

Bringing Compact and Cost-effective HD Acquisition into the Field

– the HVR-Z1U HDV 1080i Camcorder



The rapid transition to HD programming in broadcasting and postproduction has introduced a tremendous demand for an entry-level path into the HD world. Sony's response to this demand is the HVR-Z1U Digital HD Video Camera Recorder – a compact and cost-effective HD camcorder that builds on the market-acclaimed DVCAM™ recorders.

The HVR-Z1U camcorder adopts the all-new, 1/4-inch HD format – the HDV 1080i specification of the HDV™ format. Combined with three high-resolution 1/3-inch type mega pixel CCDs, the HVR-Z1U captures and plays back 1080i HD signals, while maintaining the DVCAM/DV recording and playback capabilities provided on current Sony DVCAM models. What's more, the HVR-Z1U offers a down-conversion capability of its 1080i recordings.

These features allow the HVR-Z1U to be active immediately in current SD systems, while also providing a step-by-step migration to the HD world – operators can continue to acquire in DVCAM or DV formats, and switch to the HDV format as needed, or acquire in HDV 1080i from the start and use the down-conversion capability as required.

In addition to a unique camcorder body design and with its multitude of camera features, the HVR-Z1U offers maximum operability in the field, as well as opening up a new range of opportunities for creative shooting. Combining these features with the HD picture quality that HDV format provides, the HVR-Z1U becomes an exciting acquisition tool for a variety of applications today and tomorrow – from video journalism, wedding and event videography, corporate and training productions, and digital movie-making, up to broadcast newsgathering.

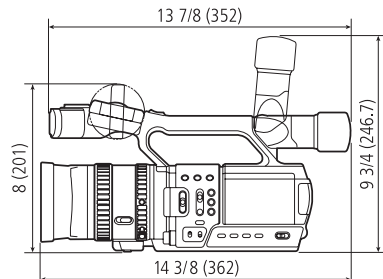
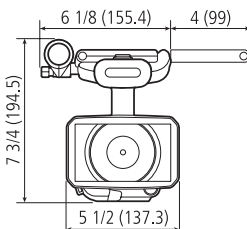
Offered at a price tag comparable to Sony DVCAM camcorders, the HVR-Z1U paves the way into cost-effective but uncompromised HD program production.



SPECIFICATIONS

Camera section	
Lens	Carl Zeiss Vario-Sonnar T* zoom lens, 12x (optical), f = 4.5 to 54 mm, f = 32.5 to 390 mm* at 16:9 mode, f = 40 to 480 mm* 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
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 sec 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 sec
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
VTR section	
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 DVCAM Max. 41 min with PHDVM-63DM cassette
Fast forward/Rewind time	Approx. 2 min 40 sec with PHDVM-63DM cassette
Input/Output connectors	
Audio/Video input/output	AUDIO/VIDEO jack x1 Video signal: 1 Vp-p, 75 Ω unbalanced, sync negative Audio signal: 327 mV (at load impedance 47 kΩ), input impedance more than 47 kΩ, output impedance less than 2.2 kΩ
S-video input/output	Mini-DIN 4-pin x 1 Y: 1 Vp-p, 75 Ω unbalanced, sync negative C: 0.286 Vp-p (NTSC), 0.3 Vp-p (PAL), 75 Ω unbalanced
Component video output	COMPONENT OUTPUT jack Y: 1 Vp-p (0.3 V, sync negative) Pr/Pb (Cr/Cb): 525 mVp-p (75% color bar), input impedance 75 Ω
i.LINK Interface	4-pin
XLR audio input	XLR 3-pin female x 2, 327 mV, -60 dBu: 3 kΩ, +40 dBu: 10.8 kΩ, power supply: approx. 40 V
Headphone	Stereo minijack (Φ3.5 mm)
LANC	Stereo mini-minijack (Φ2.5 mm)
Built-in input/output devices	
LCD viewfinder	0.44-inch type, approx. 252,000 pixels (1120 x 225), hybrid type
LCD monitor	3.5-inch (viewable area, measured diagonally), approx. 250,000 pixels (1120 x 224), hybrid type
Microphone	Stereo type, noise reduction on/off
General	
Weight	Approx. 4 lb 10 oz (2.1 kg) (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	32 to 104 °F (0 to 40 °C)
Storage temperature	-4 to 140 °F (-20 to +60 °C)
Supplied accessories	AC-VQ850 AC adaptor/charger, power cord, connecting cord, lens hood, large eyecup, RMT-841 wireless Remote Commander unit, A/V connecting cable, component video cable, shoe adaptor, NP-F570 InLITHIUM rechargeable battery pack, size AA (R6) batteries (2), cleaning cassette, shoulder strap, operating instructions

* These values are calculated to be equivalent to the 35 mm film.



unit: inches (mm)

SONY