SONY

HXR-NX100
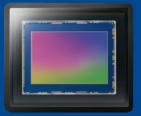## 1.0-type CMOS Compact Solid-State Memory Camcorder

This compact handheld NXCAM professional camcorder bring benefits of 1.0 type sensor technology and high operability with 3 independent manual lens rings in its easy-to-use body to a wider professional market.
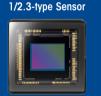
The Grand One

1.0-type Exmor® R CMOS Sensor for stunning picture quality

Sony's unique 1.0-type Exmor R back-illuminated CMOS 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 colours, with minimum illumination 1.7 lux[*2].

*1 14.2 million effective pixels   *2 1/25 second shutter speed, Iris and gain Auto.

1.0-type Sensor

1/2.3-type Sensor

1/3-type Sensor

13.2 mm × 8.8 mm   5.9 mm × 4.4 mm   4.8 mm × 3.6 mm

Maximum 48x zoom for wide range shooting

The Sony G lens offers a 12x Optical Zoom from 29mm angle of view at wide end, which can be increased to 24x with Clear Image Zoom while retaining full resolution thanks to By Pixel Super Resolution Technology. Zoom performance can be doubled at any point with a Digital Extender up to 48x.

Three independent manual lens rings, built-in 4-step ND filter and other professional functions

3 Manual lens rings ensure intuitive control of zoom, focus and iris. The HXR-NX100 is equipped with 4 step conventional mechanical ND filter positions (Clear, 1/4ND, 1/16ND and 1/64ND) for better exposure and depth of field control in bright scene, 0.24 type 1550K dots EVF and 3.5 type 1550K dots LCD for easy monitoring.

Dual media slots for recording flexibility

Two memory card slots enable various recording options such as backup, simultaneous, relay and independent recording.
"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 also use buttons on the camcorder to independently start and stop recording on different memory cards.

Wide choice of connections

The NX100 provides a wide variety of connectivity options including HDMI, Multi/Micro USB, XLR terminals, REMOTE, Composite (BNC) and Multi Interface (MI) Shoe, which allows for a wide range of accessories without the need for cables, such as the HVL-LBPC Video Light and the UWP-D wireless microphone series.

Breadth of recording format capabilities

The NX100 provides multiple choices including AVCHD and DV which are suitable for conventional workflow, and newly implemented XAVC S 50Mbps ,which realizes better image quality for professional needs.

4-Step ND filer
(Clear, 1/4ND, 1/16ND, 1/64ND)

Iris ring

Zoom ring

Focus ring

0.24 type 1550K dots EVF

AUDIO INPUT (XLR × 2)

VIDEO OUT,
Composite (BNC)

Dual Memory card slots

AUDIO OUT (RCA)

Headphone OUT

HDMI OUT

REMOTE

DC IN

MULTI/MICRO USB

NXCAM   AVCHD Progressive   XAVC S   G Sony Lens G   Exmor R CMOS Sensor   MEMORY STICK   SDXC

Specifications

General	HXR-NX100
Mass	Approx. 1900 g (4 lb 3 oz) (body)
	Approx. 2100 g (4 lb 10 oz) (with lens hood, eyecup, NP-F770 battery)
Dimensions (W × H × D)*[1]	171.3 × 187.8 × 371.3 mm (6 3/4 × 7 3/8 × 14 5/8 inches) (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts)
Power Requirements	DC In: 8.4 V, Battery: 7.2 V
Power Consumption	Approx. 5.8 W (while recording with viewfinder and XAVC S HD 1080/50i 50 Mbps)
	Approx. 6.0 W (while recording with LCD and XAVC S HD 1080/50i 50 Mbps)
Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Battery Operating Time	Approx. 315 min. with NP-F770 battery (while recording with LCD, XAVC S 1080/50i, 50 Mbps)
	Approx. 525 min. with NP-F770 battery (while playing with LCD, XAVC S 1080/50i, 50 Mbps)
Recording Format (Video)	XAVC S HD: MPEG4-AVC/H.264 Long profile
	AVCHD: MPEG-4 AVC/H.264 AVCHD 2.0 format compatible
	DV
Recording Format (Audio)	XAVC S HD: Linear PCM 2ch, 24-bit, 48 kHz
	AVCHD: Linear PCM 2ch, 16-bit, 48 kHz / Dolby Digital 2ch, 16-bit, 48 kHz
	DV: Linear PCM 2ch, 16-bit, 48 kHz
Recording Frame Rate	XAVC S (1920 × 1080)@50p, 25p, 50 Mbps
	AVCHD (1920 × 1080)@50p, PS mode (28 Mbps)
	AVCHD (1920 × 1080)@50i/25p, FX mode (24 Mbps), FH mode (17 Mbps)
	AVCHD (1440 × 1080)@50i, HQ mode (9 Mbps), LP mode (5 Mbps)
	AVCHD (1280 × 720)@50p, FX mode (24 Mbps), FH mode (17 Mbps), HQ mode (9 Mbps)
	DV (720 × 576)@50i, 25 Mbps
Recording	XAVC S HD@LPCM 2ch 50 Mbps Approx. 155 min with 64 GB memory card *SDXC Memory Card is needed for recording XAVC-S
	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

