

SONY

Professional Camcorders Family Guide 2017 Spring Version





















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XAVC workflow support partners

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XAVC Workflow Support : NLE Partners and Sony Software Products														
SOFTWARE PRODUCTS		SUPPLIER	XAVC INTRA						XAVC Long GOP (4:2:2) 10 bit				XAVC Long GOP (4:2:0) 8 bit	
			Decode			Encode			Dec		Enc		Dec	Enc
			4K(300)	4K(480)	HD	4K(300)	4K(480)	HD	4K	HD	4K	HD	4K	4K
	Premiere Pro CC 2015 (native)	Adobe	✓	✓	✓	✓	✓	✓	✓	✓	---	✓	✓	✓
	EDIUS PRO 8.22	GV	✓	✓	✓	✓	---	✓	✓	✓	---	✓	✓	✓
	Media Composer 8.6.4 XAVC Plug-in (PDZK-MA2 v3.41)	Sony	✓	✓	✓	✓	✓	✓	✓	✓	---	✓	✓	✓
	FCP-X (native) v 10.2.3 w/ Pro Video Formats v2.0.4	Apple	✓	---	✓	---	---	---	---	✓	---	---	✓	---
	w/ Calibrated {Q} (MXF Import Plug-in)	Calibrated Software	✓	✓	✓	---	---	---	✓	✓	---	---	✓	---
	AVC-Intra Create / AVC-LG Create (Encode Plug-ins for Adobe/ Avid/Apple)	Calibrated Software	---	---	---	✓	✓	✓	---	---	✓	✓	---	✓
	Vegas Pro 14	MAGIX	✓	✓	✓	✓	---	✓	✓	✓	---	✓	✓	✓
	Content Browser v2.4.1	Sony	✓	---	✓	---	---	---	---	✓	---	---	✓	---
	RAW Viewer v2.3	Sony	✓	✓	✓	✓	✓	✓	---	---	---	---	---	---
	Catalyst Browse v2016.2 Catalyst Prepare v2016.2 Catalyst Edit v2016.2	Sony	✓	✓	✓	✓	✓	✓	---	✓	---	✓	✓	✓
	XPRI NS (Standalone)	Sony	---	---	✓ V5.4.2	---	---	---	---	✓ V5.4.2	---	---	---	---

XAVC S Workflow Support by Alliance Partners (Professional)						
SOFTWARE PRODUCTS		SUPPLIER	XAVC S (LONG GOP/MP4)			
			Decode		Encode	
			4K	HD	4K	HD
	Premiere Pro CC (native)	Adobe	✓	✓	---	---
	Premiere Pro CC (with SDNA Video Edit Components)		✓	✓	✓*	✓*
	EDIUS PRO 8.22	Grass Valley	✓	✓	✓*	✓*
	Media Composer 8.6 (native)	Avid	---	---	---	---
	Media Composer 8.6 (with Drastic Technology MediaReactor Workstation for Avid)		✓	✓	---	---
	FCPX 10.2.3 (native)	Apple	✓	✓	---	---
	FCPX 10.2.3 (with Apple Compressor and SDNA Video Edit Components)		✓	✓	✓*	✓*
	Flame Premium 2017	Autodesk	✓	✓	---	---
	Episode 7.1 (Transcode)	Telestream	---	---	---	---
	Vegas Pro 14	MAGIX	✓	✓	✓	✓
	Catalyst Browse /Prepare / Edit v2016.2	SCS	✓	✓	✓	✓

* The exported XAVC S files can be played back on the camera using the Windows version of PlayMemories Home.

Five reasons to like Sony's pro



1. XAVC is designed to scale from 25 Mbps to 960 Mbps

XAVC is designed to scale from 25 Mbps to 960 Mbps. This covers just about every likely frame rate (except ultra slow motion) and includes HD as well as 4K.

2. It is designed for acquisition as well as post production

By going back to the basic building blocks of the format, Sony has been able to make a codec that is equally happy in a camera and in post production and which brings tangible benefits to both. This is much better than with previous generations of H.264-based codecs which were arguably not optimal for use at the front end of production.

3. Better quality than traditional production codecs in less space

ProRes and DNxHD are examples of edit-friendly codecs that are easy to work with because they're relatively simple, and use a low compression ratio. They give great quality at the expense of taking up a bit more room. The more sophisticated algorithms used in XAVC improve the quality for a given bitrate.



4. Dynamically optimises the quality frame by frame

An XAVC encoder optimises quality frame by frame, and while it does this, it records metadata to help decoders understand the optimisations used in the encoding process. So, end-to-end, XAVC maximises quality, but it does so dynamically, so that it doesn't waste space.

5. It's available in professional and consumer formats

XAVC is the professional format, and it's wrapped in an MXF OP1a container - which is standard across broadcast platforms. XAVC-S is the consumer format, and it's wrapped in an MPEG-4 container. It's optimised for consumer use.

Wireless Workflow

Summary of Supported Models

Remote Control *File Transfer and Live Streaming*

PXW-Z150	CBM	WiFi	QOS*
PXW-FS5	CBM	WiFi	
PXW-X200	CBM	4G	QOS
PXW-X180	CBM	4G	QOS
PXW-X70	CBM	WiFi	QOS*
CBK-WA100/101	CBM	4G	QOS

Remote Control and File transfer



HXR-NX3	PlayMemories Mobile	WiFi
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Remote Control Only


PXW-FS7	CBM	
PXW-FS7M2	CBM	
PXW-Z100	CBM	
HXR-MC2500	CBM	WiFi

* After future firmware upgrade

Wireless LAN/LTE Adapters

 4G	4G LTE Dongle *For the Modem dongle, recommended model differs country by country depending on carrier
	Wifi Dongle CBK-WA02 USB wireless LAN Adapter 2.4G/5GHz, 802.11a/b/g/n/ac
	IFU-WLM3 USB wireless LAN module 2.4GHz, 802.11b/g/n

