HVR-HD1000N - Digital HD Video Camera Recorder

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**High-quality Imaging System**

The next generation of Sony imaging sensor, the ClearVid CMOS Sensor, coupled with an Enhanced Imaging Processor(TM) (EIP), generates stunning images. Moreover, thanks to the ClearVid CMOS Sensor used in the HVR-HD100N camcorder, is quite unique and has super steadyshot optical image stabilizer using an active optical lens method that functions without any deterioration in image quality. The lens itself shifts vertically and horizontally to compensate for the panning/tilting in real time.

**Optical Image Stabiliser**

Carl Zeiss Vario-Sonnar T*Lens

Carl Zeiss Vario-Sonnar T* lens is a high-end professional lens, as it is equipped with a professional HDV camcorder. The T* lens coating suppresses unwanted reflections and faithfully reproduces colors for professional-looking results.

**HVR-HD1000N Specifications**

- **Power Requirements (AC adaptor/Battery):** 8.4V / 7.2V
- **Mass (w/o Tape, Battery, etc):** 3.0Kg(6 lb 10 oz)
- **Storage Temperature:** -20°C to 60°C
- **Operating Temperature:** 0°C to 40°C
- **Power Consumption:** 4.4W / 4.8W
- **Shutter Speed:** 1/4-1/10000 (Still Image: 1/4-1/500)
- **Gain:** 11 lux(1/30 Shutter Speed)
- **Filter Diameter:** 37 mm
- **Filter Kit:** 1.7x tele conversion lens
- **Digital HD Video Camera Recorder**
A new camcorder has been created to meet the growing demand from users who are looking for mobility and professional appearance. The HVR-HD1000N features a shoulder-mount design and black matte body similar to that of professional camcorders; making it perfect for weddings, corporate communications, and sporting events where appearance makes a difference.

Professional Design
The HVR-HD1000N is stable and easy-to-carry for beginners. It provides a professional camcorder shoulder mount design allowing for easy balance and stable operation.

Ergonomically Designed Handle

The ergonomically designed handle of the HVR-HD1000N camcorder contains a replacement record button and zoom control, essential for low position shooting. There are two cold shoe items on the front and rear of the handle. You can attach microphones for the HVR-HD1000N camcorder through the built-in hard drive recording unit.

Viewfinder Unit Provides Easy Viewing

The Rec indicator light uses 211,200 dots widescreen Clear Photo LCD plus device that provides proper brightness and a high level of color reproduction. It helps the director or client to see what the camera operator is shooting. The LCD is in a low-level position or on a tripod. This also makes it easy for a director or client to see what the camera operator is shooting. The LCD can own 211,200 dots Clear Photo LCD plus device that provides proper brightness and a high level of color reproduction.

Wide Clear Photo LCD plus™ Monitor on Viewfinder Unit Provides Easy Viewing

A large, freely rotating 3.5-inch type color LCD monitor is on the top of the shoulder unit to provide easy viewing while the HVR-HD1000N camcorder is in a balanced position or in a tripod. This also makes it easy for a director or client to see what the camera operator is recording. The LCD can own 211,200 dots Clear Photo LCD plus device that provides proper brightness and a high level of color reproduction.

Camera Control Ring

A special camera control ring is located on the top of the handle. This ring is one of the following functions can be assigned to the ring for easy adjustment:
- Shutter
- Brightness
- Zoom
- * WB Shift
- * AE Shift

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- Shutter
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- * AE Shift

Camera Control Ring

The HVR-HD1000N camcorder contains a multi-function lens with infrared light emitter that allows you to record an object in zero lux light levels. It also enables night-time monitoring and surveillance.

Diverse Range of Photo-creation Functions

With the HVR-HD1000N’s Comes a series of image creation functions, such as DVCAM recording/playback, XLR audio connectors, and TC preset menu, it does boast a diverse range of photo-creation functions. These photo-creation functions are available at the touch of a button. You can take high-quality still images on Memory Stick Duo™ media*, and then use them to design DVD cases, website content, news, etc.

Other Features

• 123,200 dots Color EVF

• HDMI output connector

• Video/Audio output connectors

• DC power input

• LANC connector

• i.LINK connector

• Cassette tape compartment

• Photo button

• Memory Stick Duo media

• XLR audio connectors

• 6.1-megapixel, 2848 x 2136-quality, 4:3-aspect images.

In Photo mode of the HVR-HD1000N camcorder, you can take 6.1-megapixel, 2848 x 2136-quality, 4:3-aspect images.

