



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SONY FDR-AX100. You'll find the answers to all your questions on the SONY FDR-AX100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SONY FDR-AX100  
User guide SONY FDR-AX100  
Operating instructions SONY FDR-AX100  
Instructions for use SONY FDR-AX100  
Instruction manual SONY FDR-AX100

The image shows the cover of the Sony FDR-AX100 Operating Guide. At the top left is the Sony logo, and at the top right is the phone number 4-534-651-11(1). The main title is "Digital 4K Video Camera Recorder" and "Digital HD Video Camera Recorder". Below this is "Operating Guide" in a black box. To the right is a table of contents with five items: "Getting started", "Recording/Playback", "Saving images", "Customizing your camcorder", and "Others". Below the title is a QR code and the text "Please also refer to: http://www.sony.net/SonyInfo/Support/". At the bottom are logos for AVCHD Progressive, XAVC S, 4K, HDMI, iFOTO, and other features. The model numbers "FDR-AX100/FDR-AX100E/HDR-CX900/HDR-CX900E" are listed at the very bottom.



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**Manual abstract:**

@@Model No. FDRModel No. HDRSerial No. \_\_\_\_\_ Model No. AC-\_\_\_\_\_ Serial No. @@@@Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician **WARNING** To reduce the risk of fire or electric shock, 1) do not expose the unit to rain or moisture. 2) do not place objects filled with liquids, such as vases, on the apparatus. Do not expose the batteries to excessive heat such as sunshine, fire or the like.

- **GB 2** for replacement of the obsolete outlet. • **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.** • **Only use attachments/accessories specified by the manufacturer.** • **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over. • **Unplug this apparatus during lightning storms or when unused for long periods of time.** • **Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.** • **If the shape of the plug does not fit the power outlet, use an attachment plug adaptor of the proper configuration for the power outlet.** **GB 3 Representative plug of power supply cord of countries/regions around the world.**

A Type (American Type) B Type (British Type) BF Type (British Type) B3 Type (British Type) C Type (CEE Type) SE Type (CEE Type) O Type (Ocean Type) The representative supply voltage and plug type are described in this chart. Depend on an area, Different type of plug and supply voltage are used. Attention:

Power cord meeting demands from each country shall be used. – For only the United States Use a supplied power cord. Europe Countries/regions Austria Belgium Czech Denmark Finland France Germany Greece Hungary Iceland Ireland Italy Luxemburg Netherlands Norway Poland Portugal Romania Russia Slovak Spain Sweden Switzerland UK GB Voltage 230 230 220 230 230 230 230 220 220 230 230 220 230 230 230 220 230 220 220 220 127/230 230 230 240 Frequency (Hz) 50 Plug type C C C C C C C C C C C C C/ BF C C C C C C C C C C C BF 4 Asia Countries/regions China Hong Kong India Indonesia Japan Korea (rep) Malaysia Philippines Singapore Taiwan Thailand Vietnam Voltage 220 200/220 230/240 127/230 100 220 240 220/230 230 110 220 220 Voltage 240 230/240 Voltage 120 120 Voltage 120/240 110 110/220 110 110 120 110 110 120/127 120/240 110/220 Frequency (Hz) 50 50 50 50 50/60 60 50 60 50 60 50 50 Frequency (Hz) 50 50 Frequency (Hz) 60 60 Frequency (Hz) 60 60 60

