



HVR-Z1E

HDV 1/3" 3CCD Handheld Camcorder

Affordable migration to High Definition



Providing HDV with the 1080i Standard and joining the existing DVCAM range, the HVR-Z1E offers users an affordable migration path from Standard Definition whilst retaining the popular DVCAM benefits such as ease of use and i.LINK (IEEE1394) connectivity. In addition to its compact size, the HVR-Z1E boasts a number of features over consumer-oriented products making it ideal for the professional user.

Features

HDV / DVCAM / DV Switchable

Providing professional users with the flexibility to choose the format that suits the needs of their production and offering an easy migration from a Standard Definition environment.

Built-in converter to take HDV images to Standard Definition

The flexibility to film your footage in HDV and use the camera's down-converter to output Standard Definition pictures if required.

50Hz / 60Hz (PAL / NTSC) Switchable

Allowing you to make your productions on a worldwide basis, without the need for two separate camcorders with each standard.

2ch Audio XLR Inputs

The HVR-Z1E offers the recording of audio by providing both an in-built stereo microphone and XLR inputs for an external microphone supplying +40V phantom power.

2ch Independent Audio Rec Level Control

Intuitive control of audio recording level is possible with independent 2-channel dials.

Time Code Preset

Supports professional operation with flexible Time Code and User settings.

B/W & Colour Switchable Viewfinder

Allowing you to choose either a colour display or Black & White display on the Viewfinder depending on your preference.

Simultaneous Operation of LCD Panel & Viewfinder

Allowing you greater flexibility to focus shots accurately via Viewfinder while simultaneously framing images via the fold-out LCD Panel.

6 Assign Buttons

6 Assign Buttons are prepared to allow you to customise your camera. 6 frequently used functions including Hyper Gain, AE Override, White Balance Level for Outdoor, and Safety Zone Marker can be selected from over 10 available parameters.

Six Assign Buttons

Functions frequently used in the field can be assigned to six Assign Buttons (push buttons), allowing operators to make rapid changes under field conditions.

Benefits

An affordable way to enjoy High Definition

Through the HDV format Sony's HVR-Z1E allows you to capture High Definition pictures on a standard DV format cassette - providing both a highly cost effective format and full 1080 line resolution.

The ability to choose the most appropriate recording format for your production

With the Sony HVR-Z1E, you are able to switch between HDV, DVCAM and DV recording giving you full flexibility to record in either Standard or High Definition depending on your production needs.

Designed for Professional Use

As a professional product, Sony recognises that your needs are different to that of a consumer. As a result the

HVR-Z1E incorporates more than 40 extra functions over the consumer camcorder HDR-FX1E to help support you and your production needs.

Easy integration to the way you already work - convert from HDV to Standard Definition if required.

Continuity of Workflow can be very important. Enjoying the benefits of the HVR-Z1E does not mean that you need to change the way you work. Like DVCAM, i.LINK (IEEE1394) provides connectivity to PC based editing systems. In addition, you can choose to shoot in HDV and use the in-built down-converter to output in DVCAM allowing editing and final production to be carried out in Standard Definition in the usual way.

Cinema-look Shooting

The HVR-Z1E offers the capability to provide a cinema-look to your production images using Cineframe™ 25 Mode (25 frame progressive-look effect) and 2-mode Cinematone Gamma™.

AC Adaptor/Charger included as standard

AC Adaptor/Charger AC-VQ850 is supplied as standard with the HVR-Z1E providing great value for money

Technical Specifications

Lens	Carl Zeiss Vario-Sonnar T* zoom lens, 12x (optical) f = 4.5 to 54 mm f = 32.5 to 390 mm (*2) at 16:9 mode f = 40 to 480 mm (*2) at 4:3 mode F = 1.6 to 2.8, filter diameter: 72 mm
Built-in filter	1/6 ND, 1/32 ND
Focus	Auto, manual (focus ring/infinity position), one push auto
Imaging device	3-chip 1/3-inch type CCDs with a 16:9 aspect ratio
Picture elements	Approx. 1,070,000 pixels (effective), approx. 1,120,000 pixels (total)
White balance	Auto, one-push auto, indoor (3200 K), outdoor (5800 K ±7 steps)

