



## FDRAX43/B

### AX43 4K Handycam® with Exmor R® CMOS sensor

Delivering superb solutions for content creators and videographers, with Balanced Optical SteadyShot, to rival gimbal systems, high-resolution 4K<sup>1</sup> movie recording and high-quality sound with a unique microphone the AX43 Handycam® camcorder puts professional production and simple movie sharing within anyone's grasp.



### Bullets

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- 4K<sup>1</sup> 16:9 video optimized 1/2.5" Exmor R® low-light CMOS Sensor
- Built-in gimbal - Balanced Optical SteadyShot image stabilizer
- 20x optical zoom and Clear Image Zoom of 30x for 4K<sup>1</sup> / 40x for HD<sup>2</sup>
- Fast Intelligent AF tracks focus to captures decisive moments
- 26.8mm<sup>2</sup> wide-angle ZEISS® Vario-Sonnar T\* zoom lens
- High-bitrate XAVC S™ 4K<sup>1</sup> up to 100Mbps / HD up to 50Mbps
- Realistic audio with clear 5.1ch and 2ch sound<sup>5</sup>
- Highlight Movie Maker automatically creates short movies<sup>10</sup> to share
- Flip out tilting 3" Clear Photo touch screen LCD - ideal for vlogging
- Produce high quality 4K Time Lapse<sup>7</sup> for an immersive experience
- Dedicated button starts Highlight Movie Maker to create short movies
- Wi-Fi for One-touch remote and One-touch sharing using smartphone<sup>8</sup>

### Features

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#### Brilliant true-to-life 4K<sup>1</sup>

The compact and lightweight AX43 Handycam® camcorder features the latest generation ZEISS® Vario-Sonnar T\* 20x optical zoom lens and 16:9 video optimized 1/2.5" Exmor R® CMOS sensor that enhances the spectacular detail of 4K<sup>1</sup> resolution with increased sensitivity for capturing high-quality movies in low-light. High bit-rate recording in XAVC-S format and fast intelligent autofocus clearly captures even fast moving and complex scenes.

#### Built-in gimbal

Sony's unique Balanced Optical SteadyShot™ image stabilization system with a gimbal mechanism is about 13 times more effective than other optical systems<sup>3</sup>. Capture smooth, professional-looking images, even at full zoom or while running, with no need for bulky and costly external gimbals.

#### Exmor R® CMOS sensor and BIONZ X processing engine

The newly developed 1/2.5" Exmor R® CMOS image sensor is optimized for 4K<sup>1</sup> movie recording with its 16:9 aspect ratio and pixels of approximately 1.6 times bigger size than

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previous AX-series camcorders. It offers superior sensitivity for capturing beautiful high-quality images with less noise under dark as well as bright shooting conditions, while the BIONZ X processing engine achieves more naturally vivid and lifelike images with faster processing. Capture stunning video in both 4k/24p/30p and Full HD 60p/30p. Versatile shooting w/ XAVC S™, AVCHD® and MP4 codecs.

## Get more in

Fit more in your frame with the 26.8mm<sup>2</sup> wide-angle ZEISS® Vario-Sonnar T\* zoom lens, specifically designed for high-resolution 4k<sup>1</sup> movie recording. It achieves outstanding image quality due to the ED (Extra-low Dispersion) lens that reproduces accurate color and AA (advanced aspherical) lens which provides high resolution image reproduction. Get close to the action with 20x optical zoom and Clear Image Zoom of 30x for 4K and 40x for HD.

## Fast Intelligent Autofocus

Fast Intelligent AF algorithm optimizes communication between the lens and the image processor to achieve incredibly rapid and accurate contrast-detection focus. This state-of-the-art AF range prediction system minimizes lens motion, predicting the autofocus range, to accelerate the lens drive, thereby improving response so you can capture precise moments.

## Great sound, less noise

The AX43 camcorder has a premium three mic. capsule structural design that enables it to gather sound from five directions. This enables the camera to reproduce clearer sound, yielding up to 40%<sup>4</sup> less noise and is twice as effective in 2ch stereo (for XAVC S shooting) and three times as effective in 5.1ch surround (5.1ch for AVCHD shooting). This makes it possible to faithfully reproduce audio with clearly defined separation. Advanced sound features such as Auto Wind Noise Reduction and My Voice Cancelling make it even easier to attain ideal sound quality in various situations.

