

HVR-M35E

The HVR-M35E is compatible with HDV native progressive recording modes and supports HD/SD-SDI output with embedded audio and TC data.



❖ HD/SD-SDI Output

The HD/SD-SDI output of HVR-M35E allows straight duplication to a deck with HD/SD-SDI input.

❖ Multi-format Playback/Recording Capability

The HVR-M35E supports HDV native progressive recording modes and has a 60i/50i switchable function, so it can playback/record:

- HDV1080i: 60i/50i/24p/30p/25p
- DVCAM/DV: 60i/50i
- The HDV720p(24/25/30p) tape playback is available for a simple viewing.*

*No i.LINK output for HDV720p

❖ Standard and Mini Size Cassette Tape Compatibility

Both standard and mini size cassette tapes are supported. It accepts standard cassettes shot on the HVR-S270E or other shoulder-mount DVCAM camcorders.



❖ Four Channel Audio Data Playback

The HVR-M35E can play back the four-channel audio data in HDV1080i format recorded by the HVR-S270E. It can also play back the four-channel audio data in DVCAM format. The four-channel audio data is embedded in the i.LINK and HD/SD-SDI output, or is output through the AES/EBU audio connectors.

❖ 2.7-inch Wide Clear Photo LCD plus Screen and Monaural Speaker

A built-in 2.7-inch type wide Clear Photo LCD plus™ screen and built-in monaural speaker allow quick and convenient checking of video and audio.

❖ Other Functions of the HVR-M35E

The HVR-M35E covers most functions of its lower-end model, the HVR-M25E.

Down-conversion Playback Capabilities

The HVR-M35E can convert material from HD down to SD, and output the SD video signal through its i.LINK, SD-SDI, analogue component, S-video, and composite connectors. This allows users to edit recorded material with a compatible nonlinear editing system using current DV editing software, as well as record SD signals to an external VTR.

When down-converting these signals, the aspect ratio displayed can be converted from 16:9 to 4:3. Display modes can be selected from Squeeze, Letterbox, and Edge Crop*16.

*16 Letterbox output is not available from the i.LINK connector. For the HDV recording with four channels audio data, the audio data in the down-converted DV signal is selectable from either 1/2ch or 3/4ch.

Edge Crop Adjust

When down-converting signals in Edge Crop mode, you can use the Edge Crop Adjust function to adjust the edge crop position. By displaying the edge crop marker on the LCD monitor, operators can conveniently check the edge crop position before outputting down-converted signals.

DUPLICATE PLUS

The DUPLICATE PLUS function makes it easy to copy video and audio from a VTR or camcorder onto the HVR-M35E – along with the original time code. Operators simply connect the two i.LINK devices together via their i.LINK interfaces and press the DUPLICATE PLUS and PLAY buttons on the front panel of the HVR-M35E. Copying will then begin.

Specifications (HVR-Z7E,HVR-S270E)

