

SONY



## HVR-M25AE

HVR-M25AE Compact HDV VTR

### A feature rich HDV VTR for professionals

In addition to providing HDV1080i recording and playback, the HVR-M25AE now features the HDV native progressive format capability, which provides stunning 1080p images at 24, 25 or 30 frames per second.\* Along with support for both DVCAM and DV formats, the HVR-M15AE offers users the ability to work with both standard definition and high definition content.

The HVR-M25AE is also compatible with standard size cassettes. The DigitalMaster  $\alpha\zeta\phi$  cassette can provide over 4 hours recording of HDV content - the ideal choice when longer recording times are required.

The HVR-M25AE is designed for professional use - and includes a convenient, integrated 16:9 LCD screen for content monitoring, and HDMI (High Definition Multimedia Interface) for simple connectivity to HD consumer displays for added flexibility. As with all HDV products, the HVR-M25AE has the added benefit of 2 year Silver Support warranty - providing additional piece of mind.

"24p" means "23.98p" video signal and "30p" means "29.97p" video signal.

### Features

#### HDV/DVCAM/DV Compatible

The HVR-M25AE, along with offering HDV 1080i recording and playback now offers progressive recording format. With this format, called HDV native progressive format, 1080p images at 24, 25 or 30 frames per second can be recorded.

The HVR-M25AE enables users to play back 1080p images recorded with camcorders featuring this format and to record with i.LINK input. DVCAM and DV recording and play back for existing SD workflows is also available, providing full flexibility to record and play back either

Standard or High Definition depending on production needs.

#### Dual-size Cassette Mechanism

The HVR-M25AE accepts both standard and mini size HDV, DVCAM, and DV cassettes without using any special adaptor. It allows for HDV recording for up to 276 minutes with a DigitalMaster™ Cassette - ideal when longer recording times are required.

#### Down-conversion Capabilities

The HVR-M25AE allows down conversion from HDV1080i format. Analogue outputs (component/S-Video/Composite) and the i.LINK interface can provide a standard definition signal in either DVCAM or DV if required.

#### 50/60Hz Switchable

The HVR-M25AE is compatible with both 50 and 60 Hz use - providing greater user flexibility to make and edit productions on a worldwide basis.

#### HDV/DV IN TC

The HVR-M25AE is equipped with HDV/DV IN TC, enabling time code synchronization with external equipment - ideal when dubbing tapes or recording to tapes with material edited by nonlinear editing systems.

#### 2.7" 16:9 LCD Monitor

The HVR-M25AE has a 2.7" wide LCD panel enabling operators to check 16:9 aspect pictures images, audio level meter and set-up menu. The newly developed "Clear Photo LCD plus" further improves the visibility of previous LCDs, offering more detailed and colorful photography of objects in dark or bright places. The new colour temperature of 6500K ensures compatibility with other monitoring solutions.

### HDMI Output

HDMI (High Definition Multimedia Interface) is a specification for the input-output interface of uncompressed HD digital video and multi-channel audio, and has become the standard for HDTV and other CE devices. As such the HVR-M25AE can be easily connected to such devices for added user flexibility.

### Duplicate Plus

The Duplicate Plus is a dubbing function that can duplicate the tape with timecodes via an i.LINK interface. By using the Duplicate Plus button it helps to make a work tape, which contains the exact timecode that the original source tape contains.

### Edge Crop Adjust

The HVR-M25AE is able to adjust the edge crop position when down converting from HD (16:9 aspect ratio) to SD (4:3 aspect ratio). By displaying the edge crop marker on the monitor, you can check the crop position on the LCD monitor before down converting.

### Custom Repeat

The HVR-M25AE has an Auto Repeat function that enables it to repeatedly play back a program. In addition, the HVR-M25AE has a Custom Repeat function that allows operators to set a repeat number of times, a repeat interval, and a start time of repeat.

### Time code settings

The time code can be preset using any number in H/M/S/F (hours/minutes/seconds/frames), for accurate tape-position information.

### Assign Buttons

Other than the default functions, frequently used functions can be assigned for convenient and customized operation.

## Benefits

### An affordable way to enjoy High Definition

Through the HDV format Sony's HVR-M25AE allows you to playback and record High Definition pictures on a standard DV format cassette - providing both a highly cost effective format and full 1080 line resolution.

### Not just for HDV

With the Sony HVR-M25AE, you are able to switch between DV, DVCAM and HDV recording and playback giving you full flexibility to record and review in either Standard or High Definition depending on your chosen footage.

### See as you work

The high resolution integrated 16:9 LCD monitor can be used on the HVR-M25AE to view the images as they are recorded or to check the playback picture - ideal as a quick reference tool.

