# HXR-NX30U

## NXCAM Palm-Sized Camcorder

## The HXR-NX30U, a Palm-Sized Go-Anywhere Camcorder Packed with the Features Professionals Demand Plus Balanced Optical SteadyShot™

### The mobile camcorder for the professional videographer

Sony's HXR-NX30U is an ultra-compact, palm-size, professional NXCAM™ camcorder compatible with the latest FULL HD formats including 1080/60p video. It features a 26.0mm ultra wide-angle lens with 10x optical zoom (35mm equivalent: 26-260mm), and a back-illuminated Exmor R™ CMOS sensor for outstanding versatility. Like other NXCAM camcorders, it comes with the features professional users demand, including flexible timecode/user bit settings and XLR audio inputs for high reliability and high sound quality.
One of the HXR-NX30U's biggest advantages is the newly developed Balanced Optical SteadyShot™ image stabilization system. This allows the entire optical block, from the lens to the image sensor, to "float" and absorb movement from the body. The result is extremely effective image stabilization even when zooming in, something previously difficult to achieve, ensuring handheld shooting with a new level of image stability. It is an ideal feature if you are out in the field alone and handheld operation is required while walking or using the zoom. Designed to meet the needs of a wide range of professional situations, the lightweight, compact and affordable HXR-NX30U is a powerful tool for gathering footage alone and as a B-camera during multi-camera shoots.

NXCAM   AVCHD Progressive   MPEG2 SD   Exmor R™ CMOS Sensor   ZEISS   MEMORY STICK ™   SD XC   GPS

## Ultra Wide-angle 26.0mm Carl Zeiss Vario-Sonnar T* Lens and Exmor R™ CMOS Image Sensor

The HXR-NX30U comes with a Carl Zeiss Vario-Sonnar T* lens that minimizes unwanted reflections for faithful color reproduction. It also provides high contrast and high image quality with exceptional resolution from 26.0mm wide angle to 260mm telephoto (35mm equivalent). Thanks to the 6-blade iris diaphragm, you can enjoy exceptionally realistic representations of natural lighting. And when shooting dark scenes, the back-illuminated Exmor R CMOS sensor provides high sensitivity and low noise that are hard to believe come from such a compact unit. What's more, using a 1/2.88-inch type sensor with an aspect ratio of 16:9 is ideal for wide-angle shooting. This lets you record images with even higher definition.

40mm          26mm (HXR-NX30U)

Simulated Images

## Balanced Optical SteadyShot

The innovative Balanced Optical SteadyShot™ image stabilization system virtually eliminates the influence of camera shake by enclosing the entire optical block, from the lens to the image sensor, in a "floating" space. Combined with electronic image stabilization that compensates for rotation around the optical axis, this new system provides powerful image stabilization even when shooting while zooming, which was previously difficult to achieve. So now you can record stable images with minimal blur.
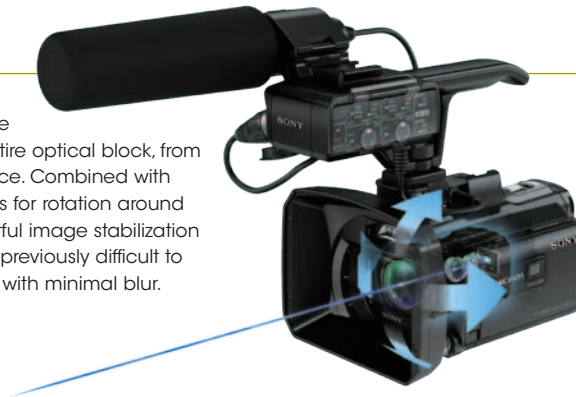
## FIXED SHOT mode

To optimize the effect of Balanced Optical SteadyShot™, the HXR-NX30U features a FIXED SHOT mode. Press a button and this expands the movable range of the optical block to keep you locked on your subject. This is particularly convenient when you want to maintain the same shooting angle for an extended period.

