

HVR-Z7U Camcorder

Sony's new HVR-Z7U is the world's first professional handheld HDV camcorder with an interchangeable lens system. The compact design makes it easy to use and flexible when shooting applications requiring mobility and in space-constrained locations.



✦ HDV, DVCAM and DV Recording on a miniDV Cassette tape

The HVR-Z7U accepts miniDV cassette tapes, which provide over 60 minutes recording time for HDV and DV formats, over 40 minutes for DVCAM format.



Cassette compartment

✦ An Ideal Handheld Camcorder Design

Sony has responded to professional user feedback to create the ideal handheld camcorder with ergonomically designed body-weight balance and a well-planned layout of buttons and connectors to reduce camera operator fatigue.



Operational Versatility of HVR-Z7U

✦ New XtraFine LCD and EVF Offer High-resolution, High-contrast Images

XtraFine LCD

A 3.2-inch (viewable area, measured diagonally) type XtraFine™ LCD is located on the HVR-Z7U in the same position as on the HVR-Z1U. The high pixel number of approximately 921,000 dots is around four times greater than the LCD of the HVR-Z1U, and this higher resolution allows for easier focus adjustments.

XtraFine EVF

The 0.45 inch type XtraFine EVF (Electronic View Finder) has approximately 1,227,000 dots (852x3(RGB)x480). This device has three independent LEDs for R, G, and B colors. This technology allows users to check objects with remarkable color reproduction and resolution*. The EVF has a selectable display mode between color or black and white.

*When the camcorder is panned quickly or when an object in the screen moves quickly, the primary colors of R/G/B may be seen on the object in the EVF momentarily.

Common Features of the XtraFine LCD and EVF

- 100% full-scan display – helps you to check the entire recorded area.
- 6500k color temperature – standard for professional monitors.



XtraFine LCD and EVF

(on screen image simulated)

❖ InfoLITHIUM L Series Battery Compatible

The HVR-Z7U uses the same InfoLithium® batteries as the HVR-Z1U, HVR-V1U, and DSR-PD170, so you can fully utilize your existing battery and charger assets.

❖ HDMI output connector

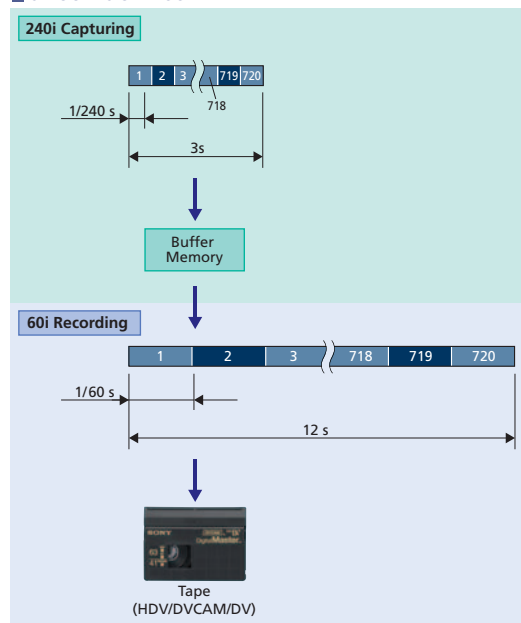
Uncompressed digital HD video and audio signals are output from the HDMI connector. You can see stunning HD images on the HDMI-compatible monitor display. During shooting, the pre-compressed 1920x1080i/4:2:2 signal is output from the HDMI connector.



❖ Smooth Slow Rec

The Smooth Slow Rec function of the HVR-Z7U camcorder enables slow-motion playback by capturing images four times faster than the normal field rate (240 fields/s). In this mode, quad-speed images are captured for three seconds, stored in the built-in buffer memory, and then recorded to tape (in either HDV, DVCAM, or DV format) as slow-motion pictures lasting 12 seconds*¹⁵. This allows recorded images to be checked immediately in the field. Although the resolution of the picture quality is decreased, this function is effective for some applications that don't need full HD quality, such as Internet movies or the analysis of moving objects like a golf swing, for example.

■ Smooth Slow Rec



*15 Audio cannot be recorded while shooting in this mode.

❖ Two Accessory Shoes

The HVR-Z7U features two accessory shoes. There is a cold shoe on the front that can be removed to make room for a mattebox. While at the rear, there is a screw-hole type shoe located on the handle, which can be changed to a cold shoe, if required, using supplied parts.



A:Removable Front Shoe B:Screw Hole



Removable Front Shoe



Rear cold shoe parts

❖ Two Screw Holes for Secure Connection

To provide a more secure connection between the camcorder and tripod plate or other accessories, two screw holes have been incorporated.

❖ One-touch Clip-type Microphone Holder

A one-touch clip-type microphone holder makes it easy to remove the microphone for quick storage.



Clip-type microphone holder

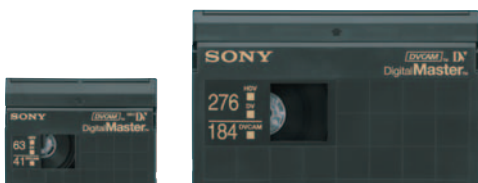
HVR-S270U Camcorder

The HVR-S270U offers videographers a traditional "on-the-shoulder" feel with the benefits of increased camera stability and longer recording time of up to 4.5 hours with standard size cassettes.



❖ Standard-size Cassette Compatibility

A standard-size cassette tape provides approximately 4.5 hours of HDV/DV recording or approximately 3 hours of DVCAM recording. Of course, recording on a miniDV tape is still an option.



