

SONY



playback

HDW-D1800

HDCAM video tape recorder with CineAlta record feature and MPEG IMX and Digital Betacam

A high definition VTR for prestige and mainstream programme production



Sony recognises that your needs as a programme maker will vary depending upon the type of programme being made. This has driven the development of a multi-format high definition product offering, including HDV for entry-level HD operation, HDCAM for mainstream and prestige productions and HDCAM SR for productions where only the ultimate quality will suffice.

HDCAM has long been associated with the creation of the most prestigious movies, commercials and television programmes. The recent expansion of the HDCAM product line up has transformed the economics of HD for mainstream television production, with models such as the HDW-730S HDCAM camcorder making HD acquisition accessible to those working on standard definition budgets. And this expansion now continues with the addition of the even more affordable HDW-D1800 VTR to the HDCAM line-up.

The HDW-D1800 operates at the frame rates used for prestige and mainstream content creation and distribution. It offers HDCAM recording and playback at 1080/50i, 1080/59.94i, 1080/25P, 1080/29.97P, 1080/23.98P and 1080/24P.

The HDW-D1800 is ideal as part of an end-to-end HDCAM production chain. It also makes business sense even when post production and programme distribution remains at 625/50 standard definition. An inbuilt HD to SD downconverter provides a standard definition output from your high quality HDCAM original recordings. Compatible replay of MPEG IMX and Digital Betacam tapes also helps smooth your transition to the world of high definition.

Features

HDCAM recording and playback

HDCAM uses intra-frame DCT compression using a compression ratio of about 7:1. There are four channels of 48kHz digital audio at 20-bit resolution.

Selectable frame rates

The HDW-D1800 can record and replay at 1080/50i, 1080/59.94i, 1080/25P, 1080/29.97P, 1080/23.98P and 1080/24P.

Compatible replay of standard definition digital cassettes

Both 625/50 and 525/50 MPEG IMX and Digital Betacam cassettes can be replayed.

Built-in up and down converters

The HDW-D1800 has a built in HD to SD downconverter and a built-in SD to HD upconverter. Downconversion allows tapes shot in HDCAM to be output in standard definition for subsequent post production or distribution. The downconverted image can be squeezed or cropped within the VTR for display on a 4:3 monitor.

Optional 1080/50i to 720/50P converter

An optional HKDW-104 board can be installed into the HDW-D1800. When replaying an HDCAM cassette recorded at 1080/50i or 1080/25P, the HKDW-104 can convert the replayed material to 720/50P and output it from the VTR. Digital Betacam and MPEG IMX material can also be unconverted to 720/50P. 1080/59.94i material can be converted to 720/59.94P by the HKDW-104, and 3:2 pull-down conversion from 1080/23.98P to 1080/59.94i or 720/59.94P is also provided.

New control panel with built-in LCD display

The HDW-D1800 offers a great combination of features and cost. A simplified control panel includes a built-in LCD display for on-the-spot picture confirmation and

access to operational set-up menus. Please note that the control panel cannot be extended from the VTR, and that the HKDW-101, BKMW-102 and BKMW-103 control panel, control panel case and control panel extension kit cannot be used with the HDW-D1800.

Editing via 9-pin remote control

To keep costs low, the edit control buttons have been removed from the front panel. Assemble, insert and pre-read editing is provided via the 9-pin RS-422 interface on the rear panel of the VTR. When used in pre-read mode, the HDW-D1800 can be used to insert titles into video material using a single VTR.

Broadcast quality slow motion

The HDW-D1800 has DT (Dynamic Tracking) heads as standard. Broadcast quality pictures can be replayed in the range -1 to x2 speed from HDCAM tapes, and from -1 to x3 speed when replaying MPEG IMX and Digital Betacam cassettes.

High quality picture search and jog

Selecting edit points is easy with the HDW-D1800. Pictures and sound can be searched at up to x50 normal speed.

Optional HDV input via i.LINK

When fitted with an optional HKDW-105 board, the HDW-D1800 can receive HDV material via an i.LINK (IEEE 1394) interface. Material shot with an HDV camcorder can easily be incorporated into an HDCAM edit using this option.

Compact chassis

The HDW-D1800 uses a 4U chassis design, in common with MPEG IMX VTRs and the DVW-M2000P series Digital Betacam VTRs.