Application Software

CBM	Content Browser Mobile
	PlayMemories Mobile

QOS Technology

PWS-100RX1
Network RX Station **QOS**



Sony's QoS Technology



1. Real-Time ARQ

Automatic Repeat Request

2. ARC

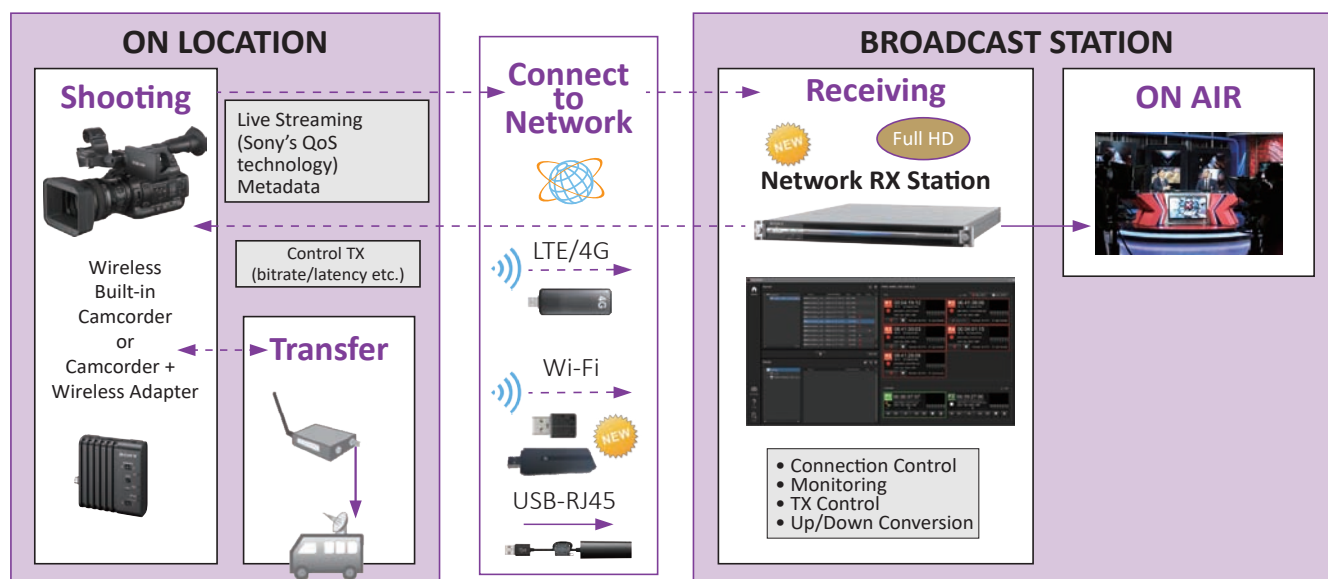
Adaptive Rate Control

3. FEC

Forward Error Correction

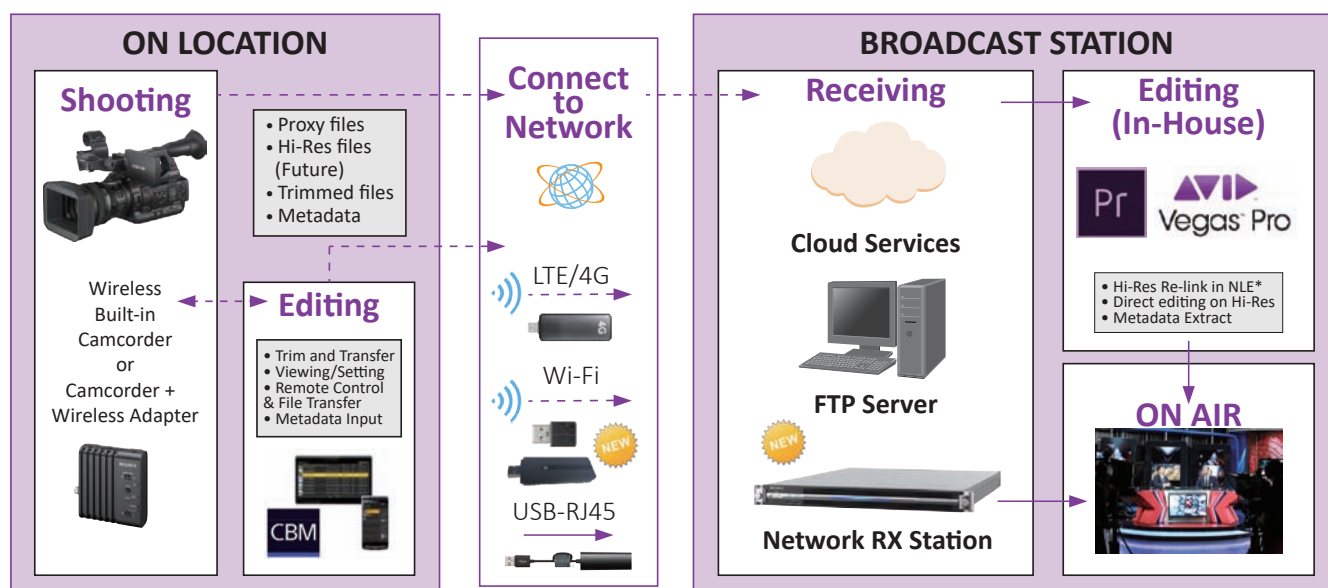
Live Streaming Solution

- Cost efficient solution
- Direct streaming from camcorder
- High quality with Sony's QoS technology
- Choice of transmission Wi-Fi / 4G / USB-RJ45



File Transfer Solutions

- No lost picture or lost audio
- High resolution file transfer available
- Trim and transfer Choice of transmission Wi-Fi / 4G / USB-RJ45



HXR-NX5R

Three 1/2.8-type Full-HD Exmor[®] CMOS sensor NXCAM camcorder



NEW



HXR-NX5R

Rich colour imagery with three 1/2.8-type Full-HD Exmor[™] CMOS sensors and built-in LED lighting



Networked for high usability with 3G-SDI connection, built-in Wi-Fi and Multi-Interface (MI) Shoe



3D-SGI



MI Shoe

20x optical zoom plus Clear Image Zoom provides total 40x zoom range offers effectively no visible quality loss and no pixel loss



Format	Resolution	60Hz		Max bitrate
		Frame Rate		
XAVC S	1920X1080	60p, 30p, 24p	50p, 25p	50Mbps
AVCHD	1920X1080	60p	50p	28Mbps
	1920X1080	60i/30p/24p	50i,25p	24Mbps
	1280X720	60p	50p	24Mbps
	1920X1080	60i/30p/24p	50i,25p	17Mbps
	1280X720	60p	50p	17Mbps
	1440X1080	60i	50i	9Mbps
	1280X720	60p	50p	9Mbps
	1440X1080	60i	50i	5Mbps
DV	720X576	60i	---	25Mbps
	720X480	---	50i	25Mbps

PXW-FS7M2/ FS7M2K

4K Super 35mm Exmor sensor camcorder



Lever Lock Type E-mount gives users the ability to change lenses by rotating the locking collar and don't need to remove the rigs

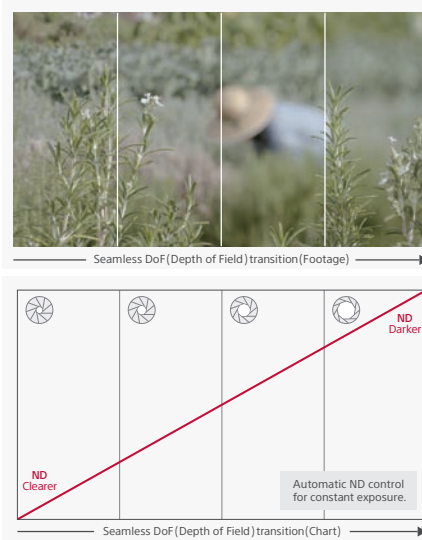


NEW



PXW-FS7M2 /
PXW-FS7M2K

Electronic Variable ND Filter can be manually controlled from 1/4ND to 1/128ND linearly either by the dial on the operator's side of the camera or via the front wheel on the SmartGrip.



Support for BT.2020. It's possible to utilize in a workflow using BT.2020

Format	Wrapper	Quality	Resolution	60Hz	50Hz	Max bitrate
				Frame Rate		
XAVC Intra	MXF	4:2:2 10bit	4096X2160	60p/30p/24p	50p/25p	600/300/240Mbps (60Hz) 500/250Mbps (50Hz)
			3840X2160	60p	50p	600/500Mbps
			3840X2160	30p/24p	25p	300/240/250Mbps
			1920X1080	60p/30p/24p	50p/25p	222/111/112Mbps (60Hz) 185/112Mbps (50Hz)
			1920X1080	60i	50i	111/112Mbps
XAVC Long		4:2:0 8bit	3840X2160	60p	50p	150Mbps
			3840X2160	30p/24p	25p	100Mbps
		4:2:2 10bit	1920X1080	60p/30p/24p 60i	50p/25p 50i	50Mbps
MPEG HD422		4:2:2 8bit	1920X1080	30p/24p 60i	25p 50i	50Mbps
			1280X720	60p/30p/24p	50p/25p	
RAW	---	---	Output Format up to 4096X2160	60p/30p/24p	50p/25p	---

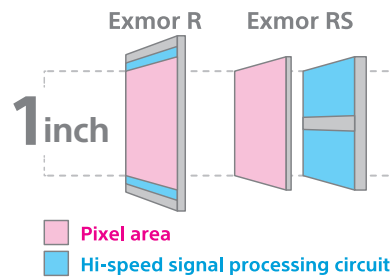
PXW-Z150

1.0 type Exmor RS™ CMOS sensor 4K compact XDCAM camcorder



PXW-Z150

The world's first 1.0 type stacked CMOS image sensor, enables beautiful 5x slow motion image capture up to 120fps in Full HD and high resolution 4K recording with full pixel readout without binning.



Compact light body with only 1.9kg & 3 independent manual lens rings to ensure intuitive control of zoom, focus and iris.

3G-SDI output & built in wireless function to ensure extensive connectivity. FTP Transfer, Sony QOS streaming (after firmware update) will be supported giving you better pictures even with limitation of today's real-world networks.