## AVCHD 2.0 1920 x 1080 Full HD 60p Recording with 24.1 Mega (6544 x 3680) pixels[1] still image capture[2]

You can shoot at 60fps progressive (1080/60p) with 1920x1080 Full HD resolution. And using a 24p timeline setting with AVCHD™ 2.0 compatible NLE software enables conversion to smooth slow-motion images up to 2.5x slower. You can also select 1280x720 60p and a wide range of other formats.

1: Realized using the "By Pixel Super Resolution" technology.

2: Dual Rec is not active while recording mode is set to FX or PS.

## 96GB embedded Flash Memory and Memory Stick® / SD Multi Card Slot

The built-in 96GB embedded Flash memory can record and store up to 40 hours of high definition video footage in HD LP mode with Dolby® Digital audio mode. And there is a multi-purpose card slot that lets you record video images on Memory Stick PRO Duo™ or SD cards, giving you a range of options in your choice of recording media. You can also use these readily available cards to copy data from internal memory.
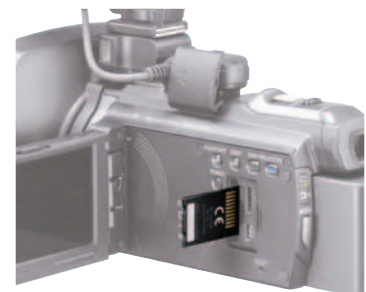
## XLR Adaptor with Selectable Phantom Power and ECM-XM1 Shotgun Microphone Enabling High-Quality Linear PCM Recording

The detachable handle has an ergonomic design that is comfortable and compact. Two balanced XLR audio inputs are built-in with phantom power and attenuation options that professional users require for clean sound quality. Default audio settings for XLR recording are highlighted in green for easy reference in the field in order to reduce operator error under difficult lighting conditions.

The ECM-XM1 shotgun microphone mounted on top of the handle provides audio recording performance similar to larger shoulder-mounted ENG style cameras.

The HXR-NX30U is also ready to record high-quality 48kHz/16 bit Linear PCM audio.

## Timecode/User Bit Recording and HDMI® Embedded Timecode Output

The HXR-NX30U features the important professional camcorder functions of timecode and user bit settings. Like other NXCAM camcorders, the HXR-NX30U's timecodes can be centrally reset using the supplied infrared remote control to allow easy synchronization of video from compatible* camera models. Using NLE software, live footage shot with multiple NXCAM camcorders can be efficiently edited with timecode sync. Timecodes and user bits can also be output through an HDMI jack.

*Compatible Sony NXCAM camcorder models.

## Built-in Light

The built-in light functions as a flash when shooting still images or as an auxiliary light source when recording video. Using the NightShot® mode is particularly effective when recording in low-light conditions and allows you to capture otherwise impossible shots.

## Built-in Projector

A built-in projector can project images up to 100 inches wide (when projecting 15 ft from a screen, 40 inches wide when projecting 6ft from a screen). Large-screen projection of images enables all the staff involved to check the rushes at the end of the shoot and reduces the need for an external display.

## Built-in USB cable for easy file transfer/charge

The high-speed, built-in USB 2.0 cable allows for easy connection to your computer for charging or file transfer without having to remember separate cables. It also fits conveniently into the hand strap so it's out of the way until you need it. Charging your camcorder is faster than ever now through the USB; for every two minutes of charge time you get up to one minute of recording time.

## Direct Copy to external HDD without PC

Back up your footage while you're in the field, directly from your camcorder by attaching an optional USB hard disk drive*, without the need for a computer. Your camcorder can also access videos stored on the external hard drive for playback on your monitor* allowing you to utilize the camcorder's handy playback features.

