SONY

HXR-NX5R

Full-HD Compact Camcorder
3CMOS with latest technology

nxcam Exmor FULL HD 3CMOS XAVC S AVCHD Progressive G Sony Lens G SDXC

Made in JAPAN

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Full-HD Compact Camcorder 3CMOS with latest technology

The HXR-NX5R is the ultimate Full HD handheld camcorder – a feature packed successor to the best-selling HXR-NX5 and HXR-NX3 with XAVC S recording, 3G-SDI output and wireless workflow. Trust in this multi-purpose workhorse for everything from corporate video to education, live events to weddings.

Stunning pictures made easy

Designed to get the job done quickly and efficiently, the NX5R's advanced three 1/2.8-type Full HD Exmor CMOS system can be relied upon to deliver sharp, cleanly focused imagery in almost any shooting scenario. Recorded images are remarkably lifelike in texture and detail, while shooting is fast and hassle-free with all the NX5R's key functions right at your fingertips. Direct Menu options display on-screen, so shooting parameters can be changed quickly and conveniently without taking your eyes off the action.

Working smarter

The NX5R's advanced network functions mean there's no need for expensive add-on's to take advantage of new business opportunities or speed-up your workflow efficiency. The HXR-NX5R is ready to go straight out of the box, whatever the business opportunity today or tomorrow – live streaming events, multi-camera shoots and FTP'ing breaking news to your editor are all just a button press away.

Simple multi-camera shoots

The NX5R is also an ideal partner for Sony's innovative MCX-500 Multi Camera Live Producer* – an affordable, easy to operate and fully featured switcher that delivers broadcast quality results. Expand your business with multi-camera shoots for live presentation, live streaming and recording across a wide number of applications.

* RM-30BP Remote Commander required for advanced integrated functionality.

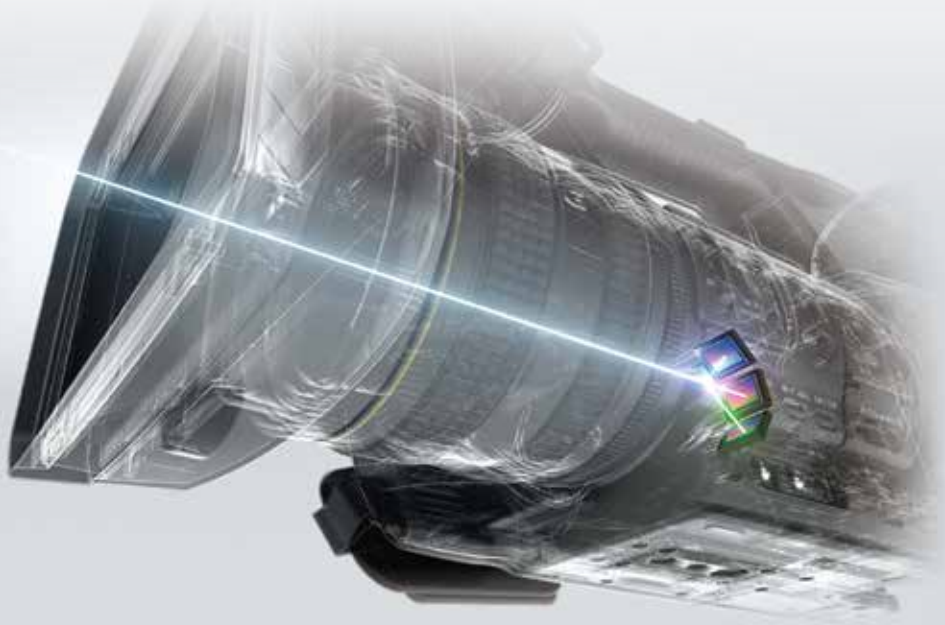
Everything you need

Forget about expensive accessories, the NX5R's built-in features include an adjustable brightness LED video light, 3G-SDI terminal with Full HD 60p/50p output and advanced Multi-Interface (MI) Shoe to power and control key accessories. HXR-NX5 and HXR-NX3 accessories are fully compatible*, including Sony's popular L-Series batteries, so your existing investment is protected. Widely available consumer SDHC and SDXC media make shooting with 5XR both economical and convenient.