60 60 60 60 50 60 60 60 60 Plug type A BF C C A C BF A/C BF A C/BF A/C Plug type O O Plug type A A Plug type A A A/C A A A A A A A A Oceania Countries/regions Australia New Zealand North America Countries/regions Canada USA Central America Countries/regions Bahamas Costa Rica Cuba Dominican (rep) El Salvador Guatemala Honduras Jamaica Mexico Nicaragua Panama GB 5 South America Countries/regions Argentina Brazil Chile Colombia Peru Venezuela Voltage 220 127/220 220 120 220 120 Voltage 220 220 230 127/220 220 240 Voltage 127/220 220 220 220 240 230 220/230 230 220 Frequency (Hz) 50 60 50 60 60 60 Frequency (Hz) 50 50 50 50 50 50 Frequency (Hz) 50 50 50 50 50 50 50 50 Plug type C/BF/O A/C C A A/C A Plug type C/BF C/BF C A/C/BF C C/BF Plug type C C C C C/BF C/BF C/BF C/BF C Middle East Countries/regions Iran Iraq Israel Saudi Arabia Turkey UAE Africa Countries/regions Algeria Congo (dem) Egypt Ethiopia Kenya Nigeria South Africa Tanzania Tunisia GB 6 **CAUTION** □ **Battery pack** If the battery pack is mishandled, the battery pack can burst, cause a fire or even chemical burns. Observe the following cautions. • **Do not disassemble.** • **Do not crush and do not expose the battery pack to any shock or force such as hammering, dropping or stepping on it.** • **Do not short circuit and do not allow metal objects to come into contact with the battery terminals.** • **Do not expose to high temperature above 60°C (140°F) such as in direct sunlight or in a car parked in the sun.** • **Do not incinerate or dispose of in fire.** • **Do not handle damaged or leaking lithium ion batteries.** • **Be sure to charge the battery pack using a genuine Sony battery charger or a device that can charge the battery pack.** • **Keep the battery pack out of the reach of small children.** • **Keep the battery pack dry.**

- **Replace only with the same or equivalent type recommended by Sony.** • **Dispose of used battery packs promptly as described in the instructions. Replace the battery with the specified type only. Otherwise, fire or injury may result. Use the nearby wall outlet (wall socket) when using the AC Adaptor.** **Disconnect the AC Adaptor from the wall outlet (wall socket) immediately if any malfunction occurs while using the apparatus.** □ **Note on the power cord (mains lead) The power cord (mains lead) is designed specifically for use with this camcorder only, and should not be used with other electrical equipment.**

Even if your camcorder is turned off, AC power source (mains) is still supplied to it while connected to the wall outlet (wall socket) via the AC Adaptor. **WARNING** Do not ingest battery, chemical burn hazard. The remote control supplied with this product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention. Excessive sound pressure from earphones and headphones can cause hearing loss.

□ **AC Adaptor** Do not use the AC Adaptor placed in a narrow space, such as between a wall and furniture. **GB 7 For Customers in the U.S.A. and Canada** □ **RECYCLING LITHIUM-ION BATTERIES** Lithium-Ion batteries are recyclable.



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You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you. For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit <http://www.call2recycle.org/> Caution: Do not handle damaged or leaking Lithium-Ion batteries. For Customers in the U.

S.A. If you have any questions about this product, you may call: Sony Customer Information Center 1-800-222-SONY (7669). The number below is for the FCC related matters only.  Regulatory Information Declaration of Conformity Trade Name: SONY Model No.

: FDR-AX100 Responsible Party: Sony Electronics Inc. Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.A. Telephone No.

: 858-942-2230 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.  Battery pack/AC Adaptor This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CAN ICES-3 B/NMB-3 B This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that are deemed to comply without testing of specific absorption ratio (SAR). GB Declaration of Conformity Trade Name: SONY Model No.: HDR-CX900 Responsible Party: Sony Electronics Inc. Address: 16530 Via Esprillo, San Diego, CA 92127 U.S.

A. Telephone No.: 858-942-2230 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. 8 This equipment must not be colocated or operated in conjunction with any other antenna or transmitter.  CAUTION You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment. The supplied interface cable must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.  For the State of California, USA only Perchlorate Material – special handling may apply, See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)  Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: – Reorient or relocate the receiving antenna.

– Increase the separation between the equipment and receiver. – Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. – Consult the dealer or an experienced radio/TV technician for help. For Customers in Canada This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

For Customers in Europe Hereby, Sony Corporation, declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL: <http://www.compliance.sony.de/> GB 9  Notice for the customers in the countries applying EU Directives Manufacturer: Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan For EU product compliance: Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany  Notice If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again. This product has been tested and found compliant with the limits set out in the EMC regulation for using connection cables ording in this format is recommended even if you do not have a 4K TV so you will be able to enjoy the benefits of 4K in the future. 1 920 × 1 080 50 Mbps Information volume is greater compared to AVCHD, enabling recording of clearer images. 1 920 × 1 080 Max. 28 Mbps Compatibility with recording devices other than computers is good.