*Note:
1. Direct Copy is compatible with USB media that meets the following requirements:
   • USB media that meets the USB2.0 requirement.
   • For external HDD or USB memory under 2TB, an AC powered external HDD is recommended.
   • USB media formatted in the FAT32 file system. In the case when USB media is not in FAT32 file system, reformatting is required and all data will be erased.
   Note: There may be cases when USB media is not compatible with the Direct Copy function.
2. When using Direct Copy the camcorder needs to be connected to AC power.
3. Using VMC-UAM1(supplied) cable when the HXR-NX30U is connected to External HDD.
4. Connection via USB-hub is not supported.

## Geotagging with built-in GPS receiver

A built-in GPS receiver makes the HXR-NX30U an ideal choice for professional videographers. The receiver gives you the ability to "tag" your shooting locations as a future reference if you need to return to the same location or to create a log of areas covered when surveying remote locations.

Additionally, the receiver automatically adjusts your camcorder's clock to the proper time zone when international travel is part of your assignment. Your locations can be tracked on Google Maps™** and all GPS data can be extracted with a CMU is supplied PC software.

** Map service requires PC with internet. Service provided by Google and subject to change without notice.

## OPTIONAL ACCESSORIES
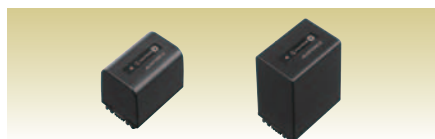
Rechargeable Battery Pack
**NP-FV70** (6.8 V / 14.0 Wh / 2060 mAh)
**NP-FV100** (6.8 V / 26.5 Wh / 3900 mAh)

AC Adaptor/Charger
**AC-VQV10**
(AC 100 V – 240 V)

Battery Charger
**BC-TRV**
(AC 100 V – 240 V)

Accessory Kit
**ACC-VA1BP**
(include NP-FV70, BC-TRV, RM-VD1 etc)
*HXR-NX30U cannot output S Video out

Accessory Kit
**ACC-V1BP** (Include NP-FV100 and AC-VQV10)

Wide Conversion Lens
**VCL-HGA07B** (0.75x)*

Tele Conversion Lens
**VCL-HG1737C** (1.7x)*

Memory Stick PRO-HG Duo™
**MS-HX32B**
(32 GB, 16 GB, 8 GB)

SD / SDHC Memory Card
**SF-32UX**
(32 GB, 16 GB, 8 GB,)

* The supplied step-down ring is required to mount conversion lenses. Conversion lenses cannot be mounted unless the supplied hood is removed. Also, be sure to set the conversion lens mode on the body before using. When using the Wide Conversion Lens setting, switch Balanced Optical SteadyShot off.

