

SONY

HDW-750P

HD camcorder, offering 2.2 million pixels per colour, HDCAM recording and is switchable between 50i and 25P scanning.

Setting the standard for High Definition production

Since first appearing on the market, the HDW-750P camcorder has become associated with the very best in quality programming, helping establish HDCAM as the preferred High Definition format worldwide.

The HDW-750P puts all the advantages of shooting High Definition at 25P/50i into the hands of the programme maker, maximising creative opportunities and control without sacrificing portability or battery life. It is an extremely compact and lightweight design, with a robust and reliable construction. Adopting a 2.2 million-pixel FIT CCD, and Advanced Digital Signal Processing (ADSP), the camcorder ensures superb picture quality and low-power consumption.

The HDW-750P makes it easier than ever to capture pictures that will satisfy the most exacting producer. By shooting 25 frames per second in progressive scan mode (25P), your shots will share "filmic" motion portrayal that can add a subjective richness to improve both the quality and marketability of your production. And new for 2005/6 is a new version of camcorder software: Version 2. This boosts the latitude of the camcorder to give an even more film-like image, allowing more detail to be seen in the highlight and low-light areas of the picture.

With the HDW-750P, you can also shoot 50 fields per second interlaced (50i) as a natural partner to the PAL world. The choice is yours.

So whether you're post producing in Standard Definition and want to maximise image quality upfront, or following an end-to-end HD 25P workflow, the HDW-750P is the natural affordable choice to take you into the exciting world of High Definition.

Features

HAD sensor technology

The HDW-750P uses Power HAD sensor technology incorporating the latest FIT sensor and on-chip lens structure. Three 2/3-inch FIT CCDs each with 2.2 million-pixels provide excellent imaging quality, and are based upon the 1920 x 1080 CIF (Common Interchange Format).

Choice of Progressive or Interlace recording

Either 50 interlace or 25 Progressive (PsF) mode can be selected, for "TV look" (interlace) or "Film look" (progressive) pictures.

Advanced Digital Signal Processing

ADSP technology with 10 bit A/D conversion ensures excellent tonal reproduction, and keeps power consumption down to 34 Watts to guarantee long battery life.

Ultimate sensitivity

The HDW-750P has a sensitivity of f10 at 2000 Lux. When fitted with an optional HKDW-705 Slow Shutter board, the camcorder can slow its shutter speed to a 64 frame period. This dramatically increases sensitivity and allows pictures to be shot at a minimum illumination of 0.003 Lux. This allows camera operators to shoot images in extremely dark environments. The Slow Shutter board also allows motion blur to be used as a creative tool during acquisition.

Even better looking, film-like images with Version 2 software

New Version 2 software for the HDW-750P offers a significant boost in the latitude of the camcorder to give a more film-like dynamic transfer characteristic. This allows far more detail to be seen in the highlight and lowlight areas of the image.

Long record duration onto HDCAM cassettes

The HDW-750P records up to 48 minutes onto a small HDCAM tape. This exceeds the record duration of many standard definition camcorders.

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.

Multi Matrix

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.

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). Conventional Auto White Balance is also available.

Turbo Gain

Maximum 42dB gain allows shooting to 0.15 lux. In 25P mode, and with no shutter this equates to an ISO of around 77,000.

Picture Cache recording

It's always annoying to miss a great shot, especially when shooting wildlife footage. With the HDW-750P you have an additional chance to capture the action even if it occurred before you started recording. An optional HKDW-703/1 can be installed into the camcorder to provide picture cache

recording. This allows you to capture up to 8 seconds of material immediately before you press the record button.

Time Lapse

The HKDW-703/1 also provides Time Lapse Recording. In MANUAL mode, 1 to 8 frames are recorded each time the REC button is pressed. In AUTO mode, the overall recording time is set (e.g. 10 minutes) along with the playback time on tape (e.g. 10 seconds). Using the picture cache to achieve Time Lapse reduces the mechanical wear to the record mechanism.

Dual optical filter wheel

The HDW-750P is equipped with a single optical filter wheel. You can choose from the following Neutral Density (ND) settings: CLEAR, 1/4ND, 1/16ND and 1/64ND, and the following Colour Correction (CC) settings A:CROSS, B:3200K, C:4300K and D:6300K

HD-SDI output

No adapter is needed to monitor your pictures at the highest quality level or to record externally directly from the camera.

Optional HD to SD down conversion

The HKDW-702/1 Down Converter board offers simultaneous output of either SDI or composite PAL via a dedicated BNC connector, in addition to the HD-SDI output. Furthermore, the 'TEST OUT' facility offers a PAL output with the choice of viewfinder characters inserted.

Slot-in wireless receiver

You can slot a Sony wireless receiver directly into the chassis of the HDW-750P. This adds wireless receiver functionality without compromising the compact ergonomic design of the camcorder. A Sony WRR-855A/B can be used.

Programmable menu system

You can customise the menu system of the camcorder, by copying and pasting menu items to your personal menu page. These settings can be stored on a Memory Stick.

