



HXRNX100
1.0-type NXCAM
Camcorder

\$1,949.00

U.S. List Price

UPC: 027242895218

Overview

The HXR-NX100 comes with Sony's unique 20 mega pixel 1.0-type Exmor R back-illuminated CMOS sensor that delivers high resolution and fantastic low light performance, as well as offering more depth of field control as demanded by today's diverse shooting requirements. Three independent manual lens rings provide excellent creative control. A fixed Sony G series lens achieves 12x optical zoom, which can be doubled to 24x with Clear Image Zoom making use of the 1.0 type sensor to still deliver a native resolution 1920x1080 image. You can also double the zoom again using a sophisticated Digital Extender for a maximum 48x zoom. There is also a ND Filter function, allowing you to choose four conventional mechanical ND filter positions that will enhance your ability to work in any shooting scenario. Additional advanced features include dual media slots, "SIMUL" or "RELAY" recording, and independent record control. Recording formats are AVCHD, DV and XAVC S 50Mbps for multiple choices and high quality images. Professional audio quality is made easy thanks to XLR connectors as standard and Multi Interface (MI) Shoe supporting fully integrated wireless audio solutions, such as Sony's UWP-D range.

Highlights

- * 1.0"-type Exmor R CMOS sensor for a wide range of shooting conditions
- * High sensitivity and high resolution
- * Sony G Lens (optical 12x zoom) with Optical SteadyShot
- * 24x Clear Image Zoom, and 48x Digital Zoom
- * Active SteadyShot corrects camera sway that occurs while walking.
- * ND filter control mechanism
- * Three lens ring for focus, zoom, and iris manual control
- * XAVC S recording
- * 59.94p recording at Full HD 1920 x 1080
- * Dual media slots for simultaneous/relay recording, and independent record control
- * Slow & Quick Motion
- * Picture Profile
- * 99 Camera Profiles
- * Multi Interface Shoe (MI Shoe) for flexible connection

Features

Features	Benefits
"The Grand One" 1.0"-type Exmor R CMOS Sensor for stunning picture quality even in low light conditions	The sensor, which is approximately the same size as a Super 16mm film frame, delivers high resolution and fantastic low light performance, as well as offering more depth of field control as demanded by today's diverse shooting requirements. High sensitivity and fantastic resolution with 20 mega pixels(*1) delivers striking detail and colors, with minimum illumination 1.7 lux(*2). (*1) 14,2 million effective pixels. (*2) 1/30 second shutter speed, Iris and gain Auto.
Sony G lens with optical 12x zoom and visual loss-less Clear Image Zoom 24x	The "G Lens" is Sony's original camera lens, designed and manufactured to the highest standards of optical performance. Through original Sony technologies, the "G Lens" achieves superb clarity and sharpness that maximizes the performance of Sony's advanced imaging sensors and camera systems. The HXR-NX100 is supplied with a fixed 29 mm wide-angle Sony G lens. Ideal for capturing grand landscapes, it also provides up to 12x optical zoom, and can be doubled to 24x with Clear Image Zoom which is a Sony unique technology that incorporates By Pixel Super Resolution Technology that analyzes the input image to maintain full resolution. In addition, Digital Extender can double this range again, up to 48x zoom by cropping the scanned sensor area which still has more than full HD pixels.