• Bit-rate indicates the quantity of data recorded in a certain period. GB 12 Recording format and the available shooting mode Recording format Shooting mode XAVC S 4K Movie XAVC S HD Movie High Speed REC AVCHD Movie Smith Slw REC Golf Shot  [Image • You can change the recording format by selecting Quality/Size]  [ File Format]. Storage method Recording format XAVC S 4K (FDRAX100/AX100E) XAVC S HD AVCHD Storage method Computer using PlayMemories Home™ software Image quality stored at XAVC S 4K XAVC S HD Page 34 34 34 Computer using AVCHD PlayMemories Home software External media device AVCHD 35 • See the following website for the latest storage environment. <http://www.sony.net/> • You can store images by connecting to a recorder with an analog AV cable (sold separately). Movies are copied with standard definition image quality.  To transfer images to a smartphone You can transfer MP4 images to a smartphone connected to the camcorder via Wi-Fi (page 37). MP4 format is good for uploading to the Internet. When [Dual Video REC] is set to [On], the camcorder records movies in XAVC S 4K format (FDR-AX100/AX100E), XAVC S HD format, or AVCHD format while recording movies in MP4 format at the same time.

GB 13 Getting started Supplied items The numbers in ( ) indicate the supplied quantity. All models • Camcorder (1) • AC Adaptor (1) • Lens hood See page 50 on how to attach the lens hood to the camcorder. • Wireless Remote Commander (1) • Power cord (mains lead) (1) • Lens cap (attached to the camcorder) (1) • USB connection support cable (1) • “Operating Guide” (This manual) (1) FDR-AX100/AX100E only The USB connection support cable is designed for use with this camcorder only.



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Use this cable when the Built-in USB Cable of the camcorder is too short for connection. • Rechargeable battery pack NPFV70 (1) HDR-CX900/CX900E only • Rechargeable battery pack NPFV50 (1) • HDMI cable (1) GB 14 Charging the battery pack 1 Turn off your camcorder by closing the LCD monitor, retract the viewfinder, and attach the battery pack.

Getting started Battery pack the and the power cord (mains 2 Connect your AC Adaptor and the wall outlet (wall lead) to camcorder socket). AC Adaptor Power cord (mains lead) DC IN jack DC plug Align the □ mark on the DC plug with that on the DC IN jack. Wall outlet (wall socket) • The POWER/CHG (charge) lamp turns orange. • The POWER/CHG (charge) lamp turns off when the battery pack is fully charged. Disconnect the AC Adaptor from the DC IN jack of the camcorder.

□ Charging the battery using your computer Turn off your camcorder and connect the camcorder to a running computer using the Built-in USB Cable. GB 15  
□ Estimated time of charging the supplied battery pack (minutes) Model FDR-AX100/ AX100E HDR-CX900/ CX900E Battery pack NP-FV70 NP-FV50 AC Adaptor (supplied) 205 140 Computer 555 305 • The charging times are measured when charging an empty battery pack to its full capacity at a room temperature of 25 °C (77 °F). • The charging times are measured without using the USB connection support cable. □ Estimated time of recording and playback using the supplied battery pack (minutes) Model FDR-AX100/ AX100E HDR-CX900/ CX900E Battery pack NP-FV70 NP-FV50 Recording time Continuous 135 105 Typical 65 50 Playback time 180 135 • The recording and playback times are measured when using the camcorder at 25 °C (77 °F). • The recording times are measured when recording movies with the default settings ([ File Format]: [XAVC S 4K] (FDR-AX100/AX100E). [ File Format]: [AVCHD] (HDR-CX900/CX900E)). • Typical recording time shows the time when you repeat recording start/ stop, switching the [Shooting Mode], and zooming. • The recording time shows the time when recording with the LCD monitor open. □ To use your camcorder connected to the wall outlet (wall socket) Connect the camcorder to the wall outlet (wall socket) in the same way as “Charging the battery pack.” GB 16 □ To remove the battery pack Turn off your camcorder.