### Easy integration to the way you already work. Migration to HD workflow or using existing SD workflow, you choose.

Continuity of workflow can be very important. Enjoying the benefits of the HVR-M25AE does not mean that you need to change the way you work. Like DVCAM VTR's, a full range of connectivity is available for external devices including Composite In/Out, S-video In/Out, Component Out and i.LINK (IEEE1394). In addition, you can choose to convert your HDV footage with the in-built down-converter to output in Standard Definition if required.

### A comprehensive support service

Just like the rest of the HDV range, the HVR-M25AE benefits from two years Silver Support warranty as standard providing a unique after-sales care programme offering enhanced support and service.

## Technical Specifications

### --Recording/playback performance--

#### Recording format

HDV	HDV1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/30p
DVCAM / DV SP	DVCAM, DV SP 480/60i (NTSC), 576/50i (PAL)

#### Playout format

HDV	HDV1080/60i, 1080/50i, 1080/24p, 1080/25p, 1080/30p
DVCAM / DV SP	DVCAM, DV SP 480/60i (NTSC), 576/50i (PAL)
Playout video signal	1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL), 480/60P, 576/50P, 720/60P, 720/50P

Tape speed	HDV/DV SP Max. 18.812 mm/s
Playback/recording time	DVCAM Max. 28.218 mm/s
	HDV/DV SP Max. 276 min with PHDV-276DM cassette Max. 63 min with PHDVM-63DM cassette
Fast forward/rewind time	DVCAM Max. 184 min with PHDV-276DM cassette Max. 41 min with PHDVM-63DM cassette
	Approx. 2.5 min with PHDV-276DM cassette

**--Input/output connectors/devices--**

S-video input/output	Mini-DIN 4pin x 2 Y : 1Vp-p , 75ohm unbalanced, sync negative Sync signal : 0.286Vp-p (60i / NTSC) , 0.3Vp-p (50i / PAL) Chrominance signal : 0.286Vp-p (60i / NTSC),(burst, 75ohm) , 0.3Vp-p (50i / PAL),(burst, 75ohm)
Component video output	BNC x 3 Output at 480i NTSC With[BETACAM] selected in [480i LEVEL] of the [IN/OUT REC] menu Y : 1 Vp-p (0.286Vp-p sync negative, output impedance 75ohm unbalanced) Pb / Cb / B-Y , Pr / Cr / R-Y : 0.7Vp-p (output impedance 75ohm unbalanced) (75% color bar with 7.5IRE setup) With[SMPTE] selected in [480i LEVEL] of the [IN/OUT REC] menu Y : 1 Vp-p (0.3Vp-p sync negative, output impedance 75ohm unbalanced) Pb / Cb/B-Y , Pr / Cr / R-Y : 0.7Vp-p (output impedance 75ohm unbalanced) (100% color bar with no setup) Output with other settings Y : 1 Vp-p (output impedance 75ohm unbalanced) Pb / Cb / B-Y , Pr / Cr / R-Y : 0.7Vp-p (output impedance 75ohm unbalanced) (100% color bar with no setup) 480i / 480p : Y : with 0.3Vp-p sync negative 1080i / 720p : Y / Pb / Pr : with 0.6Vp-p 3-level sync
i.LINK	6-pin
Digital uncompressed output	HDMI Connector x 1
Phones	Stereo minijack ( 3.5 mm)
LANC	Stereo mini-minijack ( 2.5 mm)
Control S	Stereo minijack ( 3.5 mm)
Audio input	RCA x2, stereo Input level : -10 / -2 / +4dBu, input impedance : min. 47 ohm unbalanced, max Input level : -10 : +18dBu (approx . 6Vrms) , -2 : +24dBu(approx . 12.5Vrms), +4 : +30dBu (approx . 25Vrms)
Audio output	RCA x2, stereo impedance : max. 1k/ohm unbalanced, Output level : -10dBu (=full bit -20dB) impedance 47 ohm unbalanced 60i, -10dBu (=full bit -18dB) impedance 47 ohm unbalanced 50i
LCD monitor	2.7-inch type, approx. 211,200 dots (960 x 220), Clear Photo LCD Plus
Video input/output	BNC x1/BNC x1 1Vp-p , 75ohm unbalanced, sync negative Sync signal : 0.286Vp-p (50i / NTSC) , 0.3Vp-p (60i / PAL) Burst signal : 0.286Vp-p (50i / NTSC) , 0.3Vp-p (60i / PAL)

**--General--**

Mass	Approx . 4.4 kg (9 lb. 12 oz)
Power requirements	AC 220-240 V, 50 Hz
Power consumption	13 W (playback mode with LCD monitor on)
Operating temperature	5 to 40°C (41 to 104°K)
Storage temperature	-20 to +60°C (-4 to 140°K)

**Supplied Accessories**

Operation Manual
Cleaning Cassette
2 x AA size batteries
AC Power Cord

RMT-DS7

New Remote Commander