

(simulated image)

HXR-NX5U

Digital HD Video Camera Recorder

















Picture yourself in the next stage.

Definition for Professionals

Mobility for Professionals

Confidence for Professionals

...visualize your creativity.

Introduction

Debut of the First Sony NXCAM Camcorder-HXR-NX5U

- Heralding New Standards in Contents Creation

The new HXR-NX5U camcorder is the first product of the NXCAM generation from Sony, and a new category of tapeless memory camcorder, providing an ideal balance of power and performance in the digital age.

Utilizing the revolutionary AVCHD format, this camcorder offers long duration recording – with dual memory slots – on affordable consumer memory cards. As it facilitates a totally IT-based workflow, the HXR-NX5U has the potential to profoundly change the way content is created. Simultaneous hybrid recording is available in HD (high definition) and SD (standard definition) formats using an optional HXR-FMU128 flash memory unit.

In any format, breathtaking picture quality is assured with proven features from Sony such as a state-of-the-art "G Lens" and three ExmorTM CMOS sensors with a ClearVidTM array. Professionals around the world expect this standard of picture quality from Sony...and accept nothing less.



Main Features



G Lens

"G Lens", the lens featured in other successful Sony camcorders, already enjoys an excellent industry reputation. In the HXR-NX5U, this sophisticated lens is optimized to complement the camcorder's advanced image sensor and image-processing technology.



Three Exmor CMOS sensors with a ClearVid array comprise a state-of-the-art sensor system from Sony which realizes high resolution, high sensitivity, a wide dynamic range, and excellent color reproduction, regardless of the codec.



Memory Recording and HYBRID

Memory recording on affordable consumer memory cards offers workflow efficiency at both the shooting and editing stages. Combined with hybrid recording, using an optional HXR-FMU128, the user achieves a totally IT-based workflow, with the added bonus of instant data backup.







A built-in global positioning system (GPS) locator allows satellite navigation data to be recorded directly onto footage for reference or posting on popular internet mapping systems. GPS data can be invaluable when searching for footage or to provide evidence of where and when footage was recorded.



Active SteadyShot Feature

Active SteadyShot® feature is a new, enhanced image stabilization system that provides a powerful shake-reduction capability, vital for handheld usage. Additional stabilization is provided by the increased optical lens coverage area and by improved detection with state-of-the-art compensation

AVCHD Format

The revolutionary AVCHD™ recording format, which utilizes the MPEG-4, AVC/H.264 video codec, allows users to record HD video footage onto random access media. Its intelligent and sophisticated algorithm makes AVCHD a highly efficient compression format ideal for memory recording and IT-based editing.

Advanced Camera Features

Sony-exclusive High-performance "G Lens"



The "G Lens" provides great picture quality and versatility with a wide angle of 29.5 mm (equivalent to 35 mm film) and a 20x high quality zoom. Two ED (extra-low dispersion) glass elements reduce chromatic aberrations caused by differences in light refraction to minimize color fringing. The advanced 10-group, 15-element lens structure also includes a compound aspheric lens for images that are crisp and clear, even when shooting videos at a high zooming ratio.

Other Superb Features of the Optical System



Natural-touch Lens Operation

The focus, zoom and iris ring are positioned on the lens barrel, and this design offers the same operability as general interchangeable lenses. Focus, zoom and iris control can all be managed easily.

Six-blade Iris

▶ The six-blade iris diaphragm is nearly circular, enabling the creation of an extremely beautiful background blur.

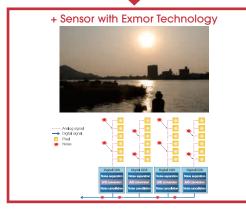
Built-in ND filters

▶ The HXR-NX5U is equipped with three built-in ND (Neutral Density) filters – 1/4, 1/16, 1/64 – which help to vary the depth of field with iris control.



Innovative Technologies

+ Ordinary CMOS Sensor Andro speal Polar Rose Noce AND COMMITTER AND COMMITTER

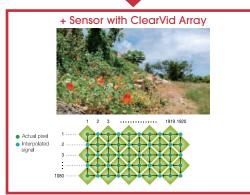


ClearVid Array Technology

+ Small size sensor







(simulated image)

Three 1/3" Exmor CMOS Sensors - Before the Codec



The three state-of-the-art 1/3" Exmor CMOS sensors with a ClearVid array ensure high resolution, high sensitivity, a wide dynamic range, and excellent color reproduction. The quality of this imaging system has earned an excellent reputation in the industry, and is of course fully realized in the new HXR-NX5U.