Slide the BATT (battery) release lever (□) and remove the battery pack (□). Getting started □ To charge the battery pack abroad You can charge the battery pack in any countries/regions using the AC Adaptor supplied with your camcorder within the AC 100 V - 240 V, 50 Hz/60 Hz range. • Do not use an electronic voltage transformer. GB 17 Turning the power on 1 Open the LCD monitor of your camcorder and turn the power on. • You can also turn on the camcorder by pulling out the viewfinder. monitor, 2 Following the instructions on the LCD Daylight select the language, the geographical area, Savings or Summer Time, date format, and the date and time. Touch the button on the LCD monitor. • To go to the next page, touch [Next]. • To turn off the power, close the LCD monitor. If the viewfinder is pulled out, retract it.

• To set the date and time again, select □ [Setup] □ [ Clock Settings] □ [Date & Time Setting]. • To turn off the operating sound, select □ [Setup] □ [General Settings] □ [Beep] □ [Off]. GB 18 Inserting a memory card 1 Open the cover, and insert the memory card until it clicks. Access lamp Getting started Insert the card with the notched corner in the direction as illustrated. • The [Preparing image database file.

Please wait.] screen appears if you insert a new memory card. Wait until the screen disappears. • To eject the memory card, open the cover and lightly push the memory card in once. □ Types of memory card you can use with your camcorder Recording images in the XAVC S format SD Speed Class SDXC memory card Class 10 or faster Capacity (operation verified) Up to 64 GB Recording images in a format other than XAVC S SD Speed Class SD memory card/SDHC memory card/SDXC memory card Memory Stick PRO Duo™ (Mark2) media/Memory Stick PRO-HG Duo™ media Memory Stick XC-HG Duo™ media Class 4 or faster Capacity (operation verified) Up to 64 GB – Up to 32 GB Up to 64 GB GB 19 □ To format the recording media • To ensure stable operation of the memory card, it is recommended to format the memory card with your camcorder before the first use.

• To format the memory card, select □ [Setup] □ [ Media Settings] □ [Format] □ desired recording medium □. • Formatting the memory card will erase all the data stored on it and the data will be irrecoverable. Save your important data on your PC, etc. Notes • Movies recorded on Memory Stick XC-HG Duo media or SDXC memory cards cannot be imported to or played back on computers or AV devices not supporting the exFAT\* file system by connecting the camcorder to these devices with the USB cable. Confirm in advance that the connecting equipment is supporting the exFAT system. If you connect equipment not supporting the exFAT system and the format screen appears, do not perform the format. All the data recorded will be lost. \* The exFAT is a file system that is used for Memory Stick XC-HG Duo media and SDXC memory cards. GB 20 Recording/Playback Recording Recording movies 1 Open the LCD monitor, and press START/STOP to start recording. Power zoom lever Recording/Playback • To stop recording, press START/STOP again.

• Items on the LCD monitor disappear if you do not operate the camcorder for a few seconds. To display items again, touch anywhere except the buttons on the LCD monitor. Notes • The zoom speed will become a little slower during movie recording. • While recording movies in XAVC S 4K format and [30p]/[25p] frame rate, video signals are not output to external media. □ To record MP4 movies simultaneously (Dual Video REC) When [Dual Video REC] is set to [On], the camcorder records movies in MP4 format while recording movies in XAVC S 4K format (FDRAX100/AX100E), XAVC S HD format, or AVCHD format at the same time. Select □ [Image Quality/Size] □ [Dual Video REC] □ desired setting. • MP4 format is easy for playing back your movies on a smartphone, for uploading to a network, or for uploading to the Web. GB 21 Notes • When [Dual Video REC] is set to [On], you cannot record photos during movie recording by pressing PHOTO. □ Recording photos during movie recording (Dual Capture) When [Dual Video REC] is set to [Off], you can record photos during movie recording by pressing PHOTO. Notes • You may not be able to shoot photos depending on the setting in [ REC Mode] and [ Frame Rate].

□ Magnifying the image to focus sharply (Focus Magnifier) Press FOCUS MAGNIFIER (page 50) to enable you to magnify an image at the center of the LCD monitor to check if it is in focus.