## Vlog ready

The AX43 is the ideal vlogging camera for all types content creators. High resolution 4k, ZEISS lens with Fast Intelligent AF and Balanced Optical SteadyShot offers incredible image quality while the on-board microphone and MI (Multi-interface) shoe which can be used with a variety of optional external microphones deliver outstanding low-noise audio. Compatibility with accessories like the GP-VPT1 shooting grip enhance the versatility of this already amazing camera, while Highlight Movie Maker makes it super-simple to automatically create short videos for instant sharing.

## LCD copy

Flip out tilting 3" Clear Photo touch screen LCD is ideal for is perfect for selfie and almost any other shot-composition from behind or in-front of the camera to high and low-angle shots. Power automatically turns on when you open the LCD and all settings are accessible on the touch screen for easy and fast operation.

## Highlight Movie Maker makes movies easy

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Highlight Movie Maker is a versatile automatic in-camera movie editing function to streamline movie editing. It can automatically create 4K<sup>10</sup> or HD movies out of several of your clips with time-saving features by picking highlight moments in your footage like zooming or points you select while recording. Then the camcorder automatically sync movie transitions to your chosen soundtrack. You can also customize with transition effects and your own soundtrack music<sup>9</sup>, and once completed, easily share MP4 movies on social media sites via a smartphone.

## 4K Time-lapse Capture<sup>9</sup>

Create captivating 4K time-lapse movies. You can capture 4K (8.3MP) still images continuously over an extensive period of time at a selected constant interval from each shot to the next. Then edit the entire sequence of still images in post-production<sup>9</sup> software and enjoy playback as a time-lapse movie.

## Dual Video Recording

Record two movies at the same time — one in the maximum-quality XAVC S or AVCHD format and another in MP4 format. That way you've got a small file ready for instant sharing, plus a professional-grade file for further editing.

## Wi-Fi w/ One-touch remote and sharing

Built-in Wi-Fi with NFC for easy connectivity, allows for 'One-touch remote' which lets you use your smartphone or tablet as a viewfinder, while 'One-touch sharing' lets you transfer your photos and videos from your camera to your mobile device for instant sharing on Social Media sites. Connect to your mobile device with the free Imaging Edge Mobile app available for both Android and Apple iOS.

## Pro features

Enjoy customization with ergonomic manual controls. Use the intuitive touch screen to adjust focus, exposure, IRIS, shutter speed, AE shift, or white balance shift mode. Time Code and User Bit can be added to movies as data elements. Time Code function records hours/minutes/seconds/frames on image data for precise advanced video editing. User Bit function records information such as date/time/scene number, etc. in eight-digit arbitrary numbers, and is useful for editing movies using two or more cameras.

## Multi Camera Control

More shots mean more editing opportunities. Easily record footage from a variety of angles, whether using cameras mounted directly to the Handycam<sup>®</sup> or triggered wirelessly. Multi Camera Control makes it easy to sync shooting settings on compatible Wi-Fi<sup>®</sup> connected devices.

## Specification

Imaging Sensor	
Imaging Sensor	1/2.5 type(7.20mm) back-illuminated Exmor R CMOS Sensor
Processor	BIONZ X image processor