Three independent manual lens rings	The three lens rings enables smooth, natural adjustment of focusing, zooming and iris control. It can also be used in fullauto mode or completely manual for maximum creative control.
ND filter control mechanism	The HXR-NX100 is equipped with a ND Filter function, allowing you to choose four conventional mechanical ND filter positions (Clear, 1/4ND, 1/16ND and 1/64ND) for better exposure and depth of field control in bright scene).
Dual media slots, "SIMUL" or "RELAY" recording, and independent record control	The HXR-NX100 is equipped with two memory card slots. The camcorder is compatible with SDXC and SDHC cards as well as Memory Stick PRO Duo (Mark 2) and Memory Stick PRO-HG Duo. Two media slots can record in either "SIMUL" or "RELAY" mode. "SIMUL" mode permits simultaneous recording to two memory cards, while "RELAY" mode automatically switches recording from the first to the second memory card when the first is full. The user can set up the two Start/Stop buttons on the HXR-NX100, one on the grip and one on the camcorder body, to independently start and stop recording on different memory cards while recording in "SIMUL" mode.
Multi-Interface (MI) Shoe	The Multi Interface Shoe (MI Shoe) has an electric interface in its mechanical attachment allowing the camcorder to communicate and control an attached accessory. Using an MI Shoe connection with sold separate optional adapter SMAD-P3, the audio signal from a UWP-D series wireless microphone package can be input from the wireless microphone receiver to the camcorder without an XLR cable. The power can be supplied from the camcorder to the receiver and a battery is not required for the receiver operation. When the battery is attached to the LED video light HVL-LBPC, the light can be switched ON and OFF from the camcorder which syncs with recording trigger.
Multi-format recording	The HXR-NX100 records AVCHD and DV which are suitable for conventional workflow, and newly implemented XAVC S 50Mbps which realizes better image quality.
Picture Profile	You can fine-tune the look of movies before shooting by adjusting parameters such as gamma, knee, black level, color model /level/phase and more. Adjusted parameters can be saved along with other settings as a profile, and up to six profiles can be stored for later recall.
99 Camera Profiles	It is possible to save up to 99 camera settings under different profile numbers. User can copy the settings from one HXR-NX100 to another HXR-NX100 so that user can shoot with multiple cameras in the same settings(*3). Also, users can save camera settings for each scene, so that it is possible to recall proper settings for the scene immediately. (*3) Only works exchanging among the HXR-NX100 camcorders.
Timecode and HDMI embedded timecode output	Timecode and user bit settings are important features for professional applications. Timecode is essential for efficient non-linear editing of live footage from multiple NXCAM camcorders. Like other Sony NXCAM camcorders, HXR-NX100 timecode can be reset from the supplied infrared remote control unit, and this allows multiple cameras to be reset simultaneously for easy synchronisation. For extra sync versatility, timecode and user bits can also be output via the camcorder's HDMI jack.
Intelligent Auto	The Intelligent Auto(*4) feature makes it easy to capture beautiful images in a wide variety of shooting situations. This handy feature automatically selects the optimum scene setting from three groups of ten scenes. For example, Intelligent Auto might detect that the user is walking while shooting and automatically select the "Walk" setting from the "Camera Shake" group to ensure that optimum image quality is achieved. (*4) Image stabilisation is automatically set to ACTIVE mode when using the iAuto feature.
Scene Selection	Scene Selection provides professional users with seven presets optimised for situations likely to be encountered on assignments. For example, the Sunrise & Sunset preset instantly optimises the camcorder settings for beautiful reproduction of sunsets or sunrises. The Spotlight preset is ideal for shooting events or similar situations that involve spotlights and stage lighting. Scene Selection is just one more way that the HXR-NX100 can make your job easier.

Specifications

AVCHD Recording Modes (1080 59.94i) Specifications	Detail
HD-FH	17Mbps (1920x1080@59.94i/29.97P/23.98P, 1280x720@59.94p)
HD-FX	24Mbps (1920x1080@59.94i/29.97P/23.98P, 1280x720@59.94p)
HD-HQ	9Mbps (1440x1080@59.94i, 1280x720@59.94p)
HD-LP	5Mbps (1440x1080@59.94i)
PS	28Mbps (1920x1080@59.94P)
Audio Recording Specifications	Detail
Audio Recording Modes	Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz