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Audio Level Display Image Quality/Size REC Mode Frame Rate Dual Video REC File Format Image Size Playback Function Event View Scenario Edit/Copy  
Send to Smartphone View on TV Send to Computer Delete Protect Copy Direct Copy\*2 Setup Media Settings Media Info Format Repair Img. DB F. File  
Number Playback Settings Data Code Volume Download Music\*3 Empty Music\*3 Connection WPS Push Access point settings Edit Device Name Disp MAC  
Address SSID/PW Reset Network Info Reset TV Type HDMI Resolution CTRL FOR HDMI USB Connect USB Connect Setting USB Power Supply USB LUN  
Setting GB 42 General Settings Beep Monitor Brightness Display Setting Airplane Mode REC Lamp Remote Ctrl Language Setting 24p Mode\*4 Cancel 24p  
Mode\*4 Calibration Battery Info Power Save Customizing your camcorder Initialize Clock Settings Date & Time Setting Area Setting \*1 You can set this item  
when you use a flash (sold separately). \*2 You can set this item when you use an external media device (sold separately). \*3 FDR-AX100/HDR-CX900 \*4  
FDR-AX100E/HDR-CX900E GB 43 Others Precautions AC Adaptor Do not short-circuit the battery terminal with any metallic objects.

This may cause a malfunction. Playing back images with other devices You may not be able to play back images that were recorded on your camcorder with  
other devices normally. Also, you may not be able to play back images recorded on other devices with your camcorder. Recording and playback • Avoid  
rough handling, disassembling, modifying, physical shock, or impact such as hammering, dropping or stepping on the product. Be particularly careful with  
the lens.

• To ensure stable operation of the memory card, it is recommended to format the memory card with your camcorder before the first use. Formatting the  
memory card will erase all the data stored on it and the data will be irrecoverable. Save your important data on your PC, etc. • Confirm the direction of the  
memory card. If you forcibly insert the memory card in the wrong direction, the memory card, memory card slot, or image data may be damaged. • Before  
starting to record, test the recording function to make sure the image and sound are recorded without any problems. • Television programs, films, video tapes,  
and other materials may be copyrighted. Unauthorized recording of such materials may be a violation of the copyright laws. • Compensation for the content  
of recordings cannot be provided, even if recording or playback is not possible due to a malfunction of the camcorder, recording media, etc. • The camcorder  
is not dustproofed, dripproofed or waterproofed.

• Do not let your camcorder get wet, for example, from rain or sea water. If your camcorder gets wet, it may malfunction. Sometimes this malfunction cannot  
be repaired. • Do not aim the camcorder at the sun or strong light. Doing so may cause your camcorder to malfunction. • Do not use the camcorder near  
strong radio waves or radiation. The camcorder may not be able to record or play back images properly. • Do not use the camcorder on a sandy beach or  
anywhere dusty. Doing so may cause your camcorder to malfunction. • If moisture condensation occurs, stop using the camcorder until moisture evaporates.  
• Do not subject the camcorder to mechanical shock or vibration. If you do so, the camcorder may operate incorrectly or may not record images. In addition,  
the recording medium or recorded data may be damaged. GB 44 LCD monitor The LCD monitor is manufactured using extremely high-precision technology,  
so over 99.99% of the pixels are operational for effective use.

However, there may be some tiny black points and/or bright points (white, red, blue, or green in color) that appear constantly on the LCD monitor. These  
points are normal results of the manufacturing process and do not affect the recording in any way. again or you may be unable to record movies. Deactivating  
wireless LAN (Wi-Fi, NFC, etc.) temporarily When you board an airplane, you can deactivate the Wi-Fi function temporarily.

Select  [Setup]  [General Settings]  [Airplane Mode]  [On]. Wireless LAN We assume no responsibility whatsoever for any damage caused by  
unauthorized access to, or unauthorized use of, destinations loaded on the camcorder, resulting from loss or theft. Viewfinder When no operation has been  
attempted for a certain amount of time, the viewfinder display will become dark to protect the viewfinder screen burn-in. The viewfinder display will return to  
normal when you operate the camcorder again. Others Troubleshooting If you run into any problems using your camcorder: • Check your camcorder  
referring to Help Guide (page 11). • Disconnect the power source, attach the power source again after about 1 minute, and turn the camcorder on. • Initialize  
your camcorder (page 43). All settings, including the clock setting, are reset. • Contact your Sony dealer or local authorized Sony service facility. Camcorder  
temperature If you use the camcorder continuously for a long time, the camcorder gets very warm.