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Pixel Gross	approx. 8.57 Megapixels
Effective Picture Resolution(movie)	approx. 8.29 Megapixels(16:9) *1
Effective Picture Resolution(still)	approx. 8.29 Megapixels(16:9)/approx. 6.22 Megapixels(4:3)
Color Filter System	RGB primary color filters
<b>Recording</b>	
Media Type	XAVC S 4K(100Mbps): SDHC Memory Card(4GB or over,UHS-I U3 or Higher)/SDXC Memory Card(UHS-I U3 or Higher)
Media Type	XAVC S 4K(60Mbps): SDHC Memory Card(4GB or over,Class 10 or Higher)/SDXC Memory Card(Class 10 or Higher)
Media Type	XAVC S HD: SDHC Memory Card(4GB or over,Class 10 or Higher)/SDXC Memory Card(Class 10 or Higher)
Media Type	AVCHD,Still: Memory Stick PRO Duo (Mark 2), Memory Stick PRO-HG Duo, Memory Stick XC-HG Duo, SD/SDHC/SDXC Memory Card(Class 4 or Higher)
Maximum Capacity of External Media	256GB(As of 12/2019)
Still Image File Format	DCF Ver.2.0 compatible, Exif Ver.2.3 compatible, MPF Baseline compatible
Still Image Mode	JPEG
Still Image Max Effective	16.6 Megapixels
Still Image Size(Movie Mode)	M: 8.3 Megapixels 16:9 (3840x2160) S: 2.1 Megapixels 16:9 (1920x1080)
Still Image Size(Photo Mode)	L: 16.6 Megapixels 16:9 (5440x3056),12.5 Megapixels 4:3 (4080x3056) M: 8.3 Megapixels 16:9
Still Image Size(Photo Mode)	(3840x2160),6.2 Megapixels 4:3 (2880x2160)
Still Image Size(Photo Mode)	S: 2.1 Megapixels 16:9 (1920x1080),0.3 Megapixels 4:3 (640x480)
Video Format	XAVC S format:MPEG4-AVC/H.264
Video Format	AVCHD format ver.2.0 compatible:MPEG4-AVC/H.264

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Video Format	MP4: MPEG-4 AVC/H.264
Video Mode(Resolution)	XAVC S 4K : 3840x2160/30p, 24p
Video Mode(Resolution)	XAVC S HD : 1920x1080/60p, 30p, 24p
Video Mode(Resolution)	AVCHD : 1920x1080/60p(PS),30p(FX,FH),24p(FX,FH),60i(FX,FH), 1440x1080/60i(HQ,LP)
Video Mode(Resolution)	MP4: 1280x720 30p
Movie Recording Rate(Average Bit Rate/VBR) *2	XAVC S 4K: approx.100Mbps XAVC S 4K: approx.60Mbps XAVC S HD: approx.50Mbps AVCHD PS:approx.28Mbps/FX:approx.24Mbps/FH:approx.17Mbps/HQ:ap prox.9Mbps/LP:approx.5Mbps MP4: approx.3Mbps
Video Actual (Pixel)	approx. 8.29 Megapixels(16:9) *1
Progressive Mode	XAVC S 4K : 30p/24p, Progressive recording XAVC S HD: 60p/30p/24p, Progressive recording AVCHD: 60p/30p/24p, Progressive recording MP4: 30p, Progressive recording
Photo Capture from Movie	XAVC S 4K: 8.3 Megapixels 16:9 (3840x2160) XAVC S HD: 2.1 Megapixels 16:9 (1920x1080) AVCHD: 2.1 Megapixels 16:9 (1920x1080)
Dual Record *7	M: 8.3 Megapixels 16:9 (3840x2160) S: 2.1 Megapixels 16:9 (1920x1080) *8 *9
Audio Format	LPCM 2ch(48kHz/16bit) *10 Dolby Digital 5.1ch, Dolby Digital 5.1Creator *11 Dolby Digital 2ch Stereo, Dolby Digital Stereo Creator *11 MPEG-4 AAC-LC 2ch *12
Microphone/Speaker	Built-in Zoom Microphone Monaural Speaker
Mic Level Control	Yes(31steps)
Auto wind noise reduction	Yes(On/Off)
Dual Video Recording	Yes *13
Video Signal	UHDTV HDTV NTSC color, EIA standards

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Optics/Lens	
Lens Type	ZEISS Vario-Sonnar T*
Lens Stabilization	Balanced Optical SteadyShot
Aperture	F2.0-3.8
Optical Zoom	20x
Digital Zoom *14	250x
Clear Image Zoom	4K : 30x HD : 40x *15
Focal Distance	f=4.4-88mm f=3/16 - 3 1/2 inch
Focal Length(35mm equivalent)(Movie Mode)	f=26.8-536.0mm(16:9) *1 f=1 1/16 - 21 1/8 inch *1
Focal Length (35mm equivalent) (Photo Mode)	f=26.8-536.0mm(16:9) f=32.8-656.0mm(4:3) f=1 1/16 - 21 1/8 inch (16:9) f=1 5/16 - 25 7/8(4:3)
Filter Diameter	55mm 2 1/4inch
Minimum Focus Distance	approx.1cm(Wide), approx.80cm(Tele) approx.13/32inch(Wide), approx.31 1/2inch(Tele)
Aperture Blade	6 blades
LCD Display	
LCD Type	7.5cm(3.0 type) Clear Photo LCD display (460 800 dots) Wide(16:9)
Touch Panel	Yes
Angle Adjustment	Opening Angle:max.90 deg., Turning Angle:max.270 deg.
Brightness Control *16	Yes(Menu)
LCD Backlight	yes
Coverage	100%
Marker/Grid Display	Grid Line *17
Focus Control	
Focus System	Contrast AF