❖ HD/SD-SDI & Other Output Connectors

An HD/SD-SDI output connector provides embedded audio and TC data and can, for example, be linked up to an XDCAM HD deck.

BNC connectors provide secure cabling connections.



Rear panel



Connectors



Side panel

❖ Four-channel Audio Input

Four-channel audio recording is realized in HDV and DVCAM thanks to four XLR audio input connectors – two at the front, and two at the back.

❖ "Dual Finder" New LCD Position on EVF Unit

The new LCD position on the EVF (Electric View Finder) unit is currently only available on Sony's professional HDV shoulder-mount camcorders.

The HVR-S270U camcorder features a new configuration of a 3.2-inch (viewable area, measured diagonally) type XtraFine LCD monitor (approximately 921,000 dots) and an XtraFine EVF (approximately 1,227,000 dots, 852x3(RGB)x480)*. The LCD is located on the EVF unit. This unique layout enables the camera operator to perform both traditional EVF monitoring and LCD monitoring, while the camcorder is held on the shoulder. The 180-degree tilt mechanism allows for LCD monitoring when the camcorder is held in a high or low-angle position, and the 270-degree swivel mechanism will allow LCD monitoring from the front, right, or even left of the camcorder so that a reporter or a director can monitor what is being captured by the camcorder.

*When the camcorder is panned quickly or when an object in the screen moves quickly, the primary colors of R/G/B may be seen on the object in the EVF momentarily.



❖ BP Series Battery Compatible

V-lock professional BP batteries are another great feature in common with broadcast camcorders.

❖ Smooth Slow Rec

As with the HVR-Z7U, the HVR-S270U camcorder enables slow-motion playback by capturing images four times faster than the normal field rate (240 fields/s).

HVR-M35U

The HVR-M35U is compatible with HDV native progressive recording modes and supports HD/SD-SDI output with embedded audio and TC data.



(Image simulated)

❖ HD/SD-SDI Output

The HD/SD-SDI output of HVR-M35U allows straight duplication to a deck with HD/SD-SDI input.

❖ Multi-format Playback/Recording Capability

The HVR-M35U 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

❖ Standard and Mini Size Cassette Tape Compatibility

Both standard- and mini-size cassette tapes are supported. It accepts standard cassettes shot on the HVR-S270U or other shoulder-mount DVCAM camcorders.



❖ Four Channel Audio Data Playback

The HVR-M35U can play back the four-channel audio data in HDV1080i format recorded by the HVR-S270U. 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-M35U

The HVR-M35U covers most functions of its lower-end model, the HVR-M25U.

Down-conversion Playback Capabilities

The HVR-M35U can convert material from HD down to SD, and output the SD video signal through its i.LINK, SD-SDI, analog 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*¹⁶, 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-M35U – 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-M35U. Copying will then begin.



Front

(image simulated)



Rear

Accessories

New **Optional Wide Lens**
 VCL-308BWH (for HVR-Z7U)*
 VCL-308BWS (for HVR-S270U)*

New **α lens adaptor**
 LA-100W*

* For the detail on the release date, please contact your nearest Sony office or authorized dealer.

CompactFlash Card

NCFD16GP 16GB 306x
 CompactFlash Card
 (planned availability Spring 2008)
 NCFD8GP 8GB 306x
 CompactFlash Card



New **VCT-SP1BP**
 Camcorder Support (HVR-Z7U)

- Weight support for stable/ comfortable shooting
- Support for several shooting styles (e.g., high-angle shooting)
- Quick-release function from harness for excellent mobility
- Perfect design for camcorder Monopod
- Carbon shaft for light weight and rigid design
- RM-1BP Remote Controller supplied as standard



New **AC-VQL1BP**
 AC Adaptor Charger (HVR-Z7U)

- 4 slots battery charger (A pair of parallel charge)
- 2 charge mode selectable (Normal/Full)
- Charging information
 Remaining time to charge complete
 Current available time for shooting
- Battery Log information
 Total charge time
 Total charge cycle
 last operation date



New **SH-L32WBP**
 LCD Hood (HVR-Z7U/S270U)

- LCD Hood for 3.2" LCD monitor
- Adjustable shade (360° shade)
- Folding structure realize transfer with camcorder



HVR-DR60
 Hard Disk Recording Unit

An external Hard Disk Recording Unit with a 60GB capacity and 4.5 hours of recording time for HDV, DVCAM and DV. (battery is not supplied)



HVL-LBP
 LED Battery Video Light
 (HVR-Z7U/S270U)

- LED reliability and low power consumption of 16W
- Battery power from NP-F770/F970
- Wide compatibility for flexible installation (Cold shoe/Screw bolt/Screw hole)
- Ideal for Wide-angle shooting and interviews
 Spot (600lx@1m) or flood-lighting (300lx@1m) with attached condensing lens ON or Off
- Light diffuser attached to soften shadows and reduce contrast
- Long Operating time: approximately 3 hours with the NP-F970 (at maximum brightness)



VCT-U14
 Tripod Adaptor
 (HVR-S270)

RM-1BP
 LANC remote controller
 (HVR-Z7U/S270U)

BP-GL95/GL65/L60S/L80S
 Lithium-ion Battery Pack
 (HVR-S270U)

BC-L70/M150/L500
 Battery Charger (HVR-S270U)

AC-DN10
 AC Adaptor (HVR-S270U)

2NP-F970/B
 InfoLITHIUM Rechargeable Battery Pack (2 pack) (HVR-Z7U)

NP-F970/F770/F570
 InfoLITHIUM Rechargeable Battery Pack (HVR-Z7U)

VCT-PG1TRMB
 Tripod with RM-1BP Remote Controller (HVR-Z7U)