▶ Exmor Technology Noise Reduction System

Multiple A/D (analog-to-digital) converters on each pixel row convert analog signals to digital as soon as they are generated, unlike traditional technology that only provides one A/D converter on each chip. Exmor technology can eliminate the influence of external noise that enters the signal chain during transfer to the A/D converter, resulting in high-quality digital signals with extremely low noise. This significantly enhances shooting in low-light environments with a sensitivity of just 1.5 lux.*

* At 1/30 shutter, auto iris, and auto gain.

▶ High Sensitivity and Resolution with Sophisticated Techniques

CMOS sensors equipped with a ClearVid array achieve a bigger sensor pixel size than ordinary image sensors, and this leads to high sensitivity. Furthermore, a unique interpolation technique from Sony utilizes the 45-degree rotated pixels on each chip, increasing resolution. The powerful combination of these two sophisticated techniques explains why Sony picture quality has such an excellent industry reputation.



Cutting-edge Technologies

Location Simplification with Cutting-edge GPS Technology



The HXR-NX5U is the world's first AVCHD professional camcorder with an internal GPS. This important new feature enables users to find the same shooting location when, for example, they need to revisit a location for extra shots that must match existing footage. GPS data is embedded in AVCHD video data files. Mapping data can be created using bundled Content Management Utility software. Also GPS data can be extracted from video files, using Content Management Utility software, in a commonly used latitude/longitude NMEA data format. This GPS information can be used in several applications.



Content Management Utility Software

- " Google and Google Earth are trademarks of Google inc."
- " Maps and satellite images powered by Google Maps $^{\text{IM}}$ mapping service. "



A new feature of the HXR-NX5U is Active SteadyShot. This useful feature effectively reduces hand-held camera shake. The improvement is particularly noticeable when using wide-angle framing. It is an essential feature when holding the camcorder by hand, and especially for projects that are recorded mainly in the field. It is also ideal when the subject is moving and must be followed, for example in news gathering or at weddings. Shooting from inside a moving vehicle is another useful application for the Active SteadyShot feature. It significantly reduces the need for external stabilization systems. Improved stabilization allows the user to concentrate more on composition and shot transition, rather than worry about how to stabilize the camera. Depending on the shooting environment, users can select normal SteadyShot feature or Active SteadyShot feature for hand-held applications. When not in use, the stabilization feature can be easily switched off.



Without Active SteadyShot Feature

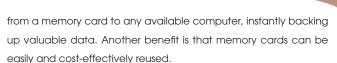


With Active SteadyShot Feature

Memory Recording for Professionals

Efficiency and Operability on Readily Available Memory Cards





The HXR-NX5U is also the first Sony professional camcorder designed to record directly onto consumer memory cards. These cards are affordable and easy to find. This general versatility is especially handy when a user suddenly needs extra memory – something that happens quite often when shooting a documentary or news report on the move. Also, memory cards are very compact and easy to handle. Many devices can accept these memory cards allowing easy playback. Files can be copied

Available Memory Cards Type





* For detailed information please refer to the specification sheet on the back of this brochure.

Relay Record with Dual Memory Slots

Another new feature is continuous recording between two memory card slots. The new HXR-NX5U camcorder automatically cycles between the dual memory slots. When using two, 32-GB memory cards, six hours of continuous HD footage can be recorded. If a longer continuous recording time is required, the user simply waits until the first card is full and recording has relayed to the second card, before ejecting the first card and inserting a new blank memory card. This procedure can be repeated as required, extending continuous recording for a sufficiently long time.

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Three Major Advantages of Memory Recording

1. Easy Viewing of Recorded Footage

The major benefit of this memory recording system is its instant search capability for recorded clips using thumbnail images. This speeds up logging and editing work, which is ideal in fast-paced environments. Having the ability to access clips randomly will make production staff much happier and far more efficient.

2. Fast Ingestion to a Computer

Users can simply pop out a memory card and plug it into most computer's memory card reader slot (or use a USB2.0-type memory card reader) to upload files. This is likely to take less time than the actual length of recorded footage, so more time can be spent shooting. Users are secure in the knowledge that editing deadlines will be met, thanks to this efficient new approach to digital video production.