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AF Modes	Auto/Manual(Touch Panel)
Focus Area	Full range Focus/Spot Focus
Manual Focus Assist	Peaking Display
Focus Features	Lock-on AF *8
Fast Intelligent AF	Yes
<b>Exposure System</b>	
Metering Modes	Multi-segment/Spot
Exposure Compensation	AE Shift(Touch Panel)
Exposure Settings	Auto Flexible Spot(Touch Panel) Manual(Menu)
LOW LUX Mode	Yes
Scene Mode(s)	Auto/Night Scene/Sunrise & Sunset/Fireworks/Landscape/Portrait/Spotlight/Beach/Snow
Backlight Compensation	Yes(Auto)
Noise Reduction	Yes
White Balance Mode	Auto/Onepush/Outdoor/Indoor
WB Shift	Yes
Minimum Illumination	4K:Standard:9 lux(1/60 Shutter Speed) HD:Standard:6 lux(1/60 Shutter Speed) 4K:Low Lux 1.8lux(1/30 Shutter Speed) HD:Low Lux 1.2lux(1/30 Shutter Speed)
Auto Iris Control	F2.0-F11
Manual Iris Control	F2.0-F11
Manual Exposure Assist	Zebra Pattern Display
<b>Drive System</b>	
Drive Mode	Photo Mode:Single-shot/Self-timer
Self-timer	approx.10sec.(Still Image/Golf Shot)
Shutter Speed Auto Control Range	1/8-1/10000
Shutter Speed(Standard)	1/60-1/10000
Shutter Speed(Manual Iris Control)	1/30-1/10000

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Shutter Speed(Manual Shutter)	1/8-1/10000
Shutter Speed(Smooth Slow Rec)	1/250-1/10000
<b>Convenience Features</b>	
Manual/Auto Lens Cover	Auto
S/S & Zoom button on LCD	Yes(Touch Panel)
Red Eye Reduction	Yes *18
Fader Effect(s) *19	White/Black
Digital Picture Effects/Picture Effects	-/Yes
Date/Time Stamp	Yes(Rec Date and Time, Camera info)
Erase/Protect	Yes/Yes
Media/Battery Indicator	Yes(recordable time, free and used media space)/Yes(recordable time, remaining capacity)
On Screen Main Indicators	Intelligent Auto Status Zoom Position Recording/Playback/Editing Media Recording Status Recording Mode Recording Image Quality Photo Size Shooting Mode Status
Multiple Language Display	English French Spanish Brazilian Portugese
Still Image Playback Options	Slide Show
Video Playback Options	Highlight Movie Maker Highlight background music(Preinstalled 6 music files, Music transfer compatible *20)
Remote Control	Yes(Optional)
Time code/User Bit	Yes
Self Recording	Yes
Filter mode	Yes



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Time-Lapse Capture	Yes
Shooting Interval	1/2/5/10/30/60sec
Shot Number	1-999
Capture Image Size	4K:L(8.3M;3840x2160)/HD:S(2.1M;1920x1080)
AE Mode	AE Lock/AE Tracking
<b>Advanced Features</b>	
Wi-Fi(built-in)	Send to Smartphone Control with Smartphone Multi Camera Control
View on TV	Yes
NFC	One-touch remote One-touch sharing
My Voice Canceling	Yes
AGCLimit	Yes
Audio Level Display	Yes
Power Save	Yes
Cinematone	Yes
Face Detection	Yes *8
Smile Shutter *7	Off/Dual Capture/Always On *8 *9
Golf Shot	Yes *11
Smooth Slow Rec	Yes *11
Image Stabilization	Balanced Optical SteadyShot w/ Intelligent Active mode(5-axis) *21
Intelligent Auto	Portrait/Baby/Walk/Tripod/Backlight/Landscape/Spotlight/Twilight/Macro/Low light/Auto wind noise reduction
View&Index	Event
x.v.Color	Yes
Airplane Mode	Yes
Motion Shot Video	Yes *24
High Speed Rec	Yes(120p/1920x1080,100/60Mbps)
Trimming Playback	Yes