Lens	
Lens Mount	Fixed
Zoom Ratio	12x (optical), servo
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)
Iris	F2.8 - F4.5 auto/manual selectable
Focus	AF/MF selectable, 10 mm to ∞ (Wide), 1000 mm to ∞ (Tele)
Image Stabilizer	ON/OFF selectable, shift lens
Filter Diameter	M62 mm

Camera Section	HXR-NX100
Imaging Device (Type)	1.0-type (13.2 mm × 8.8 mm) back-illuminated Exmor R CMOS sensor
Effective Picture Elements	Approx. 14.2 M pixels (16:9)/Approx. 10.6 M pixels (4:3)
Built-in Optical Filters	OFF: Clear, 1: 1/4ND, 2: 1/16ND, 3: 1/64ND
Minimum Illumination	[50i] 3 lux (1/50 Shutter Speed, iris/gain AUTO)
	[50i] 1.7 lux (1/25 Shutter Speed, iris/gain AUTO)
Shutter Speed	[50i]: 1/6 - 1/10,000
Slow & Quick Motion Function	[50i]: 1080p: Frame rate selectable 1.2.3.6.12.25, 50 fps
White Balance	Preset (Indoor: 3200K, Outdoor: 5600K±7 steps, Color temperature set range: 2300-15000K), Onepush A, B, Auto selectable
Gain	-3, 0, 3, 6, 9, 12,15, 18, 21, 24, 27, 30, 33 dB, AGC
Gamma Curve	Selectable

Input/Output	
Audio Input	XLR-type 3-pin (female) (×2), line/mic/mic +48 V selectable
Video Output	BNC (×1), Composite 1.0Vp-p, 75 Ω
Audio Output	RCA pin
SDI Output	–
USB	Multi/Micro USB jack (×1)
Headphone Output	Stereo mini jack (×1)
Speaker Output	Monaural
DC Input	DC jack
Remote	Stereo mini mini jack (×1)
HDMI Output	Type A (×1)

Monitoring	
Viewfinder	0.6 cm (0.24 type), Approx. 1.56 M dots.
LCD	8.8 cm (3.5 type), Approx. 1.56 M dots.

Built-in Microphone	
	Omni-directional stereo electret condenser microphone.

Media	
Type	Memory Stick Pro Duo™ and SD/SDHC/SDXC compatible (×1), SD/SDHC/SDXC (×1)

Wi-Fi/NFC	
Supported Format	–
Frequency Band	–
Security	–
NFC	–
Streaming	–
FTP	–

Supplied Accessories	
	Charger (1), Lens hood (1), Lens cap (1), Large eyecup (1), Shoe cap (1), USB cable (1) Rechargeable battery pack (NP-F770) (1), AC Adaptor (AC-L100C) (1), Power cord (mains lead) (1) Wireless Remote Commander (RMT-845) (1), Lithium battery (CR2025 for the Wireless Remote Commander, pre-installed to the Wireless Remote Commander) (1), Operating Guide (2), CD-ROM (1), Warranty (1)

*1 The values for dimensions are approximate.

Available Accessories

2NP-F970/B
Rechargeable Battery Pack

ACC-L1BP
AC Adaptor/Charger/Battery Kit

HVL-LBPC
LED Battery Video Light

UWP-D11/UWP-D12
Wireless Microphone Package

SMAD-P3
MI Shoe Mount Adaptor
* required for cable-free operation with UWP-D11/UWP-D12

ECM-VG1
Electret Condenser Microphone

ECM-MS2
Electret Condenser Microphone

VCL-HG0872K
Wide Conversion Lens

SF-128UX2
(128 GB, 64 GB)
SDXC Memory Card

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

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

RM-1BP
Remote Commander

LCS-G1BP
Soft Carrying Case

LCS-BP1BP
Soft Carrying Case

Dimensions

171.3 (6 3/4)
149.6 (5 7/8)
187.8 (7 3/8)
223.2 (8 3/4)
257.9 (10 1/8)
371.3 (14 5/8)
Unit: mm (inches)

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