*The uploading time will depend on the computer's specification.

3. Easy Playback

Affordable consumer memory media are already used in many consumer electronic devices, and more are to come. Recorded footage can be instantly played back using these devices.

Recording Time on a single memory media

НD	MO	VIE

		AVCHD 24Mbps (max) FX mode	AVCHD 17Mbps (avg) FH mode	AVCHD 9Mbps (avg) HQ mode	AVCHD 5Mbps (avg) LP mode
	1GB	4 min	6 min	10 min	15 min
	2GB	10 min	10 min	20 min	35 min
Linear	4GB	20 min	25 min	45 min	70 min
PCM	8GB	40 min	55 min	95 min	150 min
2ch	16GB	85 min	110 min	190 min	300 min
	32GB	170 min (2h 50m)	225 min (3h 45m)	385 min (6h 25m)	605 min (10h 5m)
	1GB	5 min	6 min	10 min	20 min
	2GB	10 min	10 min	25 min	40 min
Dolby	4GB	20 min	25 min	50 min	90 min
Digital	8GB	45 min	55 min	105 min	185 min
2ch	16GB	90 min	115 min	215 min	375 min
	32GB	180 min (3h 0m)	235 min (3h 55m)	435 min (7h 15m)	750 min (12h 30m)

SD MOVIE

		(avg) HQ mode
	1GB	10 min
Dolby	2GB	25 min
Dolby Diaital	4GB	55 min
2ch	8GB	115 min
	16GB	235 min
	32GB	475 min (7h 55m)

Hybrid Video Footage Recording Capability



Optional 128-GB Flash Memory Unit, HXR-FMU128

Sony proudly introduces the HXR-FMU128, an optional 128-GB flash memory unit exclusively designed for the HXR-NX5U camcorder. This enables hybrid recording of video footage - another world first for an AVCHD professional camcorder. Other capabilities include simultaneous recording of HD and HD video footage, and even the combination of HD and SD, realizing an instant backup in the desired format. The 128-GB storage capacity provides continuous recording for almost half a day at the highest bit-rate incredible in a unit of such compact size. This is an ideal option for recording music festivals, seminars, and weddings, and for making documentaries, all of which require extended recording times.

Simple Direct Attachment

The HXR-FMU128 is designed exclusively for this camcorder, so it attaches directly to the back of the HXR-NX5U.

Long, High-quality Recording

The memory unit enables approximately 11 hours of continuous recording in the highest FX 24-Mbps* mode.

* FX 24-Mbps mode comprises 21-Mbps of video data and 3-Mbps of audio and

Recording Time on HXR-FMU128

HD recording time (HD MOVIE)

	AVCHD 24Mbps (max) FX mode	AVCHD 17Mbps (avg) FH mode	AVCHD 9Mbps (avg) HQ mode	AVCHD 5Mbps (avg) LP mode
Linear PCM 2ch	700 min (11h 40m)	930 min (15h 30m)	1570 min (26h 10m)	2490 min (41h 30m)
Dolby Digital 2ch	740 min (12h 20m)	980 min (16h 20m)		3080 min (51h 20m)

SD recording time (SD MOVIE)

HXR-NX5U		
	SD 9Mbps (avg) HQ mode	
Dolby Digital 2ch	1960 min (32h 40m)	



Hybrid Recording with the HXR-NX5U and HXR-FMU128



1. HYBRID Format

HD+HD/HD+SD

SD for today, HD for tomorrow, both acquired by one shot

5. HYBRID Media

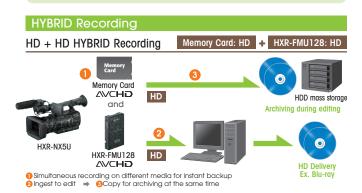
Memory Card + Flash Memory Unit

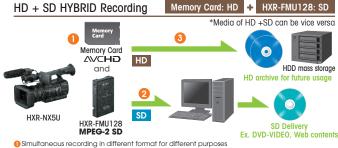
Identical clips on different media provides instant backup

9. HYBRID Workflow

Media for Editing + Media for Archiving

Simultaneous ingesting to two computers will allow editing and archiving at the same time





Simultaneous recording in different format for different purposes
 Ingest SD data to edit today
 3Archive HD data for tomorr

Simple Data Transfer and Input

Simple connection to a computer via a USB slot means there's no need for an external power supply. Once the HXR-NX5U is linked

to a PC via a USB2.0 cable, files can be uploaded directly. This allows fast file transfer to popular NLE systems, and saves valuable time.