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Flash	
Flash Metering System	Pre-flash TTL *18
Flash Modes	Auto/On/OFF *18
Flash Compensation	Yes(3 steps) *18
Interface	
Wireless LAN(built-in)	Yes(Wi-Fi Compatible, IEEE 802.11b/g/n(2.4GHz band) ) *25
NFC	Yes (NFC forum Type 3 Tag compatible)
Memory Card Slot	Memory Stick PRO Duo and SD/SDHC/SDXC compatible
STD Output	Composite Video Out(AV CABLE(sold separately))
HD Output	HDMI Out(micro)(supplied)
4K Output	HDMI Out(micro)(supplied)
Multi/Micro USB Terminal *26	Yes
BRAVIA Sync	Yes
PhotoTV HD	Yes
Headphone Jack	Stereo Minijack
Microphone Input	Stereo Minijack
Direct Copy	Yes
DC IN	Yes
Remote Terminal	integrated into Multi/Micro USB Terminal *27
HDMI Terminal	Yes (HDMI micro) *28
Accessory Shoe	Yes(Multi Interface Shoe)
Weights and Measurements	
Dimensions(Approx.) (WxHxD including supplied battery) *29 *30	Approx.73mm x 80.5mm x 142.5mm(Approx.73mm x 80.5mm x 173mm(NP-FV70A)(including supplied battery))  Approx.2 7/8inch x 3 1/4inch x 5 5/8inch(Approx.2 7/8inch x 3 1/4inch x 6 7/8inch(NP-FV70A)(including supplied battery))
Weight(Approx) (Main unit only)	Approx.510g Approx.1lb 2.0oz

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Weight(Approx.) (Total) *31	Approx.560g(NP-FV50A) Approx.600g(NP-FV70A)(supplied battery) Approx.660g(NP-FV100A) Approx.1lb 3.8oz(NP-FV50A) Approx.1lb 5.2oz(NP-FV70A)(supplied battery) Approx.1lb 7.3oz(NP-FV100A)
<b>Power</b>	
Battery Type	InfoLITHIUM with AccuPower Meter System (V Series) *32
Charge on camcorder(Charging time with supplied Battery) *33	Yes(approx. 3h 25min)
Power Consumption (in LCD Operation) *34	4K:5.1W
Power Requirements	6.8V/7.3V(battery pack); 8.4V (AC Adaptor)
<b>In the Box</b>	
Supplied Accessory *35	Rechargeable Battery Pack(NP-FV70A) (1) AC Adaptor (1) Power Cord (1) Operating Guide(1) HDMI(micro) Cable (1) micro USB Cable (1)
<b>Optics/Lens(details)</b>	
SteadyShot mode:Active(16:9)	4K : f=27.3 -818.4mm HD : f=27.3 -1091.2mm
SteadyShot mode:Intelligent active(16:9)	f=28.1-1122.6mm
<b>Camera(details)</b>	
Auto Non Flicker	Yes
Gain Control	Auto
Scene Selection	1/8-1/10000
LOW LUX	1/30-1/10000
Manual Iris Control(Photo Mode)	1/8-1/1000
Manual Shutter Control(Photo Mode)	1/8-1/500
<b>Face Detection</b>	

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Auto Control	Exposure,Color,Focus
<b>Smile Shutter</b>	
Smile Sensitivity	Yes(3steps)
<b>Imaging Sensor(details)</b>	
Recording pixels(photo, 16:9)	Max. 16.6 Megapixels
Effective(movie, 16:9)	approx. 8.29 Megapixels
<b>Panel(details)</b>	
Panel(details)	7.5cm(3.0 type) Clear Photo LCD display(460 800 dots) Wide(16:9) (960x480)
<b>USB Charging(details)</b>	
USB Charging(details)	DC 5V 1500mA
<b>Convenience Features(details)</b>	
Image Management File Repair	Yes
Fast Playback	About 5 times/10 times/30 times/60 times
Slow Playback	Forward:1/5 speed, Reverse:1/2 speed
Date&Time, Area Setting	Yes
Media Format	Memory Card
<b>Others(details)</b>	
XLRBox	Yes (w/ optional XLR Adaptor Kit)
5.1ch Center Mic Ready(w/ Optional microphone)	Yes(w/ Optional Shoe Adaptor)
Demonstration Mode	Yes
Operating Temperature	0 degrees C. - +40 degrees C. / 32 degrees F. - 104 degrees F.
Storage Temperature	-20 degrees C. - +60 degrees C. / -4 degrees F. - +140 degrees F.
<b>*1</b>	
<b>*2</b>	
<b>*3</b>	

