# SONY



# HVR-HD1000U

Digital High Definition HDV Camcorder



A new camcorder has been created to meet the growing demand from users who are looking for mobility and professional appearance.

The HVR-HD1000U features a shoulder-mount design and black matte body similar to that of professional camcorders; making it perfect for weddings, corporate communications, colleges, universities, 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



## **Professional Design**

#### Shoulder-mount design

The HVR-HD1000U is lightweight and easy to use even for beginners. It provides a professional camcorder shoulder-mount design that allows for easy balance and stable operation.



Rec indicator light

Stereo shotgun microphone

A large, freely rotating 2.7-inch LCD screen is located on the top of the viewfinder unit to provide easy viewing when the HVR-HD1000U camcorder



Conventional LCD device

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 uses a 211,200 dots widescreen 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

### Camera Control Ring

A special camera control ring is located on the lens unit of the HVR-HD1000U camcorder. Any one of the following functions can be assigned to the ring for easy adjustment:

- \* Focus (default)
- \* 700m
- \* Brightness
- \* Shutter
- \* Video: 1/4~1/10000 sec
- \* Photo: 1/4~1/500 sec.
- \* AF Shift
- \* WB Shift



#### **Ergonomically Designed Handle**

The ergonomically designed handle of the HVR-HD1000U camcorder contains a convenient record button and zoom control, essential for low position shooting. There are two cold shoes on the front and rear of the handle. You can attach two accessories like the HVL-LBP Battery Video Light and HVR-DR60 Hard Disk Recording Unit.



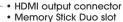


Cassette tape compartment (miniDV cassette)

Photo button



- i.HNK connector Video/Audio output connectors
- · LANC connector
- Headphone jack



USB connector

#### Other Features

#### Long Operating Time With infoLITHIUM™ L Series Battery

The HVR-HD1000U camcorder uses standard infoLITHIUM L series batteries, like the DSR-PD170, HVR-Z1U, and HVR-V1U. 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.



NP-F970 (optional)

#### Smooth Slow Rec

The Smooth Slow Rec function of the HVR-HD1000U camcorder enables 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, stored in the built-in buffer memory, and then recorded to tape (in either HDV or DV format) as slow-motion pictures lasting 12 seconds.\*7

\*7 When using this function, the resolution of the camera image is decreased Sounds can not be recorded while shooting in this mode.

#### Super NightShot™

The Super NightShot function of the HVR-HD1000U





camcorder uses a built-in OFF

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

While the HVR-HD1000U doesn't contain all the features you'd find in higher end professional camcorders, 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 store high-quality still images on Memory Stick Duo™media\*s, and then use them to design DVD cases, website content, news, etc.

\*8 Memory Stick Duo media is not supplied.

#### **Photo Mode**

In Photo mode of the HVR-HD1000U camcorder, you can take 6.1-megapixel, 2848 x 2136-quality, 4:3-aspect images.

#### **Dual Rec**

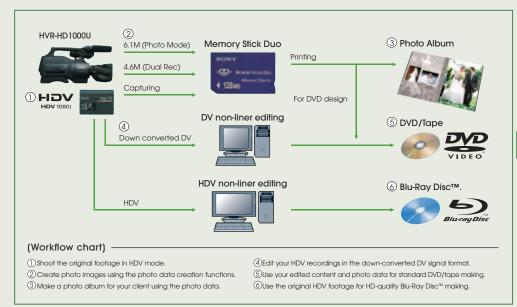
You can take 4.6-megapixel (16:9-aspect) photos while you are shooting HDV video simply by pressing the photo button.

#### Capturing from recorded video

In case you missed the perfect timing for your still photo while videotaping, you can capture and save still frames from recorded video by just pressing the photo button of the HVR-HD1000U camcorder during playback. HDV footage will give you a 1.2-megapixel, 1440 x 810 pixel still image of that magic moment.

### Workflow Using HDV Shooting and Photo Data Creation

For working videographers starting out with a limited budget, the HVR-HD1000U 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 SD display monitor for playback and viewing.



