

DSR-450WSPL

Three 2/3-inch Power HAD EX CCD sensors 16:9/4:3 DVCAM camcorder without lens



Overview

'Green-friendly' camcorder delivering improved imaging performance for programme makers.

Sony camcorders like the DSR-570WSP and DSR-390P have already attracted a dedicated following from programme makers looking for the best possible blend of features, performance and value from the DVCAM format.

Today, these camcorders are the preferred choice for a variety of applications all around the world, from video journalism and newsgathering to event photography and much more.

Building on this success, Sony now announces the DSR-450WSP and DSR-400P DVCAM camcorders.

The DSR-450WSP and DSR-400P continue this tradition, while significantly improving imaging quality and overall usability thanks to its 2/3" Power HAD EX CCD sensors and refined ergonomics.

It also demonstrates Sony's ongoing commitment to bring all new camera products in line with its industry-leading Green Management programme.

The DSR-450WSPL is supplied without lens.

- **16:9/4:3 Switchable**

Wide aspect CCDs and digital signal processing allow the DSR-450WSP to operate in both 16:9 and 4:3 aspect ratio modes. When shooting in 16:9 mode, it is also possible to display both 16:9 and 4:3 safety zones in the supplied DXF-801 viewfinder.

- **Film Like Shooting with Progressive Mode**

Incorporating Sony Power HAD EX CCDs, the DSR-450WSP generates progressive images of 25P, delivering outstanding clarity as well as cinematic look.

- **Superb Image Quality**

The larger 2/3" type PowerHAD EX 3CCDs provide a dramatic improvement in imaging - including higher sensitivity and reduced smear levels - compared with 1/2" CCD sensor models. The lens is compatible with the conventional 2/3" cameras and camcorders such as DXC-D50P and DSR-570WSP.

- **Built-in LCD Monitor**

The enhanced imaging performance is complemented by a large fold-out 2.5" colour LCD monitor screen that gives programme makers the opportunity to frame and assess shots even in high or low angle shooting.

- **DVCAM & DV(SP) Recording**

You can ensure the reliability with DVCAM recording, but in addition you can switch the DSR-450WSP from DVCAM to DV recording mode to extend recording time up to 276 minutes.

- **Rugged & Ergonomic Design**

Based on years of Sony experience in camera ergonomics, the DSR-450WSP offers high levels of mobility, comfort and balance.

The shoulder pad position is adjustable and viewfinder height is selectable between two positions, while rear panel connectors are located well away from the battery pack for quicker, easier cable connection. For even greater comfort and convenience, 4 switches can be assigned to a frequently used function.

- **Flexible Image Controls**

The DSR-450WSP provides highly advanced image control features available only on high-end studio cameras. These allow images to be recorded with maximum quality and with an expanded palette of creative possibilities.

- TruEye™ processing
- Triple Skin Tone Detail control
- Auto-Tracing White Balance (ATW) function
- Multi-matrix function
- Colour temperature control

- **Scene File Store on Memory Stick™**

You can save various camera settings on a Memory Stick and quickly recall them when necessary. In addition, when two or more camcorders are used for shooting, the settings of the first camcorder can be copied to the others via the Memory Stick making the colour matching easier.

- **New Mechanical Deck**

The different mechanical deck is adopted on the DSR-450P compared with the DSR-570WSP, while maintaining the compatibility of Standard and Mini cassettes with no mechanical adaptors required. With this new deck the performance of FF/REW time is drastically improved. In addition, combined with the new mechanical chassis the mechanical sound when tape is ejected is more quiet than the conventional camcorders.

Features

- **2/3" Power HAD EX CCDs**

The DSR-450WSP incorporates 2/3" type Power HAD EX CCD sensors (16:9 aspect ratio). It delivers high imaging quality performance such as high sensitivity (F1.1 at 2000 lx), high S/N ratio (63 dB) and low smear level (-140 dB).

- **2.5" Built-in LCD Panel**

The retractable 2.5" colour LCD monitor can be tilt freely so that it can help the shooting operation at high or low angle.

The LCD monitor displays camera picture with characters (like viewfinder), camera picture without characters, or Time Code & Audio Level Meter on black background.

- **Scene File Store on Memory Stick**

The DSR-450WSP can save up to 5 scene files in the camcorder memory and up to 100 scene files in the Memory Stick. The stored data in the Memory Stick can be transferred to the camcorder memory or vice versa, so that the setting data can be copied to other camcorders easily.

- **Assignable Buttons**

There are 4 assignable buttons available, the two on the side panel and the other two on the handle. Each button can assign a function which frequently requires instant operation, such as ATW or REC Start/Stop. For the two buttons on the handle, a slide cover is equipped in order to avoid mis-operation.

- **Programmable Gain**

The value of gain that is assigned to the setting of (H / M / L) of the Gain switch can be preset from -3, 0, 3, 6, 9, 12, 18, 24, 30 or 36 dB.