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\*4

\*5

\*6 Approximate number when recording only still images.

\*7 Not available in the recording mode PS(60p/50p), FX(24p/25p/60i/50i) and FH(24p/25p)

\*8 Not available in the 4K Recording mode with Dual Video Recording

\*9 Not available in 100Mbps Movie Recording Rate.

\*10 Video Mode is XAVC S HD or 4K.

\*11 Video Mode is AVCHD.

\*12 Video Mode is MP4.

\*13 "Dual Video Recording" doesn't work in "AVCHD PS" mode or "XAVC S HD 60p" mode.

\*14 The factory setting is "Off". Digital zoom ratio includes optical zoom ration.

\*15 When "SteadyShot" is set to "Active" or "Intelligent Active".

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\*16 Backlight brightness will automatically be set "Bright" when connected to AC adaptor.

\*17 the same as Guide Flame

\*18 w/ Optional Flash Accessory

\*19 Only record movie

\*20 PlayMemories Home Ver.4.1 or later is required.

\*21 Not supported at XAVC S 4K

\*22 As for dust-proof/shock-proof performance, there is no guarantee that the camcorder will not become scratched or dented.

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\*23 Meeting to MIL-STD 810F Method 516.5-Shock standards, this product has passed the required tests when dropped from a height of 1.5 m above a 5 cm thick plywood board (with the LCD screen closed, facing toward the camcorder body)\*. Depending on use conditions and circumstances, no guarantee is made regarding damage to, malfunction of, or the water-proof performance of this camcorder. As for dust-proof/shock-proof performance, there is no guarantee that the camcorder will not become scratched or dented.

\*24 available only in AVCHD or XAVC S HD or MP4

\*25 (Configuration method/Access method) WPS or manually /infrastructure mode. When connecting to smartphones, the camera can always work as a base without a wireless access point. (Security: WEP/WPA-PSK/WPA2-PSK)



**\*26 Supports Micro USB compatible device.**

**\*27 Supports Micro USB compatible device.**

**\*28 output only**

**\*29 including the projecting parts**

**\*30 including lens hood if it is supplied**

**\*31 including a battery pack and a media(if a lens hood is supplied, including it too.).**

**\*32 Except for NP-FV30**

**\*33 When using supplied AC adapter. When the AC adaptor is not supplied, using USB charging.**

**\*34 Recording mode and media are default settings.**

**\*35 The numbers in ( ) are the supplied quantity**

1. 4K (3840x2160). Requires SDXC/SDHC memory card Class 10 or higher for XAVC S 4K 60Mbps and XAVC S HD 50Mbps recording, and SDHC/SDXC memory card UHS-I U3 or higher for XAVC S 4K 100Mbps recording
2. 35mm equivalent and when "SteadyShot" is set to "Standard" or "Off".
3. When "SteadyShot" is set to "Active" or "Intelligent Active"
4. Compared to previous FDR-AX33 camcorder series.
5. Video Mode is 5.1ch (AVCHD) and 2ch (XAVC S) recording
6. (Highlight) When Dual Video Recording is ON. Video resolution is 1280 x 720 mp4.
7. Requires editing with PlayMemories Home™ (free software for PCs). Ver. 5.1 (available in January 2016) or later version is required to create time-lapse movie.
8. Requires NFC-compatible mobile device. Check device's user manual for compatibility.
9. PlayMemories Home™ (free software for PCs) is available for compiling time lapse movies and select and transfer background music to the Handycam® for Highlight Movie Maker. The latest version is required.
10. When Dual Video Recording is ON. Video resolution is 1280 x 720 mp4.
- 11.



- 12.
- 13.
- 14.
- 15.

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