Wireless

Networked for high mobility

Wide choice of connections including 3G-SDI

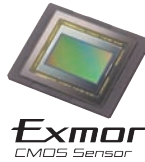


Format	Wrapper	Quality	Resolution	60Hz	50Hz	Max bitrate	Audio
				Frame Rate			
XAVC Long	MXF	4:2:0 / 8bit	3840x2160	30p/24p	25p	100/60Mbps	Linear PCM 2ch, 24bit, 48kHz
		4:2:2 / 10bit	1920x1080	60p/30p/24p 60i	50p/25p 50i	50/35Mbps	
		4:2:2 / 10bit	1920X1080	60i	50i	25Mbps	
		4:2:0 / 8bit	1280x720	60p	50p	50Mbps	AAC-LC 2ch, 16bit, 48kHz
MPEG HD422		4:2:2 / 10bit	1920X1080	30p/24p 60i	25p 50i	50Mbps	Linear PCM 2ch, 24bit, 48kHz
		4:2:0 / 8bit	1280x720	60p	50p	50Mbps	AAC-LC 2ch, 16bit, 48kHz
MPEG HD420		4:2:0 / 8bit	1920x1080	30p/24p 60i	25p 50i	35Mbps	Linear PCM 2ch, 16bit, 48kHz
			1440X1080	60i	50i	35Mbps	
	1280X720		60p	50p	35Mbps	AAC-LC 2ch, 16bit, 48kHz	
AVCHD	MTS	4:2:0 / 8bit	1920x1080	60p	50p	28Mbps	Linear PCM 2ch, 16bit, 48kHz
			1920x1080	30p/24p 60i	25p 50i	24/17Mbps	
			1280X720	60p	50p	24/17/9Mbps	Dolby Digital 2ch, 16bit, 48kHz

PXW-FS5/FS5K

Compact Full-HD super slow motion 4K camcorder

4K Super 35 Exmor® sensor offers exceptional image readout speeds required for 4K motion-picture shooting and Super Slow Motion



High Frame Rate (HFR) cache recording at Full-HD 10bit 4:2:2 image quality and a frame rate of up to 240 fps

240

fps

Amazingly light 0.8 kg body with Optimized design for Ultimate Handheld Shooting. The radical new design provide unsurpassed on-the-go shooting in the most demanding conditions

Options for FS Raw output or MPEG 2 HD recording (by End 2016)



**FS RAW
INTERFACE**
SONY



MPEG HD Upgrade
SONY



PXW-FS5



Format	Wrapper	Quality	Resolution	60Hz	50Hz	Max bitrate	Audio
				Frame Rate			
XAVC Long	MXF	4:2:0 / 8bit	3840x2160	30p/24p	25p	100/60Mbps	LPCM 2ch
		4:2:2 / 10bit	1920x1080	60p/30p/24p	50p/25p	50/35Mbps	
				60i	50i	50/35/25Mbps	
				1280x720	60p	50p	
MPEG2▲	---	---	1920x1080	60p/30p/24p	50i/25p	50Mbps	---
			1280x720	60p	50p		
			1920x1080	60p/30p/24p	50i/25p	35Mbps	
			1440x1080	60p/30p/24p	50i/25p		
			1280x720	60p	50p		
AVCHD	MTS	4:2:0 / 8bit	1920x1080	60p	50p	28 (PS)Mbps	LPCM 2ch / AC3 2ch
			1920x1080	60i/24p/30p	50i/25p	24 (FX)Mbps	
			1280x720	60p	50p		
			1920x1080	60i/30p/24p	50i/25p	17 (FX)Mbps	
			1280x720	60p	50p		
			1280x720	60p	50p	9 (HQ)Mbps	
RAW*	---	---	3840x2160	60p	50p	---	---

* With optional CBKZ-FS5RIF

▲ To be released in V3.0 firmware with optional CBKZ-SLMP

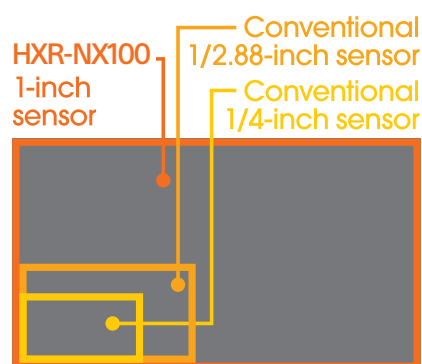
HXR-NX100

1.0 type Exmor R® CMOS sensor camcorder

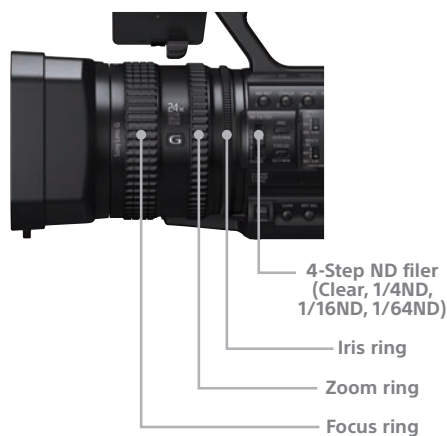


HXR-NX100

The 1.0 type Exmor R® back-illuminated CMOS sensor delivers fantastic high resolution, low light performance and depth of field for today's diverse shooting requirements



Three independent manual lens rights ensure intuitive control of zoom, focus and iris



Maximum 48x zoom with Clear Image Zoom and Digital Extender

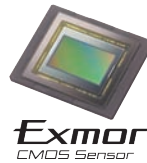
Format	Wrapper	Quality	Resolution	60Hz	50Hz	Max bitrate	Audio
				Frame Rate			
XAVC S	MP4	4:2:0 / 8bit	1920x1080	60p/30p/24p	50p/25p	50Mbps	LPCM 2ch 24bit, 48kHz
AVCHD	MTS	4:2:0 / 8bit	1920x1080	60p	50p	28(PS)Mbps	LPCM 2ch 16bit, 48kHz
			1920x1080	60i/30p/24p	50i/25p	24 (FX)Mbps	
			1280x720	60p	50p	17 (FH)Mbps	
			1920x1080	60i/30p/24p	50i/25p		
			1280x720	60p	50p	9 (HQ)Mbps	
			1440x1080	60i	50i		
			1280x720	60p	50p	5 (LP)Mbps	
			1440x1080	60i	50i		
DV	AVI	4:1:1 / 8bit	720x480	60i	---	25Mbps	
		4:2:0 / 8bit	720x576	---	50i	25Mbps	

PXW-FS7

4K Super 35 Exmor® CMOS sensor camcorder



The Super 35 Exmor® CMOS sensor is equipped with approximately 11.6 million total pixels and 8.8 million effective pixels



PXW-FS7

Internal recording in 4K resolution at 60fps as well as a wide range of frame rates (59.94p, 50p, 29.97p, 25p and 23.98p)

Extend flexibility with XDCA-FS7 extension unit for Apple ProRes 422 encoding, Multi camera setting and 4K/2K RAW Recording with HXR-IFR5 and AXS-R5



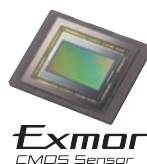
Format	Wrapper	Quality	Resolution	60Hz	50Hz	Max bitrate
				Frame Rate		
XAVC Intra	MXF	4:2:2 10bit	4096X2160	60p/30p/24p	50p/25p	600/300/240Mbps (60Hz) 500/250Mbps (50Hz)
			3840X2160	60p	50p	600/500Mbps
			3840X2160	30p/24p	25p	300/240/250Mbps
			1920X1080	60p/30p/24p	50p/25p	222/111/112Mbps (60Hz) 185/112Mbps (50Hz)
			1920X1080	60i	50i	111/112Mbps
XAVC Long		4:2:0 8bit	3840X2160	60p	50p	150Mbps
			3840X2160	30p/24p	25p	100Mbps
		4:2:2 10bit	1920X1080	60p/30p/24p 60i	50p/25p 50i	50Mbps
MPEG HD422		4:2:2 8bit	1920X1080	30p/24p 60i	25p 50i	50Mbps
			1280X720	60p/30p/24p	50p/25p	
RAW	---	---	Output Format up to 4096X2160	60p/30p/24p	50p/25p	---

NEX-FS700R/RH

Full-HD super slow motion NXCAM camcorder



The 4K Super 35 Exmor® CMOS sensor and high-speed readout chip is optimized for motion picture shooting, producing exceptional image fidelity with high sensitivity, low noise and minimal aliasing