*Notes on HXR-FMU128

- HXR-FMU128 formatted by a 60i (50i) camcorder cannot be used by a 50i (60i) camcorder.
- Rebooting of the camcorder is needed when HXR-FMU128 is attached while the camcorder power is ON.

Recording Format and Editing Workflow

The Revolutionary AVCHD Format

AVCHD is an efficient data compression method which greatly reduces memory requirements. The new format allows tapeless recording with high image quality in a small file size. This is made possible by the revolutionary MPEG4 AVC/H.264 codec. In addition, the AVCHD file format is spreading rapidly into the market. Many consumer electronic devices already support AVCHD playback, and more are likely to come. Major NLE software manufacturers already support AVCHD ingestion and editing.

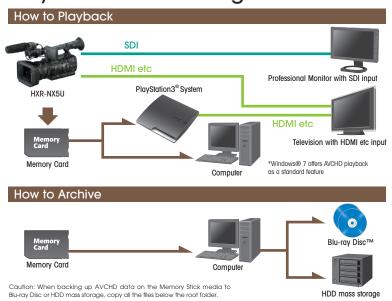
Loss-less Audio Recording Capability

The audio recording format on HXR-NX5U can be selected from either Dolby Digital stereo or Linear PCM stereo. LPCM audio recording provides uncompressed audio quality. Customers who needs high quality audio, such as in music videos will be able to acquire CD quality audio data.

MPEG-2 for SD (standard definition) Recording Format

SD format recording is available in addition to HD format recording. The SD recording format uses MPEG-2 which is the same compression codec as standard DVD-VIDEO Discs. Customers who make delivery in DVD-VIDEOs will be able to obtain video data in sufficient SD quality using this format.

Playback and Archiving







Content Management Utility Software for HXR-NX5U

Content Management Utility is an easy to use Microsoft Windows® software application for clip management and file uploading.

- 1. It allows users to connect divided files due to FAT32 restrictions, which automatically divide files into 2-GB data files during recording.
- 2. The new Sony dual memory card relay recording system record clips onto separate cards, if the clip exceeds the capacity of a single memory card. Content Management Utility software also connects clips divided onto several cards made by relay recording.
- 3. Content Management Utility software maps any GPS data embedded in video data.

Content Management Utility





PC Software		Content Management Utility 1.0.00
System OS Requirements		Microsoft Windows® XP SP3*, Windows Visto® SP2**, Windows® 7 *64-bit editions and Starter (Edition) are not supported. ** Starter (Edition) is not supported. Standard installation is required. Operation is not assured if the above OS has been upgraded or in a multi-boot environment.
	CPU	Use an Intel Core 2 Duo™ 2.20 GHz CPU or faster to play back videos with high definition image quality (HD) if recorded using the highest quality mode. Videos with high definition image quality (HD) recorded in other quality modes may be played back with a slower CPU. Depending on the performance of your video card, videos with high definition image quality (HD) recorded using the highest quality mode may be played back with a slower CPU than that recommended above. For the following operations, an Intel Pentium® III 1GHz or faster is necessary. Importing videos to a computer Processing videos with standard definition image quality (SD) only
	Memory	Windows® XP 512 MB or more (1 GB or more is recommended.) For processing content with standard definition image quality (SD) only, 256 MB of memory or more is necessary. Windows Vista® 1 GB or more Windows® 7 1 GB or more
	Hard disk	Disk volume required for installation: Approximately 100 MB Only the NTFS or exFAT filesystem can be used for importing videos or registering them for viewing.
	Display	Minimum 1,024 X 768 dots
	Others	USB port (this must be provided as standard, Hi-Speed USB (USB 2.0 compatible))

Notes: Your computer must meet hardware requirements other than those described above for each OS.

Even in a computer environment where the operations are guaranteed, frames may be dropped from movies, resulting in uneven playback. However, imported images will not be affected.

Operations are not guaranteed on all the recommended environments. For example, other open or background applications running on

currently may limit product performance.

Content Management Utility does not support 5.1ch surround sound reproduction. The sound is reproduced in 2ch sound.