Diverse Range of Photo-creation Functions

For working videographers starting out with a limited budget, the HVR-HD1000N camcorder provides flexibility and an amazing selection of features like HDV shooting and photo data creation. Even if you are still using SD for your projects, HD is the way of the future. Down-conversion allows you to shoot in HD to create a high-quality master tape and still use your existing DV nonlinear editing system and DVD display monitor for playback and editing.

Smooth Slow Rec

The Smooth Slow Rec function of the HVR-HD1000N camcorder enables down-conversion playback by capturing images at four times faster than the normal field rate (120 fields/s). In this mode, 60 frames of full HDV can be played in 15 seconds.

Super NightShot™

The Super NightShot function of the HVR-HD1000N camcorder enables operation in a low light environment. This allows you to record an object in zero lux light levels.

Other Features

Long Operating Time With infoLITHIUM™ L Series Battery

The HVR-HD1000N camcorder uses standard infoLITHIUM™ L Series Battery, NP-F970. With the NP-F970, a maximum operating time of approximate 10 hours can be achieved thanks to the power management system and low power consumption of the ClearVid CMOS Sensor.

Long Operating Time With infoLITHIUM™ L Series Battery

For disc label / DVD/Tape

- Use the original HDV footage for HD-quality Blu-ray Disc™ making.
- Use your edited content and photo data for standard DVD/tape making.

Capturing from recorded video

In case you intend the perfect timing for your still photo while videoing, you can capture and save still-digital frame from recorded video. The HVR-HD1000N camcorder during playing. HDV footage will give you a 1.2-megapixel, 640 x 360 pixel still image of that magic moment.
HDV - the Accessible HD Recording Format

HDV can be recorded on an innovative DV Cassette Tape. Video and television technology, as well as customer preferences, are moving from standard definition (SD) to high definition (HD) - just like black and white television moved to color in the past.

HDV has almost the same number of scanning lines available as SD - the camera can run much slower and get finer quality when your work is viewed on a HD display monitor. The HVR-HD100N supports the HDV format for HD recording. The HDV format allows you to shoot approximately 60 minutes of HD video on a miniDV cassette tape.*1

There are two standards of HDV format. One is HDV720p and the other is HDV1080i, which has 1080 lines of scanning and is used by most broadcasters already using HD. Sony has adopted the HDV1080i standard for all HD products.*2

On the HVR-HD100N, the ClearVid CMOS Sensor assures such a small chip size will have an equivalent optical performance in SD format. This pixel size is also 45.4% wider and 49.4% higher than conventional 2/3-inch CCD because the ClearVid CMOS Sensor is designed to handle image sizes that match high-definition displays. Without any deterioration in image quality, the CMOS technology, bright objects do not cause vertical smear.*3

Super SteadyShot TM (Optical) Image Stabilizer

Professional-looking results are assured since small chips will have excellent resolution and sensitivity, even in dim environments. Moreover, thanks to the CMOS technology, bright objects do not cause vertical smear.*3

When you shoot an image, the CMOS sensor creates a certain degree of vertical smear*1 and horizontally to 45 degrees to provide high resolution and high sensitivity. This pixel size is also 45.4% wider and 49.4% higher than conventional 2/3-inch CCD because the ClearVid CMOS Sensor is designed to handle image sizes that match high-definition displays. Without any deterioration in image quality, the CMOS technology, bright objects do not cause vertical smear.*3
A new camcorder has been created to meet the growing demand from users who are looking for mobility and professional appearance. The HVR-HD1000N features a shoulder-mount design and black matte body similar to that of professional camcorders, making it perfect for weddings, corporate communications, and sporting events where appearance makes a difference.

Premium design characteristics and high-definition HDV™1080i recording are the main features of this new one-piece shoulder camcorder, ideal for working videographers on a budget. A built-in down-converter creates DV material, perfect for standard DVD productions. Plus, a special still photo mode is ideal for producing DVD cases and making wedding photo albums.

Whether you are recording weddings and corporate communications or sporting events where appearance makes a difference, the HVR-HD1000N is lightweight and easy to use even for beginners, it provides a professional camcorder shoulder mount design for easy balance and stable operation.

 travailleur qui ont besoin d'un appareil photo numérique compact mais performant. Un boîtier noir mat similaire à celui de caméscope professionnels, le HVR-HD1000N a été conçu pour répondre à la demande croissante des utilisateurs soucieux de l'apparence et du professionnelisme.