# Specifications

## HXR-NX30U

### General

| Weight | (Main unit only) | 1lb 5oz, 615g (Approx.) |
| | (w/ Battery) | 1lb 9oz, 710g (Approx.) |
| | (w/Hood, w/ Battery, w/Microphone, w/ XLR unit ) | 2lb 6oz, 1100g (Approx.) |
| Dimension (W x H x D) | (w/ Battery) | 2 7/8inch x 3 3/4inch x 5 7/8, 71.5mm x 94.5mm x 148mm (Approx.) |
| | (w/Hood, w/ Battery, w/Microphone, w/ XLR unit ) | 5 3/8inch x 7 1/4inch x 12 1/4inch, 135.5mm x 181.5mm x 310.5mm (Approx.) |
| Power requirements | Power Requirements (AC adaptor / Battery) | 8.4V/6.8V |
| Power consumption | LCD - normal brightness (HD FX) | 4.1W |
| | LCD - normal brightness (STD) | 3.8W |
| Operating temperature | | +32 to +104 deg F (0 to +40 deg C) |
| Storage temperature | | -4 to +140 deg F (-20 to +60 deg C) |
| Battery operating time | Continuous recording time | 195 min (VF), 185 min (LCD) (NP-FV70: fully charged batt.) |
| Recording format | Video Format | HD | HD : MPEG4-AVC / H.264 AVCHD format Ver.2.0 compatible |
| | | STD | MPEG-2 PS |
| | Audio Format | HD | Linear PCM/Dolby Digital 2ch, 16bit, 48kHz |
| | | STD | Dolby Digital 2ch, 16bit, 48kHz |
| Recording frame rate[1] | | HD | PS (28Mbps) 1920 x 1080/(60p) 16:9 |
| | | | FX (24Mbps) 1920 x 1080/(60i,30p,24p) ,1280 x 720/60p 16:9 |
| | | | FH (17Mbps) 1920 x 1080/(60i,30p,24p) ,1280 x 720/60p 16:9 |
| | | | HQ (9Mbps) 1440 x 1080/(60i) 16:9 |
| | | | LP (5Mbps) 1440 x 1080/(60i)/16:9 |
| | | STD | SD (9Mbps) 720 x 480/60i/16:9, 4:3 |
| Recording/Playback time | | | 170min (MS 32GB, HD FX, LPCM) 525min (Int. memory 96GB, HD FX, LPCM) |
| Still picture resolution | | | 24.1 megapixels 16:9 (6544x3680), 18.1 megapixels 4:3 (4912x3680) |
| Zoom ratio | | | Carl Zeiss Vario-Sonner T*, 10x (optical), 17x Extended Zoom, 120x Digital Zoom |
| Focal length | | | f = 3.8 mm - 38 mm (equivalent to 26.0 mm - 260 mm (16:9), 31.8 mm - 318 mm (4:3) on 35 mm lens)[2] |
| Focus | | | Full range auto/Manual |
| Image stabilizer | | | Balanced Optical SteadyShot™ w/ Active mode (Wide to Tele) |
| Filter Diameter | | | 52mm (52mm to 37mm step-down ring supplied) |

### Camera Section

| Imaging device | 1/2.88 type ExmorR CMOS with ClearVid pixel array |
| | Pixel Gross:Approx. 6650K Video Actual:Approx. 6140K (16:9) |
| Minimum illumination | 3 lux (Low LUX mode, 1/30(60p or 60i)) |
| Shutter speed | 1/8 - 1/10000 (Manual Shutter Speed Control) |
| Iris | F1.8 - F3.4 |
| Slow & Quick Motion function | 240 fps (fixed) as Smooth Slow Rec *The picture quality is degraded. (fps : Field per Sec.) |
| White balance | Auto, outdoor (5800K), indoor (3200K), One-push (Touch panel) |

### Inputs/Outputs

| Mic input | Stereo mini jack (x 1) ø3.5mm |
| Audio input | XLR 3-Pin (female) (x2), LINE/MIC/MIC+48V selectable |
| A/V output (composite) | A/V Remote connector |
| USB | TypeA, Mini-AB/ USB 2.0 Hi-Speed |
| Headphone output | Stereo mini jack ø3.5mm |
| HDMI output | HDMI mini connector |

### Monitoring

| Viewfinder | 0.5cm(0.2 type) / Color 201,600dots equivalent |
| Built-in LCD monitor | 7.5cm (3.0 type, aspect ratio 16:9) 921,600 dots (1920x480) |

### Bulit-In Microphone

| | 2ch Stereo microphone |

### Bulit-In Projector

| Resolution output / Light output | 640x360 / Up to 20 lumenThrow distance:5m (16ft) for 100"diagonal |
| Throw distance / Screen coverage | 5m (16ft) for 100"diagonal / 10 type - 100 type |
| Projector playback endurance (Battery life) | 205min (w/supplied battery) |

### Built-In Flash (Video Light)

| Flash Compensation | Yes (3 steps) |
| Flash Coverage | Approx. 0.3m - 1.5m |
| Flash Metering System | Pre-flash TTL |
| Flash Modes | Auto / Forced / Prohibited |
| Video Light | Continuous lighting when video shooting and NightShot mode |