* HXR-FMU128 is not supported as dual-relay recording built into NX5R.

Rich colour imagery

The NX5R offers latest generation imaging performance, with Full-HD progressive image capture rather than the interlaced output of the original HXR-NX5. Its three 1/2.8-type Full HD Exmor CMOS sensors provide 2.07 million effective pixel count at the 16:9 aspect ratio. Red, blue, and green light are independently captured by separate image sensors, contributing to high resolution, high sensitivity and wide dynamic range. An advanced LSI (featuring intelligent noise reduction, enhanced detail reproduction and distortion correction technologies) delivers remarkably lifelike images.



Built-in LED lighting

An easily adjustable brightness LED video light is positioned just above the camcorder's built-in microphone, providing convenient illumination for a wide range of shooting situations and minimising the need to carry external lighting equipment. Illumination is approximately 200 lux/1m (approx. 800 lux/0.5m) with a beam angle of 30° and a colour temperature of approximately 5500K.

* An external microphone connected via the XLR connector may cast a shadow if used simultaneously with the built-in LED video light.

Minimum

Maximum

Diffuser

Networked for high usability

Live internet stream from any event using hassle-free live streaming service or a generic streaming mode for a local area network for a secure corporate presentation.

Remote control makes the NX5R perfect for multi-camera shoots. Mount on a tripod and use your smart phone or tablet to monitor and control focus, zoom, iris, REC START/STOP and more*.

FTP allows you to click and send Full-HD content to your editor for fast breaking news stories.

• Sony's Content Browser mobile application can be downloaded from free or charge from the Google Play Store or App Store.

Wide choice of connections including 3G-SDI

The NX5R provides all the connectivity options professionals expect, including 3G-SDI (Full HD 50p/60p output), plus REMOTE, composite (BNC) and audio XLR terminals.

Multi-Interface (MI) Shoe

The NX5R takes advantage of Sony's flexible Multi-Interface (MI) Shoe, which provides power, signal connections and coordinated on/off switching to compatible Sony accessories. For example, you can connect and control Sony wireless microphone systems such as the UWP-D11 or UWP-D12 (sold separately).

Dual media slots

To extend recording time and workflow flexibility, the NX5R has dual media slots compatible with SDXC and SDHC cards as well as Memory Stick PRO Duo (Mark 2) and PRO-HG Duo. Relay mode automatically switches recording from the first to the second memory card when the first is full; Simul mode allows simultaneous recording to two memory cards (for example to create a back-up). Start/Stop buttons on the NX5R's handle grip and camcorder body can independently start and stop recording on different memory cards in Simul mode.

Get closer with 40x zoom

The NX5R'S high-performance Sony G lens offers an expansive 28.8 mm (35mm full-frame format equivalent) angle of view at the wide end and a stunning 40X zoom.

The 20x optical zoom range will easily cover most shooting situations, but when more reach is required, Sony's advanced Clear Image Zoom employs Super Resolution Technology to double your optical zoom up to 40x while still delivering exceptional image quality.

Optical Zoom

Clear Image Zoom

Multi-format recording

The NX5R is designed to provide the absolute best performance for Full HD productions, recording in AVCHD and DV to support proven legacy workflows, as well as the newer, more advanced XAVC S at 50Mbps.

XAVC S offers stunning picture quality, but also workflow flexibility and storage efficiency. In XAVC S, the NX5R uses the MP4 file format, sampling at 50Mbps. Compared to AVCHD, XAVC S 50Mbps captures more details and less noise thanks to the higher bitrate.

Depending on your region, separate models are available offering recording frame rates of 50p Full HD and 50i SD (PAL model), or 60p Full HD and 60i SD (NTSC model).