Your Client

#### HDV - the Accessible HD Recording Format

#### HD can be Recorded on DigitalMaster professional tape as well as consumer MiniDV.

Video and television technology, as well as viewer preferences, are moving from standard definition



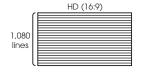
(SD) to high definition (HD) - just like black and white television moved to color in the past.

HD has almost twice the number of scanning lines available with SD. This means you can see much sharper detail and finer image quality when your work is viewed on an HD display monitor.

The HVR-HD1000U adopts the HDV format for HD recording. The HDV format allows you to shoot approximate 63minutes 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 1,080 scanning lines and is used by most broadcasters already using HD. Sony has adopted the HDV1080i standard for all its HDV products. \*2







Picture Quality





**HDV** Recording

\*1 When the PHDVM-63DM DigitalMaster™ mini cassette tape is used. The PHDVM-63DM is Sony's recommeded tape for HDV recording. The recording data rate of HDV1080 format is almost the same as that of DV format

\*2 This brochure refers to the HDV1080i specification as the HDV format

#### Full Compatibility with your Current DV System

The HVR-HD1000U offers benefits for SD productions, as well as HD. It is easy to use HDV recordings for your current DV editing work. The HVR-HD1000U has a down-conversion feature that outputs converted DV signals through the i.LINK connector\*3 to your current DV non-linear editing system, while retaining an HD master on the tape for future use. Furthermore, the HVR-HD1000U offers a DV recording mode (4:3 or 16:9\*4), which can

HDV1080i  $ightarrow ^{ ext{Mini}} D^{ ext{Digital}}_{ ext{Video}}$ DV -DV (LP)

provide a recording time of approximately 120 minutes in LP mode.\*5

#### HD Recording (16:9)

# HOV



conversion

i.LINK / Analog output

#### SD Editing / Monitoring (4:3)







\*3 i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. Not all products with an i.LINK connector will necessarily communicate with each other. For information on compatibility, operating conditions, and proper connection, please refer to the documentation supplied with any device with an i.LINK connector. For information on devices that include an i.LINK connection, please contact your nearest Sony office

\*5 When a DVM80PRL standard miniDV cassette tape is used. If you record in LP mode, pictures may appear mosaic-like or sound may be interrupted when you play back the tape on

\*6 Letter box mode is not available from the i.LINK connector

#### HVR-DR60 Brings HDV to IT Workflows

The optional external HVR-DR60 Hard Disk Recording Unit gives you a hybrid operation, where video and audio are recorded simultaneously to hard disk drive (HDD) and tape. The HDV or DV images are recorded as movie files in the HDD for quick nonlinear editing, enabling the operator to archive the source tape as soon as the shoot is finished.



HV/P-DPA0 (Hard Disk Recording Unit)

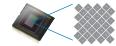
# High-quality Imaging System

#### 1/2.9-inch Clear Vid CMOS Sensor™

The next generation of Sony imaging sensor, the ClearVid CMOS Sensor used in the HVR-HD1000U camcorder, is quite unique and different from current CMOS technology.

The ClearVid CMOS Sensor uses a unique pixel layout rotated 45 degrees to provide high resolution and high sensitivity. This pixel layout technology is also used in higher end professional camcorders. The ClearVid CMOS Sensor, coupled with an Enhanced Imaging Processor™ (EIP), generates stunning images. Moreover, thanks to the CMOS technology, bright objects do not cause vertical smear.







ClearVid CMOS Sensor Vertical smear





#### Optical 10x zoom by Carl Zeiss Vario-Sonner T\*™lens

The HVR-HD1000U camcorder can adapt to a wide range of shooting situations and features a Carl Zeiss Vario-Sonner T\* lens with 10x optical zoom, as featured on higher end professional HDV camcorders. The T\* lens coating suppresses unwanted reflections and faithfully reproduces colors for professional-looking results.





without T\* coating

#### Super SteadyShot® (Optical) Image Stabilizer

The Super SteadyShot (Optical) feature of the HVR-HD1000U is an 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 polarized light axis in real time.