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Whether you are recording weddings and corporate communications or sporting events where appearance makes a difference, the HVR-HD1000N is lightweight and easy to use even for beginners, it provides a professional camcorder shoulder mount design for easy balance and stable operation.

Wide Clear Photo LCD plus™ Monitor on Shoulder Unit provides Easy Viewing

Wide Clear Photo LCD plus™ Monitor on Shoulder Unit provides Easy Viewing. A large, brightly glowing 3-inch LCD panel provides an excellent view of the top of the world and an easy-to-read selection when the HDV/SDV camcorder is in a mounted position or on a tripod. The LCD panel is flexible, ideal for a director or client to view the camera operator in shooting. The LCD uses 211,200 dots Clear Photo LCD panel that provides proper brightness and a high level of color reproduction.

Camera Control Ring

A special camera control ring is located on the lens unit. The camera control ring provides easy adjustment of the lens for easy adjustment:

- Manual
- Zoom
- Iris
- Gain
- Focus
- White Balance

Super NightShot™

The Superclear lens of the HVR-HD1000N camcorder enables easy shooting in low light levels. It allows night-time monitoring and surveillance.

Diverse Range of Photo-creation Functions

The HVR-HD1000N also allows you to save the still photo data for future use.

- HDV
- Photo Mode
- Dual Rec

In Photo mode of the HVR-HD1000N camcorder, you can take 4.6-megapixel (16:9-aspect) photos while you are shooting HDV video simply by pressing the photo button. You can take up to 31 4.6-megapixel, 2848 x 2136-quality, 4:3-aspect images.

Dual Rec

You can take 4.6 megapixel 1:1 aspect photos while you are selecting your HDV recording. You can also shoot HDV videos with the SD card slot. Dual Rec allows you to record 6.1 megapixel, 2848 x 2136-quality, 4:3-aspect images. In this mode, video and photos are recorded simultaneously. The Smooth Slow Rec function of the HVR-HD1000N camcorder enables smooth slow-motion playback by capturing images at four times faster than the normal field rate (240 fields/s). In this mode, quad-speed images are captured for three seconds. A photo button in the front bar holds the still photo capture button, and the still photo data is saved as JPEG in a 4:3 aspect ratio. The Smooth Slow Rec function of the HVR-HD1000N camcorder is available for 1.2 megapixel, 1440 x 810 pixel still images. To select photo data, you can use the HDV footage button to select the photo data and then use the SD card slot to select the desired image.
A new camcorder has been created to meet the growing demand from users who are looking for mobility and professional appearance. The HVR-HD1000N features a shoulder-mount design and black matte body similar to that of professional camcorders, making it perfect for weddings, corporate communications, and sporting events where appearance makes a difference.

Premium design characteristics and high-definition HDVTM1080i recording are the main features of this new one-piece shoulder camcorder, ideal for working videographers on a budget.

The HVR-HD1000N is lightweight and easy to use even for beginners, it provides a professional camcorder shoulder mount design allows for easy balancing and stable operation.

A special still photo mode is ideal for producing DVD cases and making wedding photo albums. Whether you are recording weddings and corporate communications or helping students make a documentary, the HVR-HD1000N is the best choice on the market today as an entry level professional camcorder.

**Workflow Using HDV Shooting and Photo Data Creation**

For working videographers starting out with a limited budget, the HVR-HD1000N camcorder provides flexibility and an amazing selection of features ideal for HDV shooting and photo data creation. Even if you are still using film for your projects, HDV is the way of the future. Down-conversion allows you to shoot in HD to create a high-quality master tape and still use your existing DV nonlinear editing systems and TV display monitors for playback and editing.

**Diverse Range of Photo-creation Functions**

Within the HVR-HD1000N doesn’t contain all the features of a high-end professional camcorder, such as HDV still image magnification, AVC-Intra audio connectors, and IP preset menus, it does boast a diverse range of photo-creation functions. These photo-creation functions are available at the touch of a button. You can take high-quality still images on Memory Stick Duo™ media*8, and then use them to design DVD cases, website content, news, etc.

In Photo mode of the HVR-HD1000N camcorder, you can take 4.6-megapixel (16:9-aspect) photos while you are videotaping, you can capture and save still frames from recorded videotapes as slow-motion pictures lasting 12 seconds.*7

**Other Features**

- **Long Operating Time With infoLITHIUM L series Batteries**
  - You can attach two NP-F970 (optional) or two NP-F930 (optional) batteries to the camcorder during playback. HDV footage will give you a smooth transition from scene to scene. A special photo button of the HVR-HD1000N camcorder allows black and white infrared light that allows you to record an object in zero lux light levels. It also enables night-time monitoring and surveillance.