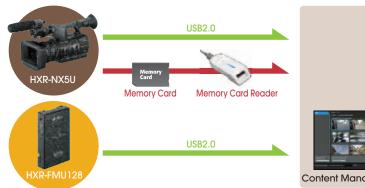
If you use a Notebook PC, connect it to the AC Adaptor as the power source. Otherwise, the software will not work properly due to the power saving function of the PC.

Recording Format and Editing Workflow

Editing Workflow

For Windows users

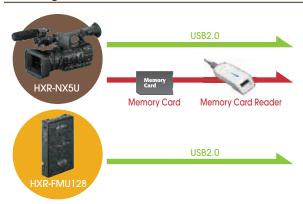
Use Content Management Utility Software to ingest





For Final Cut Pro® Users

Use "Log & Transfer" and convert to ProRes422 to edit

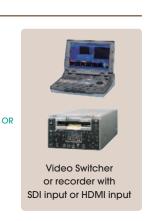




Utilize the SDI or HDMI etc outputs







^{*}Please contact the manufacturer for further detailed information



Operation Functionality

Easy Operation with Newly Designed Menu Interface

The completely new menu interface allows users to adjust camcorder functions via a touch panel or buttons and switches. This interface is newly designed specifically for this model. Easier and more straightforward operations are achieved by the combination of a high-resolution XtraFine™ LCD panel, XtraFine electronic viewfinder (EVF), and well-defined layout.

VISUAL INDEX Button

The VISUAL INDEX button is a one touch button to view the recorded footage. It will instantly change the camera mode from shooting to previewing. Just touch a thumbnail picture of the recorded clip on the LCD panel to select a clip to preview.



MENU Button

The MENU button will instantly lead you to the camera setting menu. Changing the output settings, display settings, timecode settings can be done through this menu.

MODE Button

Functions to manage the media and recorded data can be reached from this MODE button. Formatting the media and dubbing and copying the data can be done through this menu. Smooth Slow Rec can be triggered from this MODE button.

Structure of MODE

CAMERA Button

- → SMOOTH SLOW REC PLAY Button
- → VISUAL INDEX
- → PLAYLIST
- EDIT Button
- → PROTECT
- → PLAYLIST EDIT → PHOTO CAPTURE
- → DIVIDE
- → DELETE



DUB/COPY

- → MOVIE DUB → MEDIA FORMAT
- → PHOTO DUB
- → REPAIR IMAGE DB FILE
- → USB CONNECT

MANAGE MEDIA

Supporting Features

XtraFine LCD Panel

The HXR-NX5U features a 3.2-inch*-type XtraFine LCD panel. It has approximately 921,000 pixels (1920 x 480), and this higher resolution allows easier focus. The XtraFine LCD displays virtually 100% of the recorded picture area at a color temperature of approximately 6500K. The LCD Panel on non-Sony camcorders often have poor contrast and non-standard color temperature. "(viewable area, measured diagonally)

Hybrid Operation with Touch Panel and Buttons

The HXR-NX5U is equipped with a touch panel LCD with a complete new interface specifically designed for this new camcorder. Most of settings can be adjusted by touch screen operation, which is easy, straightforward, and instinctive for operators. However, standard operation using buttons and switches is also available, to provide users with choices to suit any shooting situation.

One-touch Viewing with the Visual Index Button

Thanks to file-based operation, recorded clips can be quickly reviewed by scanning through thumbnail images. This makes it easier and less stressful to search for important clips.



(simulated image)

Well-designed Layout

The ergonomic layout of buttons and switches provides convenient access. Professional user feedback has guided the design processing, making the new HXR-NX5U easy to use.



One-touch Clip-type Microphone Holder

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



Two Screw Holes for Secure Connection

To provide a more secure connection between the camcorder and a tripod plate and other accessories, there are two screw holes in the camcorder's base plate.

XtraFine EVF

The 0.45-inch-type XtraFine electronic viewfinder (EVF) has approximately 1,227,000 pixels (852 x 3 (RGB) x 480). This device has three independent LEDs for Red, Green, and Blue colors. The EVF has a selectable display mode (Color or Black and White mode). It also displays virtually 100% of the recorded picture area at a color temperature of approximately 6500K, and has an improved interface for easier viewing of the on-screen menu.

