

SONY

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DVW-970P

Digital Betacam Camcorder, 4:3/16:9 switchable,
new Power HAD EX™ CCD sensors

When high quality is your top priority

Digital Betacam has become the format of choice for the production of highest quality standard definition programmes. There is an installed base of over 99,000 products worldwide and the format is readily accepted by the world's most prestigious broadcasters. Digital Betacam camcorders, VTRs and players are in daily use around the world for productions where the ultimate standard definition quality is a critical requirement.

The DVW-970P camcorder is the most recent addition to the Digital Betacam family. It is the latest in a long line of broadcast camcorders and emphasises the continued commitment by Sony to the Digital Betacam format and its users.

This third generation Digital Betacam camcorder is widescreen switchable and uses a new generation of Power HAD EX™ CCDs to guarantee exceptional picture quality. Familiar ergonomics, robust construction and reliable operation are key features of the DVW-970P.

The ability to select between 50i (interlaced) and 25P (progressive) recording provides additional creativity to the production team, allowing the optimum picture "look" to be selected for each production.

Features

New Power HAD EX™ CCD Technology

Three 2/3 inch Power HAD EX™ CCDs provide a high sensitivity of F11 and a signal-to-noise ratio of 63dB. Smear is reduced to -145dB (typical)

Interlaced and progressive recording

The DVW-970P can record in both 625/50i interlaced mode and 625/25P progressive mode. This allows the camera operator to shoot either 50i "TV look" or 25P "Film look" pictures.

Please note that 24P recording is not provided in the 625/50 DVW-970P camcorder.

14 bit A/D conversion and Advanced Digital Signal Processing (ADSP)

The DVW-970P uses 14 bit A/D conversion to process captured images from the CCDs with great precision. This provides a more accurate reproduction of contrast in mid-to-dark tone and bright areas of the picture. Advanced Digital Signal Processing, using more than 30 bits for non-linear processing, also maintains the exceptionally high quality of image from the CCDs. The ADSP also provides sophisticated image control including, multi-matrix, triple skin tone detail and adaptive highlight control.

Ultimate sensitivity

The DVW-970P has a sensitivity of F11, and has a built-in slow shutter feature. This feature allows the camcorder to slow its shutter speed down to a 16 frame period to dramatically increase sensitivity when shooting in dark conditions. The slow shutter feature also allows motion blur to be used as a creative tool during acquisition.

High quality digital audio

In addition to great pictures, the DVW-970P also records superb quality sound. Four channels of digital audio are recorded at 20 bit resolution at a sampling frequency of 48kHz.

Compact, lightweight and low power consumption

The DVW-970P weighs approximately 5.4kg including viewfinder, microphone, BP-GL95 Li-ion battery and BCT-D40 Digital Betacam cassette. Power consumption has been reduced to approximately 28W by the use of latest-generation IC technology.

Long recording duration onto Digital Betacam cassettes

Up to 40 minutes of material can be recorded onto a BCT-D40 Digital Betacam cassette.

Picture Cache recording

It's always annoying to miss a great shot, especially when shooting sports or wildlife footage. With the DVW-970P you have an additional chance to capture the action even if it occurred before you started recording. An optional CBK-MB01 board can be installed into the DVW-970P to provide picture cache recording. This allows you to capture the (up to) 8 seconds

of material immediately before you pressed the record button.

TruEye Processing

TruEye virtually eliminates hue distortion, especially in extreme lighting conditions. TruEye processes video data in a similar way to the human eye - processing brightness, hue and saturation. This significantly improves the reproduction of natural skin tones.

Auto Trace White

Auto Trace White (ATW) is a feature that automatically adjusts the white balance as lighting conditions change. This is ideal when shooting in rapidly changing lighting conditions (for example, when moving from an indoor to an outdoor location).

Multi Matrix function

Multi Matrix provides further in-camera creative control and can be used to match colourimetry during multiple camcorder shoots. It is also effective for manipulating the hue and saturation of specific selected colours within a scene. One example would be to adjust the hue and saturation of a flower petal without changing other colours within the picture.

Choice of video outputs

The DVW-970P has a composite video output as standard, and an optional SDI output (CBK-SD01) can also be installed.

Slot-in wireless receiver

You can slot a Sony wireless receiver directly into the chassis of the DVW-970P. This maintains balance, without compromising the compact ergonomic design of the camcorder. A Sony WRR-855A/B can be used.

Memory Stick™ for storage of camcorder set-ups

A Memory Stick slot is provided for the storage and recall of set-up parameters. You can store your favourite camcorder set ups, camcorder settings for

individual scenes and the settings of the user-assignable switches for rapid configuration of the camcorder at a later date.

Benefits

High quality pictures for your prestige productions

Digital Betacam was the first recording format from Sony to use data compression of the digital video signal. A very mild compression ratio of around 2.1 was chosen to ensure very high quality pictures, especially for productions requiring complex multi-generation editing.

Widescreen operation for future-proof acquisition

With widescreen production now the norm rather than the exception, the ability to record 16:9 pictures ensures a long shelf life for your programme.

Great track record of international use

Digital Betacam camcorders and VTRs have been used to produce thousands of great programmes since the format was introduced in 1993. Over 96,000 units have been sold, and camera operators shooting with Digital Betacam have the confidence of knowing that the world's most prestigious broadcasters will accept their pictures.

Peace of mind even in the toughest environments

Sony has an unrivalled track record in the manufacture of camcorders for broadcast production. The same meticulous design techniques have been applied to the DVW-970P, guaranteeing a great combination of performance, ease-of-use and reliability.

Technical Specifications

Supplied Accessories	
Monaural Microphone	
Shoulder Belt	

Lens Cap	
Viewfinder	
Operation Manual	

Accessories

Option Boards and Modules



CBK-MB01

Picture Cache Board for DVW-970P

Viewfinders

BKW-401

Viewfinder Rotation Bracket

Batteries and Power Supplies



AC-DN10

AC Adaptor/Charger



BC-L70

Li-ion Battery Charger



AC-DN2B

AC Adapter (150W output) and Lithium-Ion battery charger



BC-M150

Battery Charger



BP-GL95

Rechargeable Lithium-ion Battery Pack

Tripods



VCT-14

TRIPOD ADAPTOR FOR PORT. CAMERAS/
CAMC.

Lapel (ECM-series)

ECM-670

Super cardioid microphone for video production.

Wireless Systems



WLL-CA50

MPEG Wireless Adaptor for Sony Camcorders



WLL-RX55

Wireless Camera Receiver for use with the WLL-CA50 or WLL-CA55 Wireless camcorder adaptor

Cases

LC-777

Hard shell carrying case for Digital Betacam camcorders