- **Electric CC Filter**

With the wide-band white balance amplifier circuit, the electric CC filter covers a wide range of colour temperature conditions without an optical CC filter.

By having this function, users do not need to care the colour temperature before activating auto white balance.

- **Auto-Tracing White Balance (ATW)**

This function automatically traces the white balance, which constantly changes as lighting conditions change. It is useful especially when there is no time to manually adjust the white balance, or when shooting objects move between indoor and outdoor locations.

- **Interval Recording (Time-lapse)**

Using the Interval recording function, you can create time-lapse videos for various specialized projects such as plant growth.

The interval time can be selected from 30 sec or 1 / 5 / 10 / 30 / 60 minutes, and the recording duration time from 0.5 / 1 / 1.5 / 2 / 5 / 10 / 30 sec or 1 / 5 / 10 minutes.

- **Versatile Interfaces**

The DSR-450WSP provides an analogue composite output as standard, with an SDI output board (CBK-SD01) as a plug-in option. An optional composite input board (CBK-SC01) is also available for pool feed applications.

- **High Power Video Light Connector**

A video light connector (max. 50W) and control switch are provided. You can set the switch to turn the light on and off automatically as you start and stop the VTR.

- **InfoLithium Battery Compatible**

The DSR-450WSP supports the information battery function. Using with BP-GL95/GL65 battery back, more precise and detailed information on remaining battery power is displayed on the viewfinder.

- **Camera Remote Control via RM-B150/B750**

Camera settings and basic VTR functions can be remotely controlled using an optional RM-B150 or RM-B750 Remote Control Unit via its 8-pin.

Technical Specifications

Generic Specifications	
● FF/REW time	Approx. 45 sec (with PDVM-40ME), 2 min 30 sec (with PDV-184ME)
General	
● Power requirements	DC 12V
● Power consumption	Approx. 17 W (with DC 12V power, REC mode, viewfinder off, LCD monitor off)
● Mass	Approx. 6.5 kg (14 lb 5 oz) (with viewfinder, microphone, BP-GL65 battery, Mini DVCAM cassette, VCL-917BY lens)
● Continuous operating time	Approx. 300 min. (with BP-GL95 battery, REC mode)
● Built-in LCD monitor	2.5-inch type colour (214,000 pixels)
● Viewfinder	1.5-inch type CRT, monochrome
Inputs/Outputs	
● Analogue composite input	BNC (with CBK-SC01)
● Genlock video input	BNC
● Audio input (CH1/2)	XLR-3 (x2), female
● Microphone input	XLR-3, female
● Time Code input	BNC
● SDI output	BNC (with CBK-SD01)
● i.LINK output	6-pin, IEEE1394 based
● Analogue composite output	BNC
● Audio output (CH1/2)	RCA pin (x2)
● Time Code output	BNC
● Monitor output	BNC
● Earphone output	Mini jack
● Lens	12-pin
● VF	20-pin
● Remote	8-pin
● Wireless microphone	7-pin
● Light	2-pin, DC 12V, max. 50W
● DC input	XLR 4-pin, male
● DC output	4-pin (for wireless microphone receiver), DC 12V (max. 0.2A)
Camera Performance	
● Pickup device	3-chip 2/3-inch type Power HAD EX CCD
● Aspect ratio	16:9/4:3 switchable

● Built-in filters	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND
● Lens mount	2/3-inch type Sony bayonet mount
● A/D conversion	12 bit
● Sensitivity	F11 (typical) (2000 lx, 89.9% reflectance)
● Minimum illumination	0.5 lx (F1.4 lens, +36 dB gain, shutter off)
● Smear level	-140 dB (typical)
● Video S/N ratio	63 dB (typical)
● Horizontal resolution	850 TV lines (4:3), 800 TV lines (16:9)
● Shutter speed	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s
● Slow Shutter	1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3.1, 1/1.6 s (1 to 8, 16 frames)
● Gain selection	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Video performance	
● Recording format	DVCAM / DV(SP) (25 Mb/s)

Record/playback time	
● DVCAM :	184 min (with PDV-184ME)
● DV(SP) :	276 min (with PDV-184ME)

Supplied Accessories	
● 1.5 inch Viewfinder	DXF-801
● Tripod adaptor	VCT-U14
● External microphone	
● Shoulder strap	

Accessories

Batteries and Power Supplies



AC-DN10
AC Adaptor/Charger



BC-M150
Battery Charger



BP-GL95
Rechargeable Lithium-ion
Battery Pack

Camera Adaptors



CA-WR855

Cases



LC-DS300SFT
Soft Carrying Case For DSR-
300p/500WSL



LC-H300
Carrying Case for DSR-
400/450WSL



LCR-1
CAMERA RAIN COVER
(VINYL)

Control Panels



RM-B150
Remote Control Unit

HDV & DVCAM



HVR-DR60
Portable Hard Disk
Recording Unit