### Recording Media

| Internal Memory | 96GB |
| | Memory Stick PRO Duo(Mark2), Memory Stick PRO-HG Duo, Memory Stick PRO-HG Duo HX |
| | SD/SDHC/SDXC Memory Card[3] |

### Supplied Accessories

| | AC Adaptor [AC-L200C/D], Power code, Rechargeable Battery Pack [NP-FV70], Microphone [ECM-XM1], Wind Screen, XLR Adaptor, Lens hood, USB typeA extention cable, A/V connecting cable,USB Adaptor cable (for external HDD) [VMC-UAM1], Wireless Remote Commander [RMT-845], Step-down ring (52mm to 37mm), HDMI cable (typeC), Application Software (CD-ROM) [Content Management Utility] |

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 SteadyShot mode is in Active mode Off.
3 Class 4 or faster

## Dimensions



5 3/8 (135.5)
2 7/8 (71.5)
7 1/4 (181.5)
3 3/4 (94.5)
5 7/8 (148)
12 1/4 (310.5)

Unit: inches (mm)
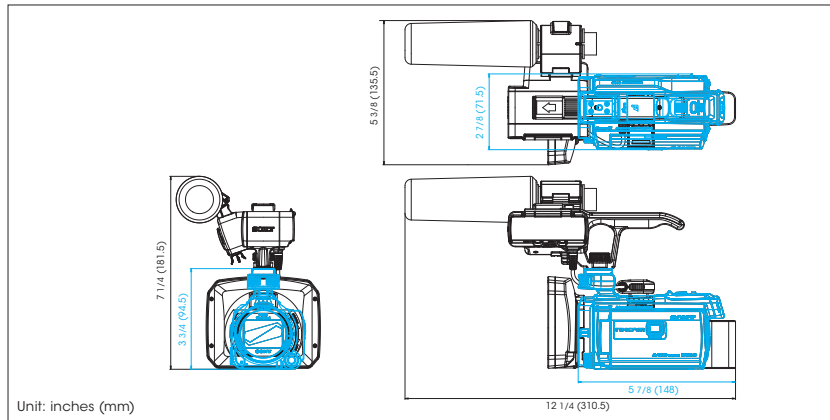
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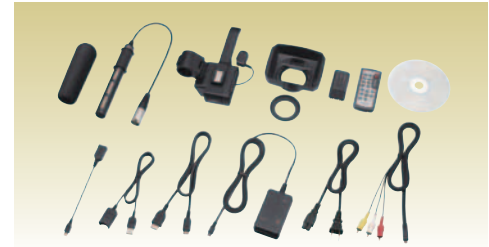


### CMU System Requirements

- Microsoft® Windows® XP Service Pack3 (32 bit), Windows Vista® Service Pack2 (32 bit / 64 bit), Windows® 7
- Intel® Core™2 Duo 2.80 GHz (for AVCHD playback)
- 1 GB of RAM
- 100 MB available hard-disk space for installation
- 1024 x 768 display

## Approximate Recording Time

### HD MOVIE
Linear PCM 2ch (Unit:min)

| | HD 28M (PS) | HD 24M (FX) | HD 17M (FH) | HD 9M (HQ) | HD 5M (LP) |
|---|---|---|---|---|---|
| 8 GB Memory Card | 35 | 40 | 55 | 90 | 145 |
| 16 GB Memory Card | 70 | 80 | 110 | 185 | 295 |
| 32 GB Memory Card | 145 | 170 | 225 | 375 | 590 |
| Internal Memory (96 GB) | 450 | 525 | 700 | 1165 | 1845 |

### STD MOVIE
Dolby Digital 2ch (Unit:min)

| | SD/STD 9M (HQ) |
|---|---|
| 8 GB Memory Card | 110 |
| 16 GB Memory Card | 225 |
| 32 GB Memory Card | 460 |
| Internal Memory (96 GB) | 1430 |