Hardware Switch for Headphone Monitor

A high-quality headphone monitor jack allows the user to instantly check the quality of recorded audio. The HXR-NX5U is equipped with a hardware switch so the user can change the output to Channel 1 or Channel 2, or mix both channels together. There is no need to go into the menu to change the headphone output.

Versatile Terminal Interfaces

1. HD-SDI

The HXR-NX5U is equipped with an HD-SDI* terminal, making it easier and more convenient to install the camcorder into highend video editing systems. If the system has an HD-SDI input, the camcorder can be connected to the system with a BNC cable. No conversion boxes are needed. The camera's E to E output from the HDSDI terminal will be a 10 bit uncompressed 4:2:2 signal.

*Timecode and audio signals are embedded in the HD-\$DI signal. *SD-\$DI is also available.

2. HDMI terminals

The HDMI interface allows easy connection to consumer electronic devices.

- 3. RCA-pin-type composite and audio outputs terminals
- 4. Component output with AV/R-out
- 5. USB
- 6. Remote Terminal

7. TC Link

By connecting two camcorders with a standard mini-plug cable, using the TC Link function, timecodes of the two camcorders can be synchronized.



Accessories

To expand the variety and possibilities of shooting, using accessories is a simple, efficient choice. How about shooting in darkness or longtime shooting? Shooting under these kinds of situations can be realized much easier with the help of accessories.

Sony makes a variety of compatible accessories available starting from basic necessities, such as batteries, to advanced necessities, such as camcorder supports, which are ergonomically designed to ease the workflow and enhance the creativeness of the users.

The new HXR-NX5U, also is compatible with many of our professional accessories lineup.

For instance, batteries, chargers and LCD hoods will be essential to ensure comfortable shooting. Moreover, shooting supports will ease the stress made by longtime shooting. Take a look at our professional accessories lineup and choose the best combination to meet your shooting style needs.



RM-1000BP

Remote Commander® Unit

- •Multifunction Remote Commander unit
- Controls main camcorder functions
- Better User Interface for professional applications



HXR-FMU128 Flash Memory Unit

An external Flash Memory Recording Unit with a 128GB capacity, capable of recording AVCHD and MPEG2 SD formats, designed exclusively for the NXCAM camcorder. Simple direct attachment to the camcorder and a simple data transfer to the computer via USB 2.0 is available.



UWP-V1 UHF Wireless Microphone Package

- •Consists of Bodypack Transmitter and Portable Receiver
- Portable Receiver can be attached to shoe connector by supplied shoe mount adaptor



ECM-680S

Shotgun-type Electret Condenser Microphone

•Stereo and Monaural Switchable Stereo: Uni-Directional Manoural: Super-cardioid



Shotgun-type Electret Condenser Microphone

- Monaural type
- •Super-cardioid

ECM-673/9X

Shotgun-type Electret Condenser Microphone

- •Monaural type
- •Super-cardioid



VCT-PG11RMB
Tripod with RM-1BP
Remote Controller



VCT-SP1BP

Camcorder Support

- •Weight support for stable/ comfortable shooting
- •Support for several shooting styles (e.g., highangle 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



VCL-HG0872K

Wide Conversion Lens

- •Equivalent to 0.8 magnification
- •High-resolution wide conversion lens for the HXR-NX5U
- •Bayonet mount for quick and easy attachment
- •Supports large French Flag and 4x5.65 inch filter holder
- Quick and convenient integrated lens shutter



HVL-LBPA

LED Battery Video Light

- •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)
- Supplied indoor/outdoor filter kit (5,500K to 3,200K)



VCT-SP2BP

Camcorder Support

- •Three point support (shoulder, chest, operator's hands)
- •Simple but efficient stabilization capable of a variety of shooting styles
- Quick release from tripod including tripods which require VCT-U14
- Fast and easy transformation from tripod mode to support mode



SH-L32WBP

LCD Hood

- •LCD Hood for 3.2"* LCD monitor
- Adjustable shade (360° shade)
- •Folding structure realize transfer with camcorder *(viewable area measured diagonally)

2NP-F970/B InfoLITHIUM

Rechargeable Battery Pack (2 pack)

NP-F970/F770/F570

InfoLITHIUM Rechargeable Battery Pack

RM-1BP

Remote controller



MS-MT32G (16GB, 8GB, 4GB, 2GB, 1GB)