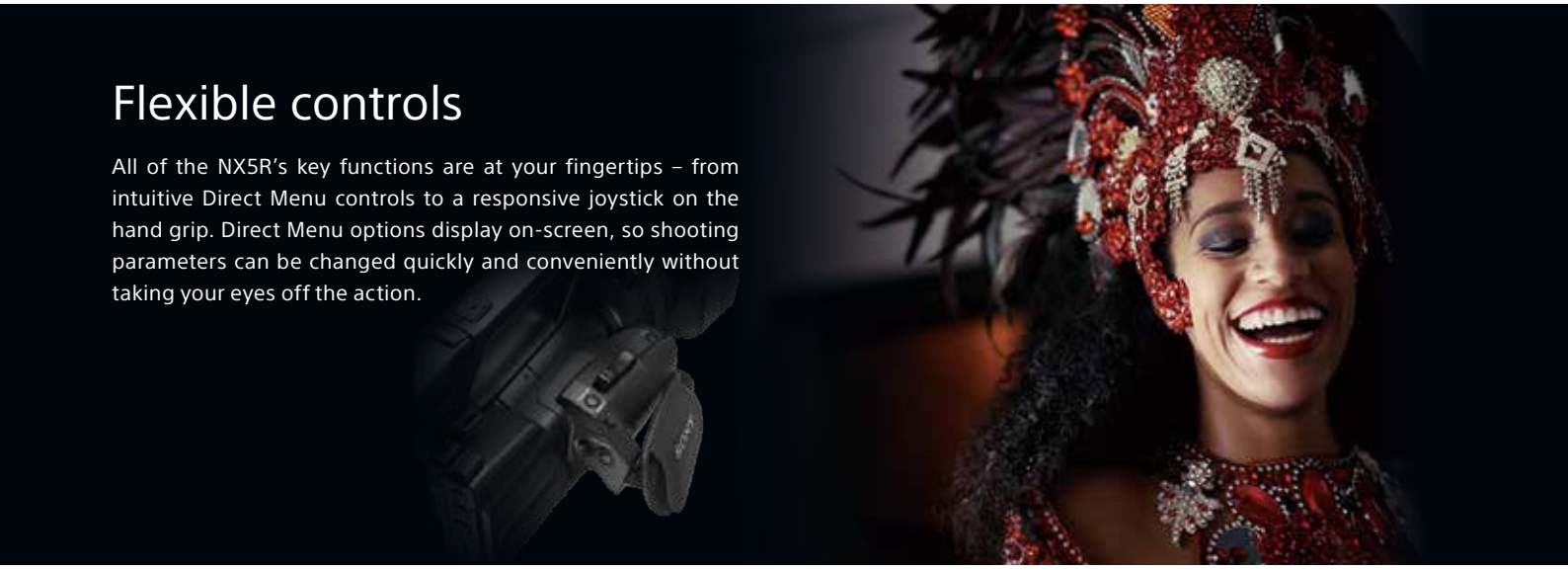
	Format	Color space/bit rate	Max rate
HD	XAVC S	4:2:0/8 bit	50 Mbps
	AVCHD	4:2:0/8 bit	28 Mbps
SD	DV	4:2:0 (50 Hz)/8 bit (NTSC)	25 Mbps
		4:1:1 (60 Hz)/8 bit (PAL)	

AVCHD Progressive

XAVC S

Flexible controls

All of the NX5R's key functions are at your fingertips – from intuitive Direct Menu controls to a responsive joystick on the hand grip. Direct Menu options display on-screen, so shooting parameters can be changed quickly and conveniently without taking your eyes off the action.



Precision monitoring

However you choose to shoot, the NX5R adapts to fit your style. It has a high visibility wide viewing angle and high contrast 0.39-type 1440K OLED viewfinder and an easily adjustable, flip-out 3.5-type 1550K LCD, for precision monitoring and low latency.