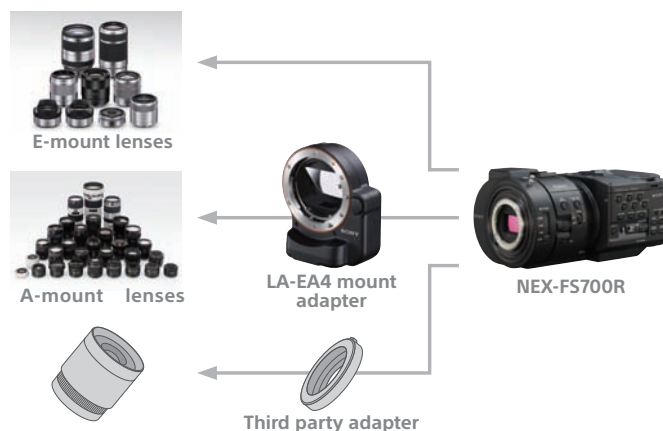
NEX-FS700R



NEX-FS700RH

10x Super Slow Motion recording in Full-HD at 240fps

E-Mount Interchangeable Lens System, compatible with Sony Alpha, Canon EF and a vast array of 35mm lenses via third-party adapters



Format	Resolution	60Hz	50Hz	Max bitrate
		Frame Rate		
AVCHD	1920X1080	60p	50p	28Mbps
	1920X1080	60i/30p/24p	50i/25p	24Mbps
	1280X720	60p	50p	24Mbps
	1920X1080	60i/30p/24p	50i/25p	17Mbps
	1280X720	60p	50p	17Mbps
	1440X1080	60i	50i	9Mbps
	1440X1080	60i	50i	5Mbps

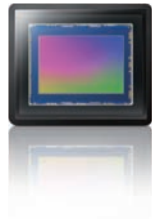
NEX-EA50H/EA50K

Large format sensor NXCAM camcorder



The large format Exmor® APS HD CMOS sensor provides high quality, creative moving images and shallow depth of field control

Exmor®
CMOS Sensor

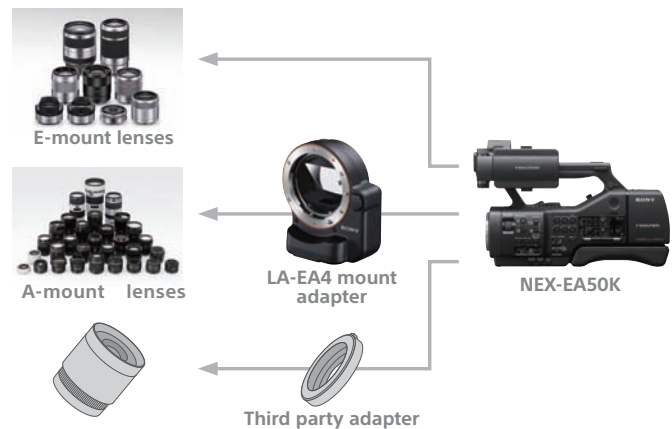


NEX-EA50H



NEX-EA50K

E-mount interchangeable lens system enables auto focus, auto exposure and stabilization during shooting. The camera can attach virtually any 35mm SLR, DSLR, and Cine lenses via third-party adapters



The unique design and extended shoulder pad enhanced stability for long-duration shooting. Alternatively the camcorder can be used in various handheld styles, allowing you to capture a huge variety of shots

Format	Resolution	60Hz	50Hz	Max bitrate
		Frame Rate		
AVCHD	1920X1080	60p	50p	28Mbps
	1920X1080	60i/30p/24p	50i/25p	24Mbps
	1280X720	60p	50p	24Mbps
	1920X1080	60i/30p/24p	50i/25p	17Mbps
	1280X720	60p	50p	17Mbps
	1440X1080	60i	50i	9Mbps
	1440X1080	60i	50i	5Mbps

PXW-Z100

**1/2.33 inch Exmor R®
CMOS sensor 4K compact
XDCAM camcorder**



PXW-Z100

The Exmor R® CMOS sensor camcorder is capable of recording 4K (4096 x 2160) at 60 fps or 50fps, while weighing under 3 kg even with a 4K-compatible high-performance G lens™ mounted

The camcorder support XAVC format for recording 4K/HD 60p with 4:2:2 10-bit at 600Mbps. Also, it support XAVC LongGOP (QFHD 4:2:0 8-bit / Full HD 4:2:2 10-bit) as well as AVCHD (Full-HD) format.

HDMI interface enable display of 4K 60p/50p footage and 3G HD-SDI interface supports output through a BNC cable with up to HD 60fps



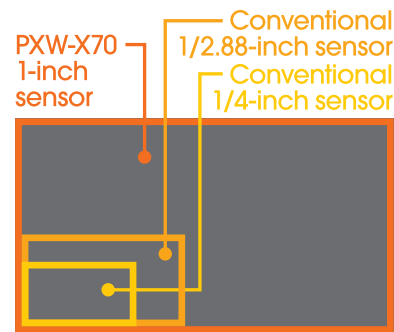
Format	Wrapper	Quality	Resolution	60Hz	50Hz	Max bitrate
				Frame Rate		
XAVC Intra	MXF	4:2:2 10bit	4096X2160	60p/30p/24p	50p/25p	600/300/200Mbps (60Hz) 500/240Mbps (50Hz)
			3840X2160	60p/30p/24p	50p/25p	600/300/200Mbps (60Hz) 500/240Mbps (50Hz)
			1920X1080	60p/30p/24p	50p/25p	600/300/200Mbps (60Hz) 500/240Mbps (50Hz)
XAVC Long		4:2:0 8bit	3840X2160	60p	50p	150Mbps
				30p/24p	25p	100Mbps
		4:2:2 10bit	1920X1080	60p/60i/30p/24p	50p/50i/25p	50Mbps
				60p/60i/30p/24p	50p/50i/25p	35Mbps
	60i			50i	25Mbps	
AVCHD	M2ts	4:2:0 8bit	1920X1080	60p	50p	28Mbps
				60p/30p/24p	50p/25p	24Mbps

PXW-X70

1.0 type Exmor R[®] CMOS sensor compact XDCAM camcorder

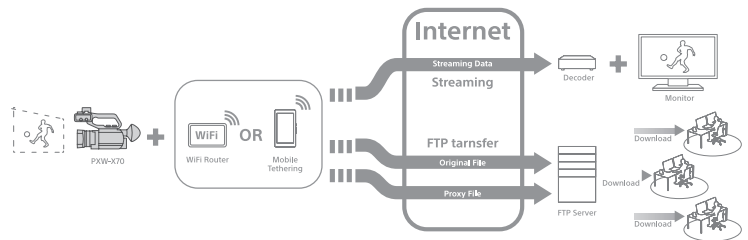


With the 4K-ready 1.0 type Exmor R[®] CMOS sensor, the camcorder delivers high resolution, high sensitivity, low noise, and wide dynamic range



A 3G-SDI output terminal allow transfer of image signals at up to HD1080 60p through a single BNC cable

Network features of streaming, FTP transfer (XAVC 4K/HD and AVCHD formats) and Wired LAN connection allows content files to be sent over Internet for viewing or remote storage on an FTP server



Options for QFHD & MPEG 2 HD recording



CBKZ-X70FX



CBKZ-SLMP

Format	Resolution	60Hz	50Hz	Max bitrate
		Frame Rate		
XAVC QFHD*	3840X2160	30p,24p	25p	60Mbps
XAVC Long	1920X1080	60p/60i/30p/24p	50p/50i/25p	50Mbps
	1920X1080	60p/60i/30p/24p	50p/50i/25p	35Mbps
	1920X1080	60i	50i	25Mbps
MPEG2▲	1920X1080	60i/30p/24p	50i/25p	50Mbps
	1280X720	60p	50p	
	1920X1080	60i/30p/24p	50i/25p	35Mbps
	1440X1080	60i/30p/24p	50i/25p	
	1280X720	60p	50p	
AVCHD	1920X1080	60p	50p	28Mbps
	1920X1080	60i/30p/24p	50i/25p	24/17Mbps
	1280X720	60p	50p	24/17/9Mbps
DV	720X576	---	50i	25Mbps
	720X480	60i	---	25Mbps

* Optional CBKZ-X70FX

▲ Optional CBKZ-SLMP

PXW-X200

Three 1/2-inch Exmor®
CMOS sensor Full-HD
XDCAM camcorder



PXW-X200

The lens has three independent control rings with end-stop, allowing manual control of focus, zoom, and iris for better and faster adjustment.