Surround sound

Both Dolby-E and AC-3 are handled as standard.

Benefits

Superb High Definition pictures

HDCAM VTRs are in use around the world for creation of the most prestigious programmes. Even though the

HDW-D1800 brings a new level of affordability to the HDCAM line-up, there has been no compromise in picture or sound quality. The HDW-D1800 produces great quality HDCAM pictures and is the ideal companion to the HDW-F900R, HDW-750P and HDW-730S HDCAM camcorders.

Unlimited opportunities for international productions

With 1080/50i, 1080/59.94i, 1080/25P, 1080/29.97P, 1080/23.98P and 1080/24P switchability, the HDW-D1800 increases opportunities for international production and distribution. You can use the HDW-D1800 to produce a travel programme for a European audience one day, and a music programme for transmission in the USA or Japan the next.

Business benefits today and tomorrow

When used in an end-to-end high definition production chain, the HDW-D1800 maintains the exceptional quality of HDCAM from shooting to playout. The HDW-D1800 also makes business sense when post production and distribution is completed in standard definition. A built-in downconverter within the VTR creates standard definition pictures from HDCAM tapes. These SD pictures can then be replayed into your existing standard definition edit suite for subsequent post production. And users today are recognising that pictures shot in HD and post produced in SD provide a better on screen look than those originated in standard definition.

Peace of mind for High Definition post production

Over 27,000 (need to insert latest IBC sales figure here) HDCAM VTRs and camcorders have been sold worldwide, and the number of post houses and broadcast facilities equipped with HDCAM grows every day. HDCAM VTRs have a great track record for rugged and reliable operation around the world.

Ease-of use for minimum re-training

The latest in a long line of digital VTRs from Sony, the HDW-D1800 retains the ergonomic design and familiar operation of formats such as Digital Betacam. With the HDW-D1800, you avoid expensive operational retraining and can generate great pictures from day one.

Technical Specifications

Power Requirements:	AC 100 V to 240 V, 50/60Hz
Operating Temperature:	+5C to +40C (+41F to +104F)
Storage Temperature:	-20C to +60C (-4F to +140F)
Humidity:	25% to 90% (relative humidity)
Mass:	Approx, 23 kg
Dimensions:	427mm x 174mm x 544mm
Recording Format:	HDCAM (1080/50i, 59.94i, 25P, 29.97P, 23.98P, 24P)
Replay Formats:	HDCAM (1080/50i, 59.94i, 25P, 29.97P, 23.98P, 24P) Digital Betacam MPEG IMX
HDCAM Recording Duration:	Up to 155 minutes (48Hz) with L-cassette Up to 149 minutes (50Hz) with L-cassette Up to 124 minutes (59.94Hz) with L-cassette Up to 50 minutes (48Hz) with S-cassette Up to 48 minutes (50Hz) with S-cassette Up to 40 minutes (59.94Hz) with S-cassette

Video Input Signals

Analogue reference (2)*	1 x BNC with loop through
HD-SDI:	1 x BNC (SMPTE 292M) 1.485Gbps
i.LINK (HDV) with HKDW-105:	1 x 4-pin
Analogue reference:	1 x BNC with loop through

Video Output Signals

Analogue composite:	3 x BNC (one with character display)
SDI:	3 x BNC (one with character display)
HD-SDI:	3 x BNC (one with character display)

Audio Input Signals

Analogue Audio:	2 x XLR 3-pin (CH 1 and 2)
Digital Audio (AES/EBU):	2 x BNC (CH1/2 and CH3/4)
Time Code:	1 x XLR 3-pin

Audio Output Signals

Analogue Audio:	2 x XLR 3-pin (CH 1 and 2)
Digital Audio (AES/EBU):	4 x BNC (CH1/2, CH3/4, CH5/6*, CH6/7*)
Time Code:	1 x XLR 3-pin
Monitor Output:	2 x XLR 3-pin

Remote Control

RS-422A In:	D-sub 9-pin
RS-422A Out:	D-sub 9-pin
RS-232C:	D-sub 9-pin
Video Control:	D-sub 9-pin
Parallel Remote:	D-sub 50-pin

Accessories

Tripods



RMM-131

RACK MOUNT KIT FOR UVW,DSR
AND MSW VTR