

SONY



DSR-400P

DVCAM 2/3" 3CCD 4:3 Camcorder
without lens

'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-400PL is supplied without lens.

Features

2/3" Power HAD EX CCDs

The DSR-400P incorporates 2/3" type Power HAD EX CCD sensors (4:3 aspect ratio). It delivers high imaging quality performance such as high sensitivity (F11 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-400P 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.

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-400P 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.

Benefits

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-400P 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-400P 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-400P 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

Stockage des paramètres sur Memory Stick™

Vous pouvez mémoriser certains réglages sur le Memory Stick, qui peuvent ensuite être facilement rappelés. De plus, lorsque deux caméscopes ou plus sont utilisés lors du tournage, il est possible de copier les réglages d'un caméscope à l'autre grâce au Memory Stick afin de garantir l'homogénéité des couleurs.

New Mechanical Deck

The different mechanical deck is adopted on the DSR-400P compared with the DSR-390P, 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.

Technical Specifications

FF/REW time	Approx. 45 sec (with PDVM-40ME), 2 min 30 sec (with PDV-184ME)
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General

Power requirements	DC 12V
Leistungsaufnahme	Ca. 17 W (mit 12 V DC, REC-Modus, Sucher 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

Genlock video input	BNC
Audio input (CH1/2)	XLR-3 (x2), female
Microphone input	XLR-3, female
Time Code input	BNC
i.LINK output	6-pin, IEEE1394 based
Audio output (CH1/2)	RCA pin (x2)
Time Code output	BNC
Monitor output	BNC
Earphone output	Mini jack
Lens	12-pin
VF	20-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	4:3
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	920 TV lines
Shutter speed	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s
Gain selection	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Video performance

Recording format	DVCAM / DV(SP) (25 Mb/s)
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Record/playback time

DVCAM :	184 min (with PDV-184ME)
DV(SP) :	276 min (with PDV-184ME)

Supplied Accessories

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