Shutter speed

60i/NTSC mode	1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 s
50i/PAL mode	1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000 s
Exposure	Auto, manual
Gain	0, 3, 6, 9, 12, 15, 18 dB (adjustable for H, M and L gain positions)
Minimum illumination	3 lx with F1.6 at 18 dB
Recording format	1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL)
Play out/Down conversion format	1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL), 480/60p, 576/50p,

Tape speed

HDV/DV SP	Max. 18.812 mm/s with PHDVM-63DM cassette
DVCAM	Max. 28.218 mm/s with PHDVM-63DM cassette

Playback/Recording time

HDV/DV SP	Max. 63 min with PHDVM-63DM cassette
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DVCAM	Max. 41 min with PHDVM-63DM cassette
Fast forward/Rewind time	Approx. 2 min 40 s with PHDVM-63DM cassette
Audio/Video input/output	AUDIO/VIDEO jack x1
S-video input/output	Mini-DIN 4-pin x 1
Component video output	COMPONENT OUTPUT jack
i.LINK	4-pin
XLR audio input	XLR 3-pin female x 2, 327 mV, -60 dBu: 3 k Ω , +40 dBu: 10.8 k Ω , power supply: approx. 40 V
Headphone	Stereo minijack (3.5 mm)
LANC	Stereo mini-minijack (3.5 mm)
Color LCD viewfinder	0.44-inch type, approx. 252,000 pixels (1120 x 225), hybrid type
Color LCD monitor	3.5-inch type, approx. 250,000 pixels (1120 x 224), hybrid type
Microphone	Stereo type, noise reduction on/off
Mass	Approx. 2.1 kg (4 lb 10 oz) (camcorder only)
Power requirements	DC 7.2 V (battery pack)

Power consumption

HDV	Approx. 8.0 W (recording mode with LCD viewfinder on)
DVCAM/DV	Approx. 7.6 W (recording mode with LCD viewfinder on)
Operating temperature	0 to 40 °C (32 to 104 °K)
Storage temperature	(*2) These values are calculated to be equivalent to the 35 mm film.

Supplied Accessories

Size AA (R6) battery
Shoulder trap
Shoe adaptor
RMT-841 wireless Remote Commander
Power cord
Operating instructions
NP-F570 InfoLITHIUM rechargeable battery pack
Lens hood
Large eyecap
Connecting cord
Component video cable
Cleaning cassette
AC-VQ850 AC adaptor/charger
A/V connecting cable

Accessories

Batteries and Power Supplies



2NP-F970/B

Rechargeable Battery Pack (2 Batteries)



NP-F570

InfoLITHIUM Rechargeable Battery Pack



NP-F770

InfoLITHIUM Rechargeable Battery Pack



NP-F970

InfoLITHIUM Rechargeable Battery Pack



AC-VQL1BP

Intelligent Quad Battery Charger and Dual AC adaptor

Lapel (ECM-series)

**ECM-673**

Short Shotgun Electret Condenser Microphone.

**ECM-674**

Electret Condenser Microphone

**ECM-678**

Electret Condenser Shotgun Microphone

Cases

**LCH-FXA**

Hard Carrying Case

**LCS-G1BP**

Soft Carry Case

**LCS-VCB**

Soft Carrying Case

**LCH-GT1BP**

Hard Carrying Case

**LCS-BP1BP**

Soft Carrying Case

Camera Adaptors

VCL-HG0872

Wide conversion lens

**HVL-LBP**

LED Battery Video Light

**VF-72CPK**

PL Filter Kit

**HVL-LBPA**

LED Battery Video Light

Tripods

**VCT-FXA**

Shoulder Brace

**VCT-1BP**

Bracket For Camera Rear Mount

**VCT-PG11RMB**

Tripod

**VCT-SP1BP**

Multi-purpose Camcorder Support System

Remote Controls



RM-1BP

Remote Commander

HDV



HVR-MRC1K

Compact Flash Memory Recording Unit