•Memory Stick PRO Duo™Media



AC-VQL1BP

AC Adaptor / Charger

- •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



MS-HX32G (16GB, 8GB, 4GB)

- •Memory Stick PRO-HG Duo HX media
- High speed data transfer *Use the USB adaptor for high speed transfer (20Mbps)



LMD-940W

Professional LCD Monitor

- •800x480 (WVGA) Panel Resolution
- •4:3 / 16:9 Aspect Ratio Selection
- •3 mode power system -AC100V, DC12V, Battery Adaptor
- •3G SDI input / output standard

Specifications

HXR-NX5U

0				
General Weight	(w/ Lane hoor	l with Lone	over)	Approx. 4 lb 15 oz (2.2 kg)
Weight (w/ Lens hood with I (w/ Battery, Lens hood				Approx. 5 lb 11oz (2.6 kg)
	Lens cover, lar	ge eyecup,	NP-F970	Approx. 5 lb 14oz (2.7 kg)
Dimension	ECM-XM1, Mei			1
Dimension (W x H x D)	(Lens hood with Lens cover) (Lens hood with Lens cover, large eyecup, ECM-XM1, NP-F970)		er, large	Approx. 6 7/8 x 7 3/8 x 13 1/2 inch (173 x 187 x 342 mm) Approx. 6 7/8 x 7 5/8 x 17 3/4 inch (173 x 193 x 449 mm)
Power requirements	(AC adaptor /		, , ,	8.4V / 7.2V
Power consumption	(w/ ECM-XM1 brightness)	and LCD wi	th normal	Approx. 7.9 W *When Flash Memory Unit HXR-FMU128 is used, the average
Operating tempera	aturo			power consumption increases about 1.1 W. 0 to +40 deg C (+32 to +104 deg F)
Storage temperatu				-20 to +60 deg C (-4 to +140 deg F)
Battery operating	Continuous re	cording time		Approx. 365 min (NP-F970:fully charged batt.)
time				144
Recording format	Video Format		HD	MPEG-4 AVC/H.264 (AVCHD)
	Acadia Farmant		SD	MPEG-2 PS
	Audio Format		HD	Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz
Recording frame r	rato*]		SD	Dolby Digital 2ch, 16bit, 48kHz
Recording frame i	die			AVCHD FX (24Mbps) 1920 x 1080/60i AVCHD FH (17Mbps) 1920 x 1080/60i
				AVCHD HQ (9Mbps) 1440 x 1080/60i
				AVCHD LP (5Mbps) 1440 x 1080/60i
				AVCHD FX (24Mbps) 1920 x 1080/24p
				AVCHD FH (17Mbps) 1920 x 1080/24p
				AVCHD FX (24Mbps) 1920 x 1080/24p
				AVCHD FH (17Mbps) 1920 x 1080/30p
				AVCHD FX (24Mbps) 1280 x 720/60p
				AVCHD FH (17Mbps) 1280 x 720/60p
				MPEG2 SD HQ (9Mbps) 720 x 480/60i
				MPEG2 SD HQ (9Mbps) 720 x 480/60i (24p Scan)
				MPEG2 SD HQ (9Mbps) 720 x 480/60i (30p Scan)
Recording/Playba	ck time			170 min (2h 50m) with 32GB Memory Stick PRO-HX Duo FX
				(24Mbps) Linear PCM 2ch recording
Zoom ratio				Sony G Lens, 20x (optical), 1.5x Digital Extender
Focal length				f = 4.1 to 82.0 mm (equivalent to f = 29.5 to 590 mm at 16:
Iris				mode, f = 36.1 to 722 mm at 4:3 mode on 35 mm lens)*2 Auto/Manual (F1.6-F11, close)
Focus				AF/MF selectable, 800 mm to ∞ (MACRO OFF), 10 mm to ∞
rocus				(MACRO ON, Wide), 800 mm to ∞ (MACRO ON, Tele)
Image stabilizer				ON/OFF selectable
Filter diameter			72 mm	
Camera Section				
Imaging device				3-chip 1/3-inch type Exmor CMOS with ClearVid pixel array
Effective picture el	ements			Approx. 1,037,000 pixels with ClearVid array
Built-in optical filte	ers			Clear, 1/4, 1/16, 1/64
Minimum illumino	ition			1.5 lx (auto gain, auto iris, 1/30 shutter)
Shutter speed	Aut	-		60i/60p: 1/60-1/2000, 30p: 1/30-1/2000, 24p: 1/48-1/2400
		nual		60i/30p/60p: 1/4 - 1/10000, 24p: 1/3 - 1/10000
Slow & Quick Mot	ion function			120 fps (fixed) as improved Smooth Slow Rec *The picture quality is degraded.
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)
Gain				Auto/Manual (-6dB - 21dB, 3dB step)
Inputs/Outputs				
Audio input				XLR 3-pin (female) (x 2), LINE/MIC/MIC +48 V selectable
Composite output				RCA Type (x 1)
Audio output			RCA type(CH-1,CH-2)	
Comonent output			RCA Type (x 3) via Mini-D jack	
SDI output			BNC (x 1), HD-SDI/SD-SDI selectable	
USB			USB device, Mini-B/Hi-Speed (x 1)	
Headphone output			Stereo mini jack (x 1) ø3.5mm	
Speaker output			Monaural	
DC input			Power code	
Remote				Remote: Stereo mini-mini jack (x 1)ø2.5mm
HDMI output				HDMI connector (x 1)
Monitoring				0.45 inch has sensey 1.000.000 data (000 a 00000000000000000000000000000
Viewfinder Built-in LCD moni	tor			0.45 inch-type approx. 1,226,880 dats (852 x 3[RGB] x 480 16:9 aspect ratio
				3.2 inch-type, XtraFine LCD, approx. 921,600 dots(1920 x 480), hybrid type, 16:9 aspect ratio
Built-in Microphor	ie.			stereo microphone
				Sicroo microphone