Iris ring
Zoom ring
Focus ring

Support shooting at XAVC HD, MPEG HD 422 50 Mbps, MPEG HD 420 35 Mbps, DVCAM at 25 Mbps in MXF file format and MPEG IMX at 50 Mbps in UDF mode.

Capable of wireless operation including remote control, file transfer, monitoring via smartphones and tablet devices, and streaming.



Format	Resolution	60Hz	50Hz	Max bitrate
		Frame Rate		
XAVC Intra	1920X1080	60i/30p/24p	50i/25p	112Mbps
XAVC Long	1280X720	60p	50p	112Mbps
	1920X1080	60p/60i/30p/24p	50p/50i/25p	50/35Mbps
	1280X720	60p	50p	50Mbps
	1920X1080	60i	50i	25Mbps
MPEG 2	1920X1080	60i/30p/24p	50i/25p	50Mbps
	1280X720	60p/30p/24p	50p/25p	50Mbps
	1920X1080 1440X1080	60i/30p/24p	50i/25p	35Mbps
	1280X720	60p/24p	50p	35Mbps
	1440X1080	60i/24p	50i	SP
	720X576*	---	50i	50Mbps
	720X480*	60i	---	50Mbps
DV	720X576	---	50i	25Mbps
	720X480	60i	---	25Mbps

* Only in UDF mode

PXW-X180/PXW-X160

Three 1/3-inch Exmor® CMOS sensor Full-HD XDCAM camcorder



PXW-X180



PXW-X160

G Series fixed 25x professional HD zoom lens provides 26mm wide angle zoom with three independent rings with end-stop and large focal length

Support shooting at Full HD XAVC Intra and XAVC Long GOP, as well as MPEG HD 422 50 Mbps, MPEG HD 420 35 Mbps, AVCHD and DV format

Network features of streaming and FTP transfer (XAVC 4K/HD and AVCHD formats) allows content files to be sent over Internet for viewing or remote storage on an FTP server

(*network features available for PXW-X180 only)



Innovative Sony image sensor, image processor and lens achieve outstanding image quality

Format	Resolution	60Hz	50Hz	Max bitrate
		Frame Rate		
XAVC Intra	1920X1080	60i/30p/24p	50i/25p	112Mbps/89Mbps (24p)
	1280X720	60p	50p	112Mbps
XAVC Long	1920X1080	60p/60i/30p/24p	50p/50i/25p	50/35Mbps
	1280X720	60p	50p	50Mbps
	1920X1080	60i	50i	25Mbps
MPEG 2	1920X1080	60i/30p/24p	50i/25p	50Mbps
	1280X720	60p/30p/24p	50p/25p	50Mbps
	1920X1080	60i/30p/24p	50i/25p	35Mbps
	1440X1080	60i	50i	35Mbps
	1280X720	60p	50p	35Mbps
AVCHD	1920X1080	60p/60i/30p/24p	50p/50i/25p	28Mbps (60p/50p) 24Mbps (60i/30p/24p/50i/25p)
	1280X720	60p	50p	24Mbps
DV	720X576	---	50i	25Mbps
	720X480	60i	---	25Mbps

HXR-MC2500

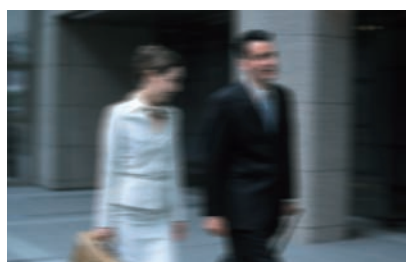
1/4-inch Exmor R®
CMOS sensor HD/SD
AVCHD camcorder



HXR-MC2500

Its highly-sensitive sensor utilize incidental light more efficiently and achieve rich image quality even during low-light shooting situations

Optical SteadyShot with active mode ensures smooth movement while recording footage even when shooting while walking



SteadyShot off



SteadyShot w/Active Mode on

A 32GB internal flash memory enables longer duration recording of more than 150 minutes which is ideal for long event shooting

* On Screen Image Simulated

Format	Resolution	60Hz	50Hz	Max bitrate
		Frame Rate		
AVCHD	1920X1080	60p	50p	28Mbps
	1920X1080	60i/30p/24p	50i/25p	24Mbps
	1280X720	60p	50p	24Mbps
	1920X1080	60i/30p/24p	50i/25p	17Mbps
	1280X720	60p	50p	17Mbps
	1280X720	60p	50p	9Mbps
DV	720X576	---	50i	25Mbps
	720X480	60i	---	25Mbps

MCX-500

Affordable Multi Camera Live Producer



NEW



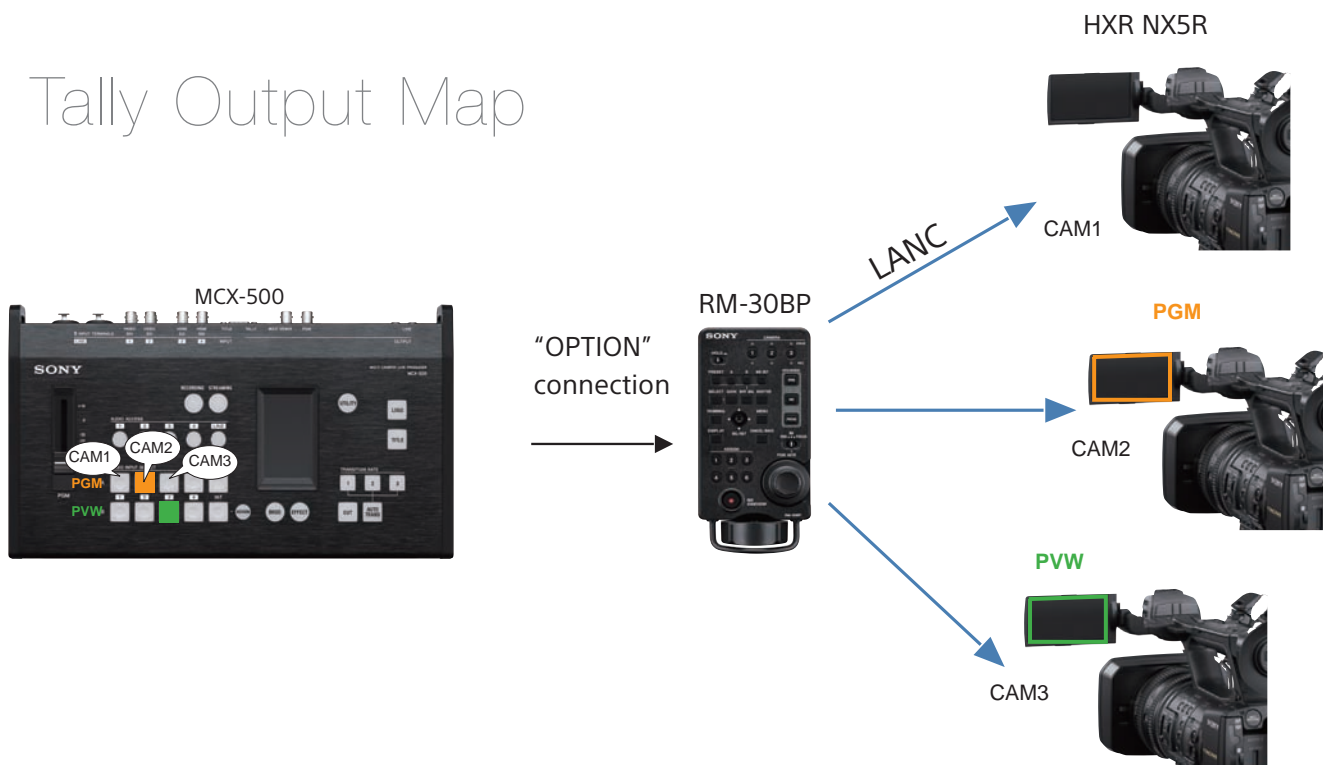
MCX-500

Multiple Input terminal with 9x Input (4x3G-SDI, 2x HDMI, CVBS/RGB for DSK) (BACK PANEL)