- **Long Operating Time With infoLITHIUM Battery**
  - Super NightShot™
    - The Super NightShot function of the HVR-HD1000N camcorder enables shooting in a dimly lit environment by just pressing the photo button of the HVR-HD1000N camcorder.

- **Wide Clear Photo LCD plus™ Monitor on Shoulder Unit Prominent Easy Viewing**
  - A large, freely rotating 3-Inch LCD has a fixed position on top of the shoulder unit to provide easy viewing while the HVR-HD1000N camcorder is a balanced position or in a tripod. The LCD monitor can be flipped to a director or client to see what the camera operator is shooting. The LCD menu 720,256 dots wide Photo LCD plus shows that provides proper brightness and a high level of color reproduction.

- **Camera Control Ring**
  - A special camera control ring is located on the shoulder mount. The camcorder will provide one of the following functions depending on the ring for easy adjustment:
    - Photo button
    - Video button
    - Brightness (default)
    - Focus
    - Zoom
    - AE Shift

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**Super NightShot™**

**The Super NightShot function of the HVR-HD1000N camcorder enables shooting in a dimly lit environment by just pressing the photo button of the HVR-HD1000N camcorder.**

Curtaining from recorded video

In case you intend the perfect timing for your still photo while videotaping, you can capture and save still frames from recorded video. You can capture and save still frames from recorded video. If you capture the video image before shooting, the photo button will give you a 1.2-megapixel, 720,256 dot still image that is magic moment.
**HDV - the Accessible HD Recording Format**

HDV can be recorded on an impressive DV Cassette Tape. Video and television technology, as well as camera performance, are recording from standard definition (SD) to high definition (HD) - just like black and white television converted to color in the past.

HDV has almost twice the number of scanning lines available than SD. The camera can use a much brighter signal and frame quality when your works is viewed in HD. Display monitors.

The HVR-HD1000N adopts the HDV format for HD recording. The HDV format allows you to shoot approximate 80 minutes of HD video on a mini DV cassette tape.

There are two standards of HD format. One is HDV1080i, which has 1,080 scanning lines and is used by most broadcasters already using HD. Sony has adopted the right standard for all HD products.

The HVR-HD1000N has a down-conversion feature that outputs SD editing / monitoring (4:3) HD Recording (16:9) pictures.

It is easy to use HDV recordings for your current DV editing work. The HVR-HD1000N has a deep conversion feature that converts the signal through the "4:3" connection to your current DV editing equipment.

**Video and television technology, as well as viewer preferences, are moving from standard definition (SD) to high definition (HD) - just like black and white television converted to color in the past.**

**Processor**

The ClearVid CMOS Sensor uses a unique pixel layout rotated 45˚ angle different from current CMOS technology. The next generation of Sony imaging sensor, the ClearVid CMOS, is quite unique and different from current CMOS technology.

The ClearVid CMOS Sensor has a unique pixel layout rotated 45˚ angle different from current CMOS technology. (optical), f = 5.4 to 54 mm, filter diameter: 37 mm

Carl Zeiss Vario-Sonnar T* lens

Carl Zeiss Vario-Sonnar T* lens coating suppresses unwanted reflections and faithfully reproduces colors for high quality when your work is viewed on a HD display monitor.

**High-quality Imaging System**

The HVR-HD1000N comes with a professional durability tape (optical), f = 5.4 to 54 mm, filter diameter: 37 mm. A shot-gun stereo microphone is supplied.

**Super SteadyShot**

The Super SteadyShot (Optical) Image Stabiliser is an image stabiliser using an active optical lens instead of functions without any deterioration in image quality. The lens itself shifts vertically and horizontally to compensate for the possible light and wind during use.

**Auto Slow Shutter**

Auto Slow Shutter is an image stabiliser using an active optical lens instead of functions without any deterioration in image quality. The lens itself shifts vertically and horizontally to compensate for the possible light and wind during use.

**Options**

- HVR-HD50D
- HVR-HDLP
- HVR-HD10P

**Supplied Accessory**

- VF-37CPK S
- VCL-HG1737C
- A professional durability tape
- A multi-purpose mid-spreader for HDV, DVCAM*, and DV. (optical), f = 5.4 to 54 mm, filter diameter: 37 mm.