Media	
Туре	Memory Stick PRO Duo(Mark2)™, Memory Stick PRO-HG Duo™, Memory Stick PRO-HG Duo HX™ *3
	SD/SDHC Memory Card*4
	Flash Memory Unit
Supplied Accessories	
AC Adaptor/Charger	AC-VL1
Rechargeable Battery Pack	NP-F770
Connecting cord	DK-415
Microphone	ECM-XM1
Remote Commander	RMT-845
Component video cable	
A/V connecting cable	
USB cable	
Large eyecup	
Lens hood with lens cover	
Accessory shoe kit	
Lithium Battery	CR2025
Application Software (CD-ROM)	

- *1 Due to variable bitrate, 24Mbps is the maximum bitrate for AVCHD FX mode and the average bitrate is being stated for FH, HQ and LP modes.

 *2 The focal length is when StadyShot mode is in StadyShot or Off.

 *3 Compatible *Memory Stack** yes or AVCHD recording / Capacity; more than 168, For standard definition recording / Capacity; more than 512MB

 *4 Recommended Speed Class For AVCHD recording / Class 4 or higher, For standard definition recording / Class 2 or higher

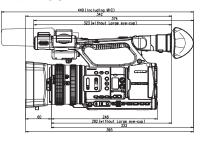
HXR-FMU128

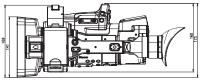
Flash Memory	Recording Capacity	128GB*
	File System	FAT32
Interface	Camcorder Connection	Connection Jack
	PC Connection	USB mini-B jack Hi-Speed USB (USB 2.0)
OS Compatibility	OS	Windows® XP SP3 (64bit editions and Starter (Edition) are not supported) Windows Vista® SP2 (Starter (Edition) is not supported) Windows® 7 Mac OS X(v10.4 or later)
General	Weight	2oz (80g)
	Dimension (WxHxD)	Approx. 2 1/4 x 3 3/8 x 21/32 inch (54 x 85 x 17mm) (including the projecting parts)
	Power Requirements	5V (Power supplied from connecting device)
	Power Consumption	Approx. 0.9W (Power supplied from connecting device)
	Operating Temprature	+32 to +104 deg F (0 to +40 deg C)
	Storage Temprature	-4 to +140 deg F (-20 to +60 deg C)
	Supplied Accessories	USB cable (Mini-jack - A-jack)
		Case
		Label

^{*}In this specification, 1GB indicates 1 billion bytes. A portion of the recording capacity is used for data management.

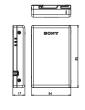
Dimensions

HXR-NX5U





HXR-FMU128





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Features and specifications are subject to change without notice. Weights and measurements are approximate.

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