Camera Specifications	Detail
Filter Diameter	M62 mm
Imaging Device	1.0-type (13.2mm x 8.8 mm) back-illuminated Exmor R CMOS Sensor
LCD Screen	3.5"-type (8.8 cm), Approx. 1.56 M dots.
Microphone	Omni-directional stereo electret condenser microphone
Optics/Lens Lens Type	Please provide data for this field.
Splash-proof	No
Video Signal	Please provide data for this field.
Camera Section Specifications	Detail
Built-in Optical Filters	Clear 1/4ND (2 stops) 1/16ND (4 stops) 1/64ND (6 stops)
Effective Picture Elements	1920 (H) x 1080 (V)
Gain Selection	-3 0 3 6 9 12 15 18 21 24 27 30 33 dB AGC
Minimum Illumination	[60i] 1.7lux (1/30 Shutter Speed, iris/gain AUTO)
Optical System	Please provide data for this field.
Pickup Device	Please provide data for this field.
Shutter Speed (Time)	1/8 - 1/10,000 (1/6 - 1/10,000 when shooting with 24p)
Slow & Quick Motion Function	Full HD 1920x1080p recording: 1, 2, 4, 8, 15, 30, and 60 fps
Exmor R Image Sensor Specifications	Detail
Pixel Gross	Approx. 14.2 M pixels (16:9); Approx. 10.6 M pixels (4:3)
Sensor	1.0"-type (13.2 mm x 8.8 mm) back-illuminated Exmor R CMOS sensor
Video Active	Please provide data for this field.
General Specifications	Detail
Audio Proxy	Please provide data for this field.
Audio Recording	Linear PCM 2ch (48 kHz 16-bit) in XAVC S and DV mode. Dolby Digital 2ch (48 kHz 16-bit) in AVCHD mode.
Continuous Operating Time	approx. 345 min. with NP-F770 battery (while recording with LCD, AVCHD 1080/60i FX) approx. 445 min. with NP-F770 battery (while playback with LCD, AVCHD 1080/60i FX)
Dimensions (W x H x D)	6 3/4 x 7 3/8 x 14 5/8 inches (171.3 x 187.8 x 371.3 mm) (with lens hood, eyepiece, excluding the grip belt and including the projecting parts)
Mass	approx. 3 lb 15 oz (camera body only) approx. 4 lb 10oz (with lens hood, eye piece, and NP-F770 battery)
Operating Temperature	32°F to 104°F (0°C to 40°C)
Power Consumption	approx. 5.2 W (with EVF On) approx. 5.4 W (with LCD monitor On)
Power Requirements	7.2V (battery pack)

	8.4V (AC Adaptor)
Proxy Video	Please provide data for this field.
Recording Frame Rate NTSC Mode	XAVC S (1920 x 1080)@59.94p, 29.97p, 23.98p, 50 Mbps AVCHD (1920 x 1080)@59.94p, PS mode (28 Mbps) AVCHD (1920 x 1080)@59.94i/29.97p/23.98p, FX mode (24 Mbps), FH mode(17 Mbps) AVCHD (1440 x 1080)@59.94i, HQ mode (9 Mbps), LP mode (5 Mbps) AVCHD (1280 x 720)@59.94p, FX mode (24 Mbps), FH mode (17 Mbps), HQ mode (9 Mbps) DV (720 x 480) @59.94i, 25 Mbps
Recording Frame Rate PAL Mode	"XAVC S (1920 x 1080)@50p, 25p, 50 Mbps AVCHD (1920 x 1080)@50p, PS mode (28 Mbps) AVCHD (1920 x 1080) @50i/25p, FX mode (24 Mbps) FH mode(17 Mbps) AVCHD (1440 x 1080)@50i, HQ mode (9 Mbps) LP mode (5 Mbps) AVCHD (1280 x 720)@50p, FX mode (24 Mbps) FH mode (17 Mbps) HQ mode (9 Mbps) DV (720 x 576) @50i, 25 Mbps"
Recording Media	Memory Stick Pro Duo(TM) and SD/SDHC/SDXC compatible(x1) SD/SDHC/SDXC (x1)
Recording/Playback Time	XAVC S HD@LPCM 2ch 50 Mbps approx. 155 min with 64 GB memory card AVCHD@LPCM 2ch PS Mode approx. 290 min with 64 GB memory card approx. 145 min with 32 GB memory card AVCHD@LPCM 2ch FX Mode approx. 340 min with 64 GB memory card approx. 170 min with 32 GB memory card AVCHD@LPCM 2ch FH Mode approx. 450 min with 64 GB memory card approx. 225 min with 32 GB memory card DV approx. 280 min with 64 GB memory card approx. 140 min with 32 GB memory card
Storage Temperature	-4°F to +140°F (-20°C to +60°C)
Video Recording Format	XAVC S HDMPEG4-AVC/H264, 4:2:0 Long profile AVCHD : Linear PCM 2ch, 16-bit, 48 kHz / Dolby Digital 2ch, 16-bit, 48 kHz DV : Linear PCM 2ch, 16-bit, 48 kHz
Weight	Approx. 3 lb 15 oz (camera body only) Approx. 4 lb 10oz (with lens hood, eye piece, and NP-F770 battery)
Included Lens Specifications	Detail
35mm Equivalent	equivalent to f = 29.0 - 348.0 mm on 35 mm lens (16:9) equivalent to f = 35.5 - 426.0 mm on 35 mm lens (4:3)
Filter Diameter	M62mm
Focal Length	f = 9.3 - 111.6 mm equivalent to f = 29.0 - 348.0 mm on 35 mm lens (16:9) equivalent to f = 35.5 - 426.0 mm on 35 mm lens (4:3)
Focus	Auto/Manual selectable
Image Stabilizer	ON/OFF selectable, shift lens
Iris	F2.8 - F4.5 (auto/manual selectable)
Lens Type	Please provide data for this field.
Maximum Relative Aperture	Please provide data for this field.
Optical Zoom	12x (optical), servo
Zoom Ratio Selectable	Please provide data for this field.
Inputs and Outputs Specifications	Detail
AES/EBU Input	Please provide data for this field.
Active Interface Shoe	Please provide data for this field.
Audio In	XLR 3-pin female (2) - MIC: -48 dBu/3 k (kilohms) - LINE: +4 dBu/10 k (kilohms) (0 dBu = 0.775 Vrms)
Audio Out	RCA type (CH-1, CH-2)
Component Out	HDMI Type A (x1)
Composite Video Out	BNC x1
DC In	Power cord