		HVR-Z7E	HVR-S270E
Camera section			
Supplied Lens		Carl Zeiss Vario-Sonnar T* zoom lens, 12x (optical), f = 4.4 to 52.8 mm, f = 32.0 to 384 mm* at 16:9 mode f = 39.5 to 474 mm* at 4:3 mode, filter diameter: 72 mm	
Built-in filter		Clear, 1/4, 1/16, 1/64	
Imaging system		1/3-inch, progressive 3 ClearVid CMOS Sensor system with Exmor technology	
Picture elements		Approx. 1,037,000 pixels (effective), approx. 1,120,000 pixels (total)	
Focus		Auto, manual (focus ring/one push auto/infinity/AF assist/ focus macro)	
White balance		Auto, one-push auto (A/B positions), indoor (3200 K), outdoor (selectable level -7 to +7, approx. 500K/step), manual WB Temp (selectable 2300K to 15000K, 100K/step)	
Manual shutter speed	Auto	1/50 - 1/1750	
	Manual	50/25p: 1/3 - 1/10000	
Gain		-6, -3, 0, 3, 6, 9, 12, 15, 18, 21 dB	
Minimum illumination		1.5 lux (auto gain, auto iris, 1/25 shutter)	
VTR section			
Recording format		HDV1080/50i, DVCAM, DV SP 576/50i (PAL)	
Play out/Down conversion format		HDV1080/50i, DVCAM, DV SP 576/50i (PAL)	
Playback/Recording time	HDV/DV SP	Max. 63 min with PHDVM-63DM cassette	Max. 276min with PHDV-276DM Max. 63 min with PHDVM-63DM cassette
	DVCAM	Max. 41 min with PHDVM-63DM cassette	Max. 184min with PHDV-276DM Max. 41 min with PHDVM-63DM cassette
Input/Output connectors			
Audio/Video output		10-pin connector A/V OUT jack (composite, unbalanced audio x2ch with the supplied cable)	Composite video (BNCx1) Unbalanced audio (pin x2ch)
Component video output		Component out jack (special connector) BNC x3	
HDV/DV input/output		i.LINK interface (IEEE 1394, 6-pin)	
XLR audio input		XLR 3-pin female x 2ch	XLR 3pin female x 4ch
Headphone		Stereo mini jack (ø3.5 mm)	
LANC		Stereo mini-mini jack (ø2.5 mm)	
Digital video output		HDMI connector	HD/SD-SDI BNC x1
Built-in output devices			
LCD view finder		0.45-inch type (Viewable area measured diagonally), approx. 1,226,880 dots (852x480x3(RGB)), 16:9 aspect ratio	
LCD monitor		3.2-inch type (Viewable area measured diagonally), XtraFine LCD, approx. 921,600 dots, hybrid type, 16:9 aspect ratio	
General			
Mass		Approx. 2.4 kg (5 lb 4 oz) (w/ the supplied lens, w/o tape, battery)	Approx. 6.3kg (13 lb 15 oz) (w/ the supplied lens, w/o tape, BP-GL95battery)
Power requirements		DC 7.2 V (battery pack), DC 8.4 V (AC adaptor)	
Power consumption	HDV	Approx. 7.0 W (with ECM-XM1 / LCD EVF ON)	
	DVCAM/DV	Approx. 6.8 W (with ECM-XM1 / LCD EVF ON)	
Operating temperature		0 to 40 °C (32 to 104 °F)	
Storage temperature		-20 to +60 °C (-4 to 140 °F)	
Supplied accessories		AC-VQ1050 AC adaptor/charger, NP-F570 infoLITHIUM rechargeable battery pack, A/V connecting cable, component video cable, lens hood with lens cover, lithium battery (CR2025), shoe adaptor, large size eye-cup, additional normal shoe kit, RMT-831 wireless Remote Commander, ECM-XM1 monaural electret condenser microphone Operating instructions (CD-ROM) Printed operating instructions, memory recording unit kit	lens hood with lens cover, lithium battery (CR2025), large size eye-cup, additional normal shoe kit, ECM-XM1 monaural electret condenser microphone, Shoulder Belt, Operating instructions (CD-ROM), Printed operating instructions, memory recording unit kit
Supplied memory recording unit			
Recording media		CompactFlash card (2GB or bigger, 133x or faster) (not supplied)	
File system		FAT32	
File format	HDV	.M2T	
	DVCAM/DV	.AVI (DV-AVI, type 1) or .DV (Raw-DV)	
Connectors		special hot shoe i.LINK-6pin (on the supplied cradle) DC power input (on the supplied cradle) infoLITHIUM L series battery slot (on the supplied cradle)	

Specifications (HVR-M35E)

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, HDV720/24p, 720/25p, 720/30p
	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
	DVCAM	Max. 28.218 mm/s
Playback/recording time	HDV/DV SP	Max. 276 min with PHDV-276DM cassette Max. 63 min with PHDVM-63DM cassette
	DVCAM	Max. 184 min with PHDV-276DM cassette Max. 41 min with PHDVM-63DM cassette
Fast forward/rewind time		Approx. 2 min with PHDV-276DM cassette
Input/output connectors/devices		
Video input/output		BNCx1 / BNCx1
Monitor video out		RCA pin x1
S-video input/output		Mini-DIN 4-pin x1 / Mini-DIN 4-pin x1
Component video output		BNC x 3
i.LINK interface (HDV /DV)		6-pin (no power)

HD/SD-SDI output	BNC x1
Audio input	RCA pin x 4ch
Audio output	XLR 3pin x 4ch
Monitor audio out	RCA pin x 1
AES/EBU output	BNC x2
TC out	BNC x1
Phones	Stereo minijack (ø3.5 mm)
LANC	Stereo mini-minijack (ø2.5 mm)
Control S input	Stereo minijack (ø3.5 mm)
LCD monitor	2.7-inch type (Viewable area measured diagonally), approx. 211,200 dots (960 x 220), Clear Photo™ LCD Plus
General	
Weight	Approx. 9 lb 12 oz (4.4 kg)
Dimension (WxHxD)	Approx. 212 x 88 x 390.3mm (8 3/8 x 3 1/2 x 15 3/8 inch)
Power requirements	AC 120 V, 60 Hz
Power consumption	16 W (playback mode with LCD monitor on)
Operating temperature	41 to 104 °F (5 to 40 °C)
Storage temperature	-4 to 140 °F (-20 to +60 °C)
Supplied accessories	Remote Commander Unit (1), power cord (1), size AA batteries (2), cleaning cassette (1), operating instructions (1)