Extended battery life

You can record for up to 135 minutes when using the latest BP-GL95 Info Li-Ion battery. This meets the critical need for a long operating time. The

battery also communicates with the camcorder to provide exact remaining capacity.

Memory stick

Allows storage of up to 100 user files and 100 scene files. A user file stores camera operating parameters (e.g. assignable switch parameters). A scene file stores image related parameters (white balance, etc). Five scene files are stored in the camcorder itself. This data file facility also allows easy software upgrades which can be used to store UMID data such as good shot markers and GPS data.

Rugged and ergonomic design

The design of the HDW-750P is based on years of Sony experience in camera design and provides a high level of mobility and balance to minimise fatigue in all shooting conditions. Combined with the viewfinder, battery, cassette and microphone, the total weight is only 5.4 Kg.

Benefits

Superb High Definition pictures

The HDW-750P acquires pictures in 1080-line resolution, providing an unforgettable High Definition viewing experience for your audience.

Increased marketability of your programmes

HDCAM has achieved an enviable reputation for quality, and programmes shot in HDCAM are accepted by many of the world's most prestigious broadcasters. Shooting in HDCAM opens up new opportunities for international co-production and distribution

Peace of mind for High Definition post production

Over 27,000 HDCAM VTRs and camcorders are in use worldwide, and the number of post houses equipped with HDCAM grows every day. You can relax in the knowledge that there is an HDCAM facility close by to add the finishing touches to your project.

Easy integration with Standard Definition

Today more and more programme makers are shooting HDCAM, with many of them using existing SD suites for post production. This approach provides many advantages. These include the lower cost associated with SD post production, and the benefit of retaining an exceptionally high quality HDCAM original recording for future distribution opportunities. And even when downconverted to SD, pictures from HDCAM camcorders will look noticeably better than those originated in SD.

Differentiation in a crowded market

The HDW-750P has become associated with the very best in quality programming, helping establish HDCAM as the preferred High Definition format worldwide. In today's multi-channel world, shooting in HDCAM ensures that your pictures stand out to grab the attention of the viewers.

Ease-of-use for minimum re-training

The latest in a long line of digital camcorders from Sony, the HDW-750P retains the ergonomic design and familiar operation for which Sony camcorders have become renowned. With the HDW-750P, you avoid expensive operational re-training and can generate great pictures from day one.

Technical Specifications

General

Mass	Approx. 5.4 kg (11lb. 14oz) with cassette, BP-L60S battery, viewfinder and microphone
Power requirement	DC 12V (+5.0 V/-1.0 V)
Power consumption	34 W (With 12 V power supply, REC mode, without viewfinder)
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	25% to 80% (Relative humidity)
Continuous operating time	Approx. 135 min (With BP-GL95)

Inputs/outputs

Genlock video input	BNC (x1), 1.0 V p-p 75 ohm
Time code input	BNC (x1), 0.5 V to 18 V p-p 10 Kohm

Audio CH1/CH2 input	XLR 3-pin type (Female) (x2), -60 dBu/+4dBu selectable, high impedance, balanced
Mic input (Stereo)	XLR 5-pin type (Female) (x1), -60 dBu
HD-SDI output	BNC (x1), 0.8 V p-p, 75 ohm, unbalanced
VBS/SDI output (with HKDW-702 fitted)	BNC (x1), 0.8 V p-p, 75 ohm, unbalanced
Audio output	XLR 5-pin Type (Male) (x1), 0 dBm
Time code output	BNC (x1), 1.0 V p-p 75 ohm
TEST output	BNC (x1), 1.0 V p-p 75 ohm
DC input	XLR 4-pin type (Male) (x1), 11 to 17 V DC
DC output	4-pin (for wireless microphone receiver) (x1), 11 to 17 V DC, Max. 100mA
Lens	12-pin (x1)
Remote	8-pin (x1)
Earphone	Mini-jack (x2), 8 ohm, -infinity to -18 dBs variable

Please download the HDW-750P product brochure from the brochure section for more specifications

Supplied Accessories

Shoulder belt
Stereo microphone
Operation manual (booklet)
Viewfinder (HDVF-20A)

Accessories

Option Boards and Modules



HKDW-705

Slow Shutter Board

Viewfinders



HDVF-C30W

Multi-format HD Colour LCD Viewfinder

BKW-401

Viewfinder Rotation Bracket

Viewfinders and Hoods

HDVF-C730W

6" Multi-format HD Colour LCD Viewfinder

Tripods



VCT-14

TRIPOD ADAPTOR FOR PORT. CAMERAS/CAMC.

LMD Production Monitors



LMD-9050

LCD 8.4-inch monitor

Batteries and Power Supplies**AC-DN2B**

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

**AC-DN10**

AC Adaptor/Charger

**BC-M150**

Battery Charger

**BC-L70**

Li-ion Battery Charger

**BP-GL65**

Battery Pack

Lapel (ECM-series)**ECM-678**

Electret Condenser Shotgun
Microphone