Multi function with simple operability by equipping with touch screen & hard button for performing streaming, PGM recording or Audio mixing

Provide Low-cost multi camera operation by working with RM-30BP for providing tally output support to Camcorders

Tally Output Map



RM-30BP

Compact Multi Function Remote (LANC) Controller

This lightweight remote can be handheld, placed on a table or attached to a tripod arm for operation



NEW



RM-30BP

RM-30BP can control most camera functions including:

REMOTE out $\Phi 2.5 \times 3$



REMOTE in $\Phi 2.5 \times 1$

Option $\Phi 3.5$

Multiple system operation:

- 3 remote output for multi camera operation
- 1 remote for daisy chain
- 1 connection with MCX-500 (Rec SS and Tally control from MCX-500)

Compact and lightweight Operation



- 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)

Valiant system operation

Multi Camera (Max 3 Cameras)



Daisy Chain



PMW-PZ1

4K SxS memory player



USB interface for connection to an external USB storage device, enables users to copy data in SxS media with copy log directly to external storage without the need for other devices

Direct playback from SxS memory cards or from an external USB storage device

Equipped with a host of versatile input and output interfaces, including a HDMI port and four 3G/HD-SDI outputs
(2 sample interleave, Square division)

Resolution	Format				59.94P	50P	29.97P	25P	24P	23.98P	59.94i	50i
4096x2160	4K	XAVC-Intra	Class480		---	---	✓	✓	*1	✓	---	---
			Class300		✓	✓	✓	✓	*1	✓	---	---
3840x2160	QFHD	XAVC-Intra	Class480	.MXF	---	---	✓	✓	---	✓	---	---
			Class300		✓	✓	✓	✓	---	✓	---	---
		XAVC-Long		.MP4	✓	✓	✓	✓	---	✓	---	---
		XAVC-S-Long			✓	✓	✓	✓	---	✓	---	---
2048x1080	2K	XAVC-Intra	Class100		TBC							
1920x1080	HD	XAVC-Intra	Class100		.MXF	✓	✓	✓	✓	---	✓	✓
		XAVC-Long			✓	✓	✓	✓	---	✓	✓	✓
		XAVC-S-Long		.MP4	✓	✓	✓	✓	---	✓	---	---
		XDCAM MPEG-422		.MXF	---	---	✓	✓	---	✓	✓	✓
		XDCAM MPEG-420			---	---	✓	✓	---	✓	✓	✓
		XDCAM EX MPEG-420		.MP4	---	---	✓	✓	---	✓	✓	✓
1280x720		XAVC-Intra	Class100	.MXF	✓	✓	---	---	---	---	---	---
		XAVC-Long			✓	✓	---	---	---	---	---	---
		XDCAM MPEG-422			✓	✓	---	---	---	---	---	---
		XDCAM MPEG-420			✓	✓	---	---	---	---	---	---
		XDCAM EX MPEG-420		.MP4	✓	✓	---	---	---	---	---	---

*1 Under Development

α7S II

E-mount Camera with Full-Frame Sensor

Extra sensitivity, wide dynamic range, accurate focusing, and unshakeable stability for shooting with solid assurance

Support 14-bit uncompressed RAW format for unbeatable quality and range of tonal nuance

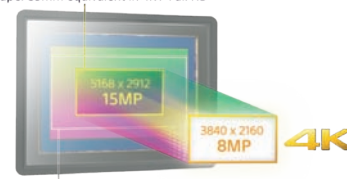
Allows 4K recording at up to 100 Mbps bit rate with XAVC S format to capture detailed movies with minimal compression noise. Supports professional video features include S-Gamut3.Cine/S-Log3 profile. Files are saved in widely compatible MPEG-4 AVC/H.264 format



α7S II

Exmor R
CMOS Sensor

Super 35mm equivalent in 4K / Full HD



35mm full frame 16:9 in 4K / Full HD

4K

α7R II

E-mount Camera with back-illuminated full-frame image sensor

World's first* 35 mm back-illuminated full-frame image sensor provides higher resolution, sensitivity, and readout speed

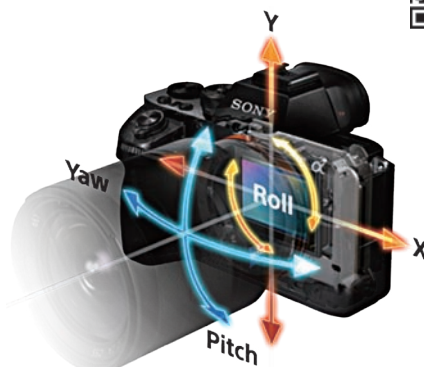
(*among digital cameras with a full-frame image sensor. As of June 2015 press release, based on Sony research)

Fast Hybrid AF system's dense extra-wide focal plane phase-detection AF coverage keeps a subject in sharp focus entirely throughout the frame

5-axis image stabilization reduces blur which otherwise tends to affect handheld shots



α7R II





Accessories for Professional Camcorder



Wireless Microphone UWP-D Series UWP-D11/D12/D16



Digital Audio Processing improves transient response performance between transmitter and receiver providing impressive natural sound quality compared to conventional analogue wireless systems



UWP-D11

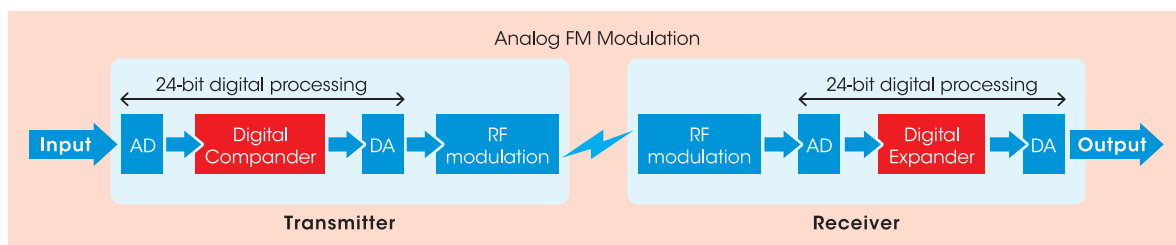


UWP-D12



UWP-D16

High-quality sound and reliable transmission



Using SMAD-P3 MI shoe adapter, the portable receiver (URX-P03) could work with selected camcorders without audio cable and get power



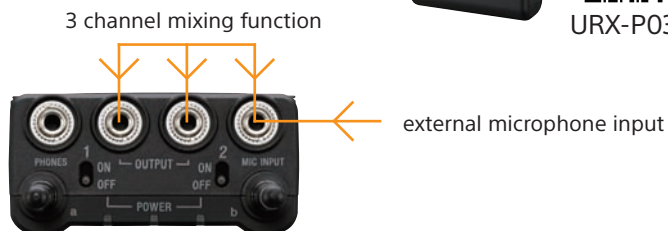
URX-P03D dual channel portable wireless receiver

Communicating with two
UWP Series or WL-800
transmitters at the same time



URX-P03D

Equipped with external
microphone input & 3
channel mixing function



Recording Media

SXS Memory Card – Ultra High Speed Memory Card

SBP-64/128/256 (SxS Pro+)

SBS-32G1/64G1/128G1 (SxS-1)

- Up to 440MB/s* Read speed, Up to 350MB/s* write speed (SxS Pro+)
- Up to 440MB/s* Read Speed (SXS-1)
- Guaranteed Minimum Writing Speed 160MB/s* (SXS PRO+)
- PCI-e Gen2 , Express Card /34



SXS

XQD Memory Card – Extreme High Speed Memory Card

XQD-G32/G64/G128

- Up to 440MB/s* Read Speed, Up to 400MB/s* Write Speed (XQD G)
- Up to 440MB/s* Read Speed, Up to 150MB/s* Write Speed (XQD M64/M128)
- PCI-e Gen2, USB3.0
- The USB adaptor will be sold separately for G series



XQD

SD Card for Professional - High Durability and File Recovery Support Memory Card

SF-32P (SDHC) / 64P (SDXC) / G1P** (SDXC)