Perfect partnership

The NX5R was designed alongside Sony's MCX-500 Multi Camera Live Producer, a robust and cost-effective switcher that makes it easy for one person to run a multi-camera live event shoot. When used with the MCX-500 and RM-30BP Remote Commander, a Tally indicator will automatically appear on each NX5R's LCD panel and Electronic View Finder – a red icon indicates when the shot is live (PGM) while Green indicates preview mode (PVW). The MCX-500 supports up to 9 video inputs, 5 channel stereo inputs including XLR with both internal recording and live streaming service.

Compatible Accessories

2NP-F970/B
Info-Lithium Battery Twin Pack

ACC-L1BP
AC adaptor/charger and battery kit

VCT-SP2BP
Camcorder Support

RM-1BP
Remote Commander

HVL-LBPC
LED battery video light

LCS-G1BP
Soft Carrying Case

VCL-HG0872K
Wide Conversion Lensr

UWP-V1
Wireless Microphone Package

UWP-D11/D12*
Wireless Microphone
*Optional (SMAD-P3) adaptor is required.

URX-P03D*
2-channel Portable Receiver
*Optional (SMAD-P3D) adaptor is required.

ECM-VG1/MS2/673
Electret Condenser Microphone Package

RM-30BP
Remote Commander

HVL-LE1

ECM-W1M

HVL-LE1R1

ECM-XYST1M

CLM-FHD5
Clip-On LCD Monitor

Multi Function Remote Commander

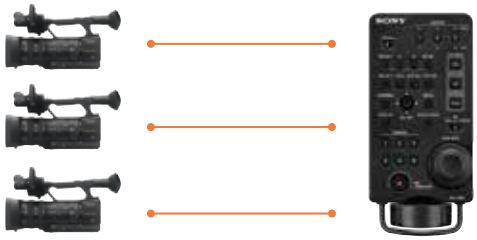
RM-30BP

- Lens control: one push auto / manual focus, iris and zoom control
- Camera control: recording / display functions, shutter speed, white balance - including six assignable buttons
- Playback and multi camera control (up to 3 cameras)

Compact and lightweight operation

Valiant system operation

Multi Camera (Max 3Cameras)



