: More than 80 dB
 Distortion (THD): Less than 0.08% (1 kHz reference level, 48 kHz)

INPUT/OUTPUT connectors

Signal inputs:

GENLOCK VIDEO IN: BNC, 1.0 Vp-p, 75 Ω
 TC IN: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ
 EXT AUDIO CH-1/2: XLR 3-pin x 2 Female, -60 dBu, 3 kΩ/+4 dBu, 10 kΩ
 MIC IN: XLR 3-pin Female
 ANALOGUE VIDEO IN: BNC, 1.0 Vp-p, 75 Ω
 (with DSBK-501P optional board installed)

Signal outputs:

VIDEO OUT: BNC, 1.0 Vp-p, sync negative, 75 Ω, 26-pin Male
 VBS: 1.0 Vp-p, sync negative
 Y/R-Y/B-Y: Y: 1.0 Vp-p, sync negative
 R-Y/B-Y: 525 mVp-p
 Y/C: Y: 1.0 Vp-p, sync negative
 C: 300 mVp-p (burst level)
 DV OUT: i.LINK, 6-pin IEEE1394-based
 MONITOR OUT: BNC, 1.0 Vp-p, sync negative, 75 Ω
 TC OUT: BNC, 1.0 Vp-p, 75 Ω
 AUDIO CH-1/2: Phono, -10 dBu, 47 kΩ
 S-VIDEO: DIN 4-pin, 1.0 Vp-p, 75 Ω

Others:

DC IN: XLR 4-pin, Male
 DC OUT: 4-pin, Female
 BATTERY TERMINAL: 5-pin
 EARPHONE: Mini-jack
 LIGHT OUT: 2-pin Female
 WRR OUT: 7-pin
 LENS: 12-pin
 VF: 20-pin
 REMOTE1: Stereo mini
 REMOTE2: 10-pin

<Notes>

* DPR is equivalent to +6 dB gain up.

18 dB+DPR: Equivalent to +24 dB gain up

24 dB+DPR: Equivalent to +30 dB gain up

Hyper Gain (30 dB+DPR): Equivalent to +36 dB gain up

* The specifications for "Video/Audio performance" were measured by playing back material.