- Up to 95MB/s* Read Speed, Up to 90MB/s* Write Speed
- 10x tougher*** thanks to unique technique of assembly process
- File rescue support**** for AVCHD and XAVC-S



**SD
HC**

**SD
XC**

* : Based on Sony testing

** : also known as 128GB

*** : At bending test

**** : http://www.sony.net/Products/memorycard/en_us/datarescue/

Memory Card Codec Compatibility Chart








	XAVC Intra 422 4096 x 2160	XAVC Intra 422 3840 x 2160	XAVC Long 420 3840 x 2160	XAVC Intra 422 1920 x 1080	XAVC Long 422 1920 x 1080	MPEG HD 422 1920 x 1080	XAVC S 3840 x 2160 1920 x 1080	AVCHD 1920 x 1080 1280 x 720
SXS PRO+	○	○	○	○	○	○	-	-
SXS-1	-	-	○*1	○*2	○	○	-	-
XQD-G	-	-	○	○	○	○	-	-
XQD-M	-	-	○	○*2	○	○	-	-
SF-G1P (SDXC)	-	-	○*1	-	○	○*3	○	○
SF-64P (SDXC)	-	-	○*1	-	○	○*3	○	○
SF-32P (SDHC)	-	-	-	-	-	-	-	○

*1 Not compatible with 150Mbps

*2 Not compatible with 222Mbps








*3 Not Compatible with Slow & Quick Mode

Professional Camcorder Line-up Chart

















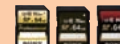




















































Model	Affordable Shoulder Camcorder	Compact Camcorder		3-Chips Camcorder			NEX-EA50H
	HXR-MC2500	HXR-NX100	PXW-X70	HXR-NX5R ^{New!!}	PXW-X180/PXW-X160	PXW-X200	
PAL/NTSC	PAL or NTSC	PAL or NTSC	Switchable	PAL or NTSC	Switchable		
Type	PXCAM	PXCAM	XDCAM	PXCAM	XDCAM		
							
Highlighted Features	<ul style="list-style-type: none"> • Higher sensitivity • Built-in LED Light • Longer Rec time with 14 hours (NP-F970) • Simultaneous & Relay Rec • OLED Viewfinder • Hi-Res LCD 921K • Wi-Fi • TC/UB 	<ul style="list-style-type: none"> • Good Sensitivity & Shallow Depth of Field with 1.0 inch Sensor • XAVC S, AVCHD • Internal ND Filter 	<ul style="list-style-type: none"> • Good Sensitivity & Shallow Depth of Field with 1.0 inch Sensor • XAVC Long GOP • 3G-SDI Output • Internal ND Filter • Wi-Fi Optional upgrade: <ul style="list-style-type: none"> • XAVC [4K QFHD] Long GOP • MPEG HD 422/420 	<ul style="list-style-type: none"> • Powerful 40x Clear Image Zoom • Internal ND Filter • Built-in adjustable LED light • Wi-Fi • 3G-SDI Output • OLED EVF & MI Shoe 	<ul style="list-style-type: none"> • Multi recording format & recording media • Powerful 25x Optical Zoom • 26mm wide-angle • Variable ND Filter • Wi-Fi (for PXW-X180) 	<ul style="list-style-type: none"> • High Sensitivity of 1/2 inch sensor • Multi recording format • Wi-Fi 	<ul style="list-style-type: none"> • APS-C size S • Interchangeable Lens
Imager	1-chip 1/4" EXMOR R CMOS	1-chip 1.0" EXMOR R CMOS	1-chip 1.0" EXMOR R CMOS	3-chips 1/2.8" EXMOR CMOS	3-chips 1/2.8" EXMOR CMOS	3-chips 1/2" EXMOR CMOS	1-chip APS-C EXMOR
Focal Length	26.8-321.6 mm	29-348 mm	29-348 mm	28.8-576mm	26-650 mm	29,3-499 mm	SELPI8200 (F) SELPI8200 (L) 29-322 mm
Zoom	<ul style="list-style-type: none"> • Optical Zoom 12x • 2x Clear Image Zoom (24x) • Digital Zoom 200x 	<ul style="list-style-type: none"> • Optical Zoom 12x • 2x Clear Image Zoom (24x) • 2x Digital Extender (48x) 	<ul style="list-style-type: none"> • Optical Zoom 12x • 2x Clear Image Zoom (24x) • 2x Digital Extender (48x) 	<ul style="list-style-type: none"> • Optical Zoom 20x • 2x Clear Image Zoom (40x) 	Optical Zoom 25x	Optical Zoom 17x	<ul style="list-style-type: none"> • Optical Zoom • 2x Digital Z
ND Filter	-	Clear, 3 stops	Clear, 3 stops	Clear, 3 stops	<ul style="list-style-type: none"> • Clear, 3 stops • Variable ND Filter (1/4-1/128) 	Clear, 2 stops	-
Recording Slot	<ul style="list-style-type: none"> • Internal 32GB • MS/SD Slot x1 	<ul style="list-style-type: none"> • MS/SD slot x1 • SD slot x1 	<ul style="list-style-type: none"> • MS/SD slot x1 • SD slot x1 	<ul style="list-style-type: none"> • MS/SD slot x1 • SD slot x1 	<ul style="list-style-type: none"> • SxS Slot x2 • SD Slot x1 for utility • SD Slot x1 for proxy (PXW-X180 only) 	<ul style="list-style-type: none"> • SxS Slot x2 • SD Slot (for proxy) x1 	<ul style="list-style-type: none"> • MS/SD Slot • Flash Memory Slot x1
Recording Media	MS/SD Card	MS/SD Card	MS/SD Card	MS/SD Card	<ul style="list-style-type: none"> • SxS Card (XQD/MS/SD card by adapter) • SD Card for Proxy (PXW-X180 only) 	<ul style="list-style-type: none"> • SxS Card (XQD/MS/SD card by adapter) • SD Card (for Proxy) 	<ul style="list-style-type: none"> • MS/SD Card • Flash Memory (HXR-FMU1)
Recording Format	<ul style="list-style-type: none"> • AVCHD 2.0 • DV 	<ul style="list-style-type: none"> • XAVC S (HD) • AVCHD 2.0 • DV 	<ul style="list-style-type: none"> • XAVC Long GOP • AVCHD 2.0 • DV • MP4 (Proxy Rec) Optional Upgrade: <ul style="list-style-type: none"> • XAVC [4K QFHD] Long GOP • MPEG HD 422/420 	<ul style="list-style-type: none"> • XAVC S (HD) • AVCHD 2.0 • DV 	<ul style="list-style-type: none"> • XAVC Intra • XAVC Long GOP • MPEG HD422/420 • AVCHD 2.0 • DV • MP4 (Proxy Rec) (PXW-X180 only) 	<ul style="list-style-type: none"> • XAVC Intra • XAVC Long GOP • MPEG HD422/420 • IMX • DV • MP4 (Proxy Rec) 	<ul style="list-style-type: none"> • AVCHD 2.0 • MPEG2 S • DV
SDI Output	-	-	3G-SDI x1	3G-SDI x1	3G-SDI x1	3G-SDI x1	-
HDMI Output	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A
Component Output	-	-	-	-	-	-	RCA Pin x
Composite (A/V) Output	BNC x1	BNC x1	Integrated into multi/micro USB Jack x1	BNC x1	BNC x1	BNC x1	RCA Pin x
Supplied Battery/Charger/ Adaptor	<ul style="list-style-type: none"> • Charger & Adaptor: AC-L100 • Battery: NP-F570 	<ul style="list-style-type: none"> • Charger & Adaptor: BC-L1 & AC-L100C • Battery: NP-F770 	<ul style="list-style-type: none"> • Charger & Adaptor: AC-L200 • Battery: NP-FV70 	<ul style="list-style-type: none"> • Charger & Adaptor: BC-L1 & AC-L100C • Battery: NP-F770 	<ul style="list-style-type: none"> • Charger & Adaptor: BC-U1 • Battery: BP-U30 	<ul style="list-style-type: none"> • Charger & Adaptor: BC-U1 • Battery: BP-U30 	<ul style="list-style-type: none"> • Charger & Adaptor: AC-VL1 • Battery: NP-