#### **Options**

#### HVR-DR60

An external Hard Disk Recording Unit with a 60GB capacity and 4.5 hours of recording time for HDV, DVCAM\*, and DV.



HVL-LBP LED video light using infoLITHIUM L series battery.



# RM-1BP

A LANC remote controller with variable speed



VCT-PG11RMB

A multi-purpose mid-spreader tripod with RM-1BP.



VCL-HGO737C

0.7x wide conversion lens



VCL-HGO1737C



PHDVM-63DM

Sony's recommended Professional Tape for HDV, DVCAM\*and DV.



2NP-F970

infoLITHIUM L series rechargeable battery pack (two packs)

NP-F570/770/970 infol ITHIUM L series rechargeable battery

AC-VQ1050B AC adaptor/charger

UWP-C1/C2/C3 **UHF Synthesized Wireless** Microphone Package

VMC-IL4408A/ IL4415A/IL4435 i.LINK cable (4pin-4pin)

VMC-IL4615/4635 i.I INK cable (4pin-6pin 1.5m/3.5m)

VMC-30VC

3m Component Video Cable

VMC-30FS 3m Multi AV Cable

pack

VMC-15HD/30HD HDMI cable (1.5m/3m)

VF-37CPK S Filter Kit

\*HVR-HD1000U doesn't have DVCAM recording/playback capability.

### HVR-HD1000U Specifications (preliminary)

Comerc costion		
Camera section		Out 7 in Main Court Towns In a 40 (ration) 6 5 44 54 are filled in the 97 are
Lens		Carl Zeiss Vario-Sonnar T* zoom lens, 10x (optical), f = 5.4 to 54 mm, filter diameter: 37 mm
Focal length	16:9 video mode	40 to 400mm*1
	4:3 video mode	49 to 490mm*1
	16:9 photo mode	
	4:3 photo mode	37 to 370mm*1
Imaging system		1/2.9-inch, ClearVid CMOS Sensor system
Maximum still image recording		MAX. 6.1M (2848 x 2136) (4:3)
Gross pixels		Approx. 3200K pixels
Effective pixels	16:9 video mode	Approx. 2280K pixels
	4:3 video mode	Approx. 1710K pixels
	16:9 photo mode	Approx. 2280K pixels
	4:3 photo mode	Approx. 3040K pixels
VTR section		
Recording format		HDV1080/60i, DV/DV(LP)480/60i (NTSC)
Play out/Down conversion format		HDV1080/60i, DV/DV(LP)480/60i (NTSC)
Playback/Recording time	HDV/DV SP	Max. 63 min with PHDVM-63DM cassette
	DV LP	Max. 94.5 min with PHDVM-63DM cassette
Connectors		
Component video output		RCA Pin x3
Composite video output		RCA Pin x1
S-Video output		mini-DIN 4-pin x1
HDMI output		HDMI connector
HDV/DV input/output		i.LINK interface (IEEE 1394, 4-pin connector)
Audio output		RCA Pin x2 (L,R)
Audio input		Stereo mini jack ( $\phi$ 3.5 mm), ECM-PS1 external shot-qun stereo microphone is supplied.
Headphone		Stereo mini jack ( $\Phi$ 3.5 mm)
LANC		Stereo mini-mini jack (ф2.5 mm)
USB		TYPE B connector
DC Input		AC-L100 AC adaptor is supplied.
Others		The contraction of the contracti
LCD viewfinder		0.27-inch type*2, approx. 123,200 dots, 16:9 aspect ratio
LCD monitor		2.7-inch type*2, Clear Photo LCD plus, approx. 211,200 dots, hybrid type, 16:9 aspect ratio, touchscreen
Speaker		Φ16mm
орошкої		1.4.4000

<sup>\*1</sup> These values are calculated to be equivalent to the 35 mm film. \*2 Viewable area, measured diagonally.