DC Out	Please provide data for this field.
Digital Audio/Video Output(s)	HDMI connector - Type A (1)
Earphone	Stereo mini jack (x1)
Genlock In	Please provide data for this field.
Gigabit Ethernet	Please provide data for this field.
Lens Connector	Please provide data for this field.
Light	NO
MIC In	XLR 3-pin female(2) -48 dBu/3 K (kiloohms) (0 dBu = 0.775 Vrms)
Monitor Speaker	Please provide data for this field.
Remote	Stereo mini-minijack (Ø 2.5 mm) partially LANC compatible
S-Video Out	Please provide data for this field.
SDI In	Please provide data for this field.
SDI Out	Please provide data for this field.
TC In	Please provide data for this field.
TC Out	Please provide data for this field.
USB	Multi/ Micro USB jack (x1)
i.LINK	Please provide data for this field.

Lens Specifications		Detail
Lens Mount		fixed lens
Monitoring Specifications		Detail
Built-in LCD Monitor		3.5"-type LCD, Approx. 1.56 M dots.
Viewfinder		0.24"-type LCD, Approx. 1.56 M dots.

Accessories

Supplied Accessories

Model:	Description:	U.S.List Price
	Lens hood (1)	Pricing available upon request
	Lens cap (1), pre-installed to the Camcorder	Pricing available upon request
	EVF eyepiece (1)	Pricing available upon request
	USB cable (1)	Pricing available upon request
	NP-F770 Rechargeable battery pack (1)	Pricing available upon request
	AC-L100C AC Adaptor (1)	Pricing available upon request
	Power cord (mains lead) (1)	Pricing available upon request
	battery charger (1)	Pricing available upon request
	IR Wireless Remote Commander (RMT-845)(1)	Pricing available upon request
	Lithium battery CR2025 (pre-installed to the IR Wireless Remote Commander)	Pricing available upon request
	Operating Guide	Pricing available upon request
	Warranty (1)	Pricing available upon request
	*Shotgun microphone is not supplied.	Pricing available upon request

Optional Accessories

Model:	Description:	U.S.List Price
2NPF970/B	InfoLithium L Series Rechargeable (2) Battery Package	\$250.00
LCNX100SKB	SKB Hard Carrying Case For HXR-NX100	\$194.00

SMADP3	MI SHOE ADAPTER	\$59.99
UWPD11/30	Lav Mic, Bodypack TX and Portable RX Wireless System	\$799.99
RM1BP	Remote Commander	\$257.50
UWPD12/30	Handheld Mic TX and Portable RX Wireless System	\$799.99
VCLHG0872K	Wide Conversion Lens	\$880.00
VCTSP2BP	Camcorder Support	\$520.00
ECMVG1	Shotgun Microphone	\$260.00
UWPD16/30	Lav Mic, Bodypack TX, Plug-on TX and Portable RX Wireless System	\$1,029.99
ECMMS2	Stereo Microphone	\$375.00
HVLLBPC	High Power LED Video Light	\$649.99
ACCL1BP	Power supply & fast dual charger for HDV and NXCAM camcorders using L series batteries.	\$280.00

Resources

Brochure

Description:	Release Date	Type/Size	
HXR-NX100 Large 1.0-inch Type CMOS Compact Solid-State Memory Camcorder		pdf / 2,676K	Download now
XDCAM/NXCAM Camcorder Family Brochure		pdf / 4,882K	Download now