* Additional external RAW Recorder

** Optional extension unit

LFS Camcorder (Interchangeable Lens)					4K Compact Camcorder	4K Hand-held Camcorder
PZ / K	NEX-FS700R/RH	PXW-FS5 / FS5K	PXW-FS7	PXW-FS7M2 / PXW-FS7M2K ^{New!!}	PXW-Z150	PXW-Z100
	Switchable			Switchable	Switchable	Switchable
EXMOR CMOS	EXMOR CMOS	EXMOR CMOS	EXMOR CMOS	EXMOR CMOS	EXMOR CMOS	EXMOR CMOS
						
• Super 35mm Sensor • Interchangeable Lens • Super slow-motion up to 960 fps (40x slow-motion) • 4K/2K raw output capability*	• 4K Super 35mm Sensor • Internal recording 4K @30 fps • Super slow-motion Full HD up to 240 fps • Support for S-Gamut3.Cine / S-Log3 / S-Gamut3 • Wi-Fi <i>Optional Upgrade:</i> • 4K (QFHD) FS Raw output capability* • MPEG HD 422/420	• 4K Super 35mm Sensor • Internal recording 4K @60 fps • Super slow-motion continuous shooting Full HD up to 180 fps • Support for S-Gamut3.Cine / S-Log3 / S-Gamut3 • Extended Unit (XDCA-FS7) • 4K/2K raw output capability* • Wi-Fi	• 4K Super 35mm Sensor • Internal recording 4K @60 fps • Super slow-motion continuous shooting Full HD up to 180 fps • Support for S-Gamut3.Cine / S-Log3 / S-Gamut3 • Extended Unit (XDCA-FS7) • 4K/2K raw output capability* • Wi-Fi	• 4K Super 35mm Sensor • Internal recording 4K @60 fps • Super slow-motion continuous shooting Full HD up to 180 fps • Support for S-Gamut3.Cine / S-Log3 / S-Gamut3 • Extended Unit (XDCA-FS7) • 4K/2K raw output capability* • Wi-Fi	• Good Sensitivity & Shallow Depth of Field with 1.0 inch Exmor RS Sensor • 3840X2160 QFHD recording & HFR up to 120fps • 3 manual lens ring with internal ND filter • Wi-Fi	• 4K Hand-held form factor • Able to record 4K (4096x2160)@60p • 4K@60p output via single HDMI cable • Wi-Fi
1-chip	1-chip	1-chip	1-chip	1-chip	1-chip	1-chip
Super 35mm EXMOR CMOS	Super 35mm EXMOR CMOS	4K Super 35mm EXMOR CMOS	4K Super 35mm EXMOR CMOS	4K Super 35mm EXMOR CMOS	1.0" EXMOR RS CMOS	1/2.3" EXMOR R CMOS
NEX-FS700RH: SELP18200 (PZ) 30.6-340 mm	PXW-FS5K : SELP18105G (PZ) 18-105 mm	-	-	PXW-FS7M2K : SELP18110G, F4 G OSS 18-110 mm	29-348 mm	30-600 mm
-	-	-	-	6X	• Optical Zoom 12x • Clear image Zoom 18x/24x (4K/HD) • Digital Zoom 48x (HD)	Optical Zoom 20x
Clear, 3 stops	Clear, 3 stops Variable ND Filter (1/4-1/128)	Clear, 3 stops	Clear, 3 stops	Clear, 3 stops Variable ND Filter (1/4-1/128)	Clear, 3 stops	Clear, 3 stops
• MS/SD Slot x1 • Flash Memory Unit Slot x1	• MS/SD Slot x1 • SD Slot x1	• XQD Slot x2 • SD Slot x1 (for utility)	• XQD Slot x2 • SD Slot x1 (for utility)	• MS/SD Slot x1 • SD Slot x1	• XQD Slot x2 • MS/SD Slot x1 (for AVCHD)	• XQD Slot x2 • MS/SD Slot x1 (for AVCHD)
• MS/SD Card • Flash Memory Unit (HXR-FMU128)	MS/SD Card	XQD Card	XQD Card	• XQD Card	• MS/SD Card	• XQD Card • MS/SD Card (for AVCHD)
• AVCHD 2.0 • MPEG2 SD	• XAVC [4K QFHD/HD] Long GOP • AVCHD 2.0 • MPEG HD 422/420 <i>Optional Upgrade:</i> • MPEG HD 422/420	• XAVC 4K (4096 x 2160) • XAVC [4K QFHD/HD] Intra • XAVC [4K QFHD/HD] Long GOP • MPEG HD422 • Apple ProRes 422**	• XAVC 4K (4096 x 2160) • XAVC [4K QFHD/HD] Intra • XAVC [4K QFHD/HD] Long GOP • MPEG HD422 • Apple ProRes 422**	• XAVC Long GOP • MPEG HD 422/420 • DV • AVCHD 2.0 • MP4 (Proxy Rec)	• XAVC [4K (4096x2160)/HD] Intra • XAVC [4K QFHD/HD] Long GOP • AVCHD 2.0	• XAVC [4K (4096x2160)/HD] Intra • XAVC [4K QFHD/HD] Long GOP • AVCHD 2.0
3G-SDI x1	3G-SDI x1	3G-SDI x2	3G-SDI x2	3G-SDI x1	3G-SDI x1	HD/SD-SDI x1
HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1	HDMI Type A x1
Mini D Terminal x1	-	-	-	-	-	-
RCA Pin x1	-	-	-	-	RCA Pin x1	RCA Pin x1
• Charger & Adaptor: AC-VL1 • Battery: NP-F770	• Charger & Adaptor: BC-U1 & AC-UES1230 • Battery: BP-U30	• Charger & Adaptor: BC-U1 & MPA-AC1 • Battery: BP-U30	• Charger & Adaptor: BC-U1 & AC-NB12A • Battery: BP-U30	• Charger & Adaptor: BC-L1 & AC-L100C • Battery: NP-F770	• Charger & Adaptor: AC-VL1 & AC-NB12A • Battery: NP-F970	• Charger & Adaptor: AC-VL1 & AC-NB12A • Battery: NP-F970

Professional Camcorder Accessories

Model	Battery/Kit	Charger	Memory Card (For the model detail and compatible series, please refer to brochures)	Microphone
Shoulder	HXR-MC2500		  	  
Compact	HXR-NX100	 	  	 
	PXW-X70	 	  	
	HXR-NX5R	 		
3-Chip	PXW-X180/ PXW-X160	 	        	
	PXW-X200	 	     	 
Large Format Sensor	NEX-EA50		 	
	NEX-FS700	 	 	  
	PXW-FS5		  	
	PXW-FS7	 		
	PXW-FS7M2/ PW-FS7M2K			
4K Hand-Held	PXW-Z100			
4K Compact	PXW-Z150	 	  	 

• Not all the accessories is listed
• * For PXW-X160 only

• Wireless can be achieved by supported Wifi/3G/4G/LTE Dongle
• ** PXW-X180 only

Model	Wired LAN Connection	Wireless	Video Light	Conversion Lens	Remote Commander	Raw Recording Products	Extension Unit	Camcorder Support	Carrying Case
					RM-1BP				
			HVL-LBPC	VCL-HG0872K	RM-1BP RM-30BP				
SMAD-P3 SMAD-P3D	CBK-NA1R VMC-UAM1				RM-VPR1				
				VCL-HG0872K	RM-1BP RM-30BP				
UWP-D11	CBK-NA1R**	CBK-WA100*			RM-1BP				LCS-G1BP
UWP-D12	CBK-NA1R								
UWP-D16									
URX-P03D									
						HXR-IFR5 AXS-R5 BP-FL75 BC-L90 AXS-CR1 512S24	VCT-SP2BP		
SMAD-P3 SMAD-P3D		CBK-WA100	HVL-LBPC		RM-1BP RM-30BP				
					RM-1BP	HXR-IFR5 AXS-R5 BP-FL75 BC-L90 AXS-CR1 512S24	XDCA-FS7	VCT-FS7	
SMAD-P3 SMAD-P3D				VCL-HG0872K	RM-1BP RM-30BP				LCS-G1BP

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