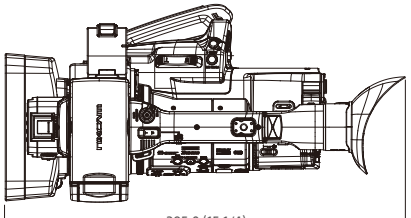
Daisy Chain

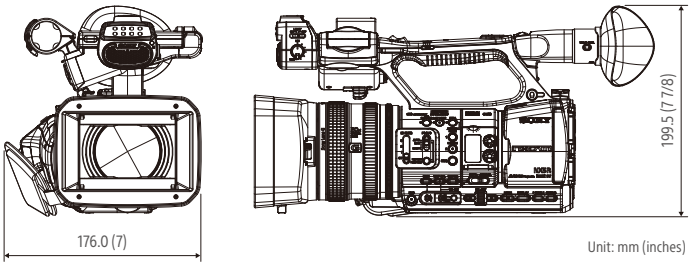
Specifications

	HXR-NX5R
General	
Mass	Approx 2110 g (Approx. 4 lb 10 oz) (body)
	Approx. 2500 g (Approx. 5 lb 8 oz) (with lens hood, ,eyecup, NP-F770 battery)
Dimensions (W x H x D)*1	176.0 × 199.5 × 385.0 mm (7 x 7 7/8 x 15 1/4 inches) (With the accessories (lens hood, large eyecup), excluding the grip belt and including the projecting parts)
Power Requirements	DC In: 8.4V, Battery: 7.2 V
Power Consumption	Approx. 7.5 W (while recording with viewfinder and AVCHD 1080/60i FX)
	Approx. 7.8 W (while recording with LCD and AVCHD 1080/60i FX)
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. 240 min. with NP-F770 battery (while recording with LCD, AVCHD 1080/60i FX)
	Approx. 440 min. with NP-F770 battery (while playing with LCD, AVCHD 1080/60i FX)
Recording Format (Video)	XAVC S HD : MPEG4-AVC/H264 4:2:0 Long profile
	AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible
	DV
Recording Format (Audio)	XAVC S HD : Linear PCM 2ch, 16bit, 48kHz
	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 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/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
Lens	
Lens Mount	Fixed
Zoom Ratio	20x (optical), 40x (Clear Image Zoom), servo/manual
Focal Length	f=4.1 - 82.0mm equivalent to f=28.8 - 576mm on 35 mm lens(16:9) equivalent to f=35.2 - 705mm on 35 mm lens(4:3)
Iris	F1.6 (Wide) - F3.4 (Tele) auto/manual selectable
Focus	AF/MF selectable, 10 mm to ∞ (Wide), 800 mm to ∞ (Tele)
Image Stabilizer	ON/OFF selectable, shift lens
Filter Diameter	M72 mm
Camera Section	
Imaging Device (Type)	3-chips 1/2.8 type "Exmor " CMOS Sensor
Effective Picture Elements	Approx. 2.07M
Built-in Optical Filters	OFF: Clear, 1: 1/4ND, 2: 1/16ND, 3: 1/64ND
Minimum Illumination	60i : 1.2lux (1/30 Shutter Speed, iris/gain Auto)

	HXR-NX5R
Shutter Speed	1/4 - 1/10,000 (1/3 - 1/10,000 when shooting with 24p)
Slow & Quick Motion Function	1080p: Frame rate selectable 1.2.4.8.15.30,60 fps
White Balance	Preset (Indoor: 3200K, Outdoor: 5600K±7 steps, Color temparature set range: 2300-15000K), Onepush A, B, Auto selectable
Gain	-6, -3, 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30 dB, AGC
Gamma Curve	Selectable
Input/Output	
Audio Input	XLR-type 3-pin (female) (x2), line/mic/mic +48 V selectable
Video Output	BNC (×1), Composite 1.0Vp-p, 75 Ω
Audio Output	Stereo mini jack (x1)
SDI Output	BNC type (x1), SD/HD/3G(Level-B) selectable SMTPE 259M/292M/424M/425M standards
USB	Multi/Micro USB jack (x1)
Headphone Output	Stereo mini jack (x1)
Speaker Output	Monaural
DC Input	DC jack
Remote	Stereo mini mini jack (x1)
HDMI Output	Type A (x1)
Shoe	Multi Interface Shoe (x1)
Monitoring	
Viewfinder	1.0 cm (0.39 type) OLED Approx. 1.44 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(TM) and SD/SDHC/SDXC compatible (x1) SD/SDHC/SDXC (x1)
Built-in LED Light	
Luminous intensity	MAX: 1.0m/Approx. 200 lx, 0.5m/Approx. 800 lx MIN: 1.0m/Approx. 20 lx, 0.5m/Approx. 80 lx
Lighting angle	Approx. 30°
Color temperature	Approx. 5,500K
Wi-Fi/NFC	
Supported Format	IEEE 802.11 b/g/n
Frequency Band	2.4 GHz bandwidth
Security	WEP/WPA-PSK/WPA2-PSK
NFC	NFC Forum Type 3 Tag compliant
Streaming	MPEG-2 TS/UDP, RTMP (USTREAM)
FTP	FTP, FTPS
Supplied Accessoies	
	Battery Charger(BC-L1) (1)
	Lens cover with hood (1)
	Large eyecup (1)
	Shoe cap (1)
	USB cable (1)
	Video light diffuser (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) (1), Pre-installed to the Wireless Remote Commander
	Accessory shoe kit (1)
	Operating Guide (2)
	CD-ROM (1)
	Warranty (1)

Dimensions





Unit: mm (inches)

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MK20145V1OHB16AUG