This is not a malfunction. Overheat protection Depending on the camcorder and battery temperature, you may be unable to record movies or the power may  
turn off automatically to protect the camcorder. A message will be displayed on the LCD monitor before the power turns off or you can no longer record  
movies. In this case, leave the power off and wait until the camcorder and battery temperature goes down. If you turn on the power without letting the  
camcorder and battery cool enough, the power may turn off GB 45 Specifications System Signal format: FDR-AX100/HDR-CX900: NTSC color, EIA  
standards FDR-AX100E/HDR-CX900E: PAL color, CCIR standards FDR-AX100/AX100E: 4K (UHDTV), HDTV HDR-CX900/CX900E: HDTV Movie  
recording format: XAVC S (XAVC S format) Video: MPEG-4 AVC/H.264 Audio: MPEG-4 Linear PCM 2ch (48 kHz/16 bit) AVCHD (AVCHD format Ver.2.0  
compatible) Video: MPEG-4 AVC/H.264 Audio: MPEG-4 AAC-LC 2ch \*1 Manufactured under license from Dolby Laboratories. Photo file format:

1 Creator\*1 MP4 Video: MPEG-4 AVC/H.264 Audio: MPEG-4 AAC-LC 2ch \*1 Manufactured under license from Dolby Laboratories. Photo file format:  
DCF Ver.2.0 Compatible Exif Ver.

2.3 Compatible MPF Baseline Compatible Viewfinder: 1.0 cm (0.39 type) OLED/Color 1 440 000 dots equivalent Recording media (Movie/Photo): AVCHD,  
Photo Memory Stick PRO-HG Duo media, Memory Stick XC-HG Duo media, SD card (Class 4 or faster) XAVC S SDXC Memory Card (Class 10 or faster)  
GB Image device: 1.0-type (I3.

2 mm × 8.8 mm) back-illuminated Exmor R™ CMOS sensor Recording pixels (photo, 16:9): Max. 20.0 mega pixels (5 968 × 3 352)\*2 Gross: Approx. 20.9  
mega pixels Effective (movie, 16:9)\*3: Approx. 14.2 mega pixels Effective (photo, 16:9): Approx. 14.2 mega pixels Effective (photo, 4:3): Approx.

10.6 mega pixels Lens: ZEISS Vario-Sonnar T\* Lens 12× (Optical)\*3, 4K: 18× (FDRAX100/AX100E) HD: 24× (Clear Image Zoom, while recording  
movies)\*4, 160× (Digital) Filter diameter: 62 mm (2 1/2 in.) F2.



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8 - F4.5 Focal length:  $f = 9.3 \text{ mm} - 111.6 \text{ mm}$  (3/8 in. 4 1/2 in.) When converted to a 35 mm still camera For movies\*3: 29.0 mm - 348.0 mm (1 3/16 in. - 13 3/4 in.) (16:9) For photos: 29.0 mm - 348.0 mm (1 3/16 in. - 13 3/4 in.) (16:9)

Color temperature: [Auto], [One Push], [Indoor], [Outdoor], [Color Temp.] Minimum illumination: FDR-AX100/HDR-CX900 4K: 6 lx (lux) (FDR-AX100), HD: 3 lx (lux) (in default setting, shutter speed 1/60 second) 4K: 3 lx (lux) (FDR-AX100), HD: 1.7 lx (lux) ([Low Lux] is set to [On], shutter speed 1/30 second) NightShot: 0 lx (lux) (shutter speed 1/60 second) FDR-AX100E/HDR-CX900E 4K: 6 lx (lux) (FDR-AX100E), HD: 3 lx (lux) (in default setting, shutter speed 1/50 second) 4K: 3 lx (lux) (FDR-AX100E), HD: 1.7 lx (lux) ([Low Lux] is set to [On], shutter speed 1/25 second) NightShot: 0 lx (lux) (shutter speed 1/50 second) \*2 Total number of pixels: 921 600 (1 920 × 480) Wireless LAN Supported standard: IEEE 802.

11 b/g/n Frequency: 2.4 GHz Supported security protocols: WEP/WPA-PSK/WPA2-PSK Configuration method: WPS (Wi-Fi Protected Setup)/manual Access method: Infrastructure Mode NFC: NFC Forum Type 3 Tag compliant General Power requirements: DC 6.8 V/7.2 V (battery pack), DC 8.4 V (AC Adaptor) USB Charging: DC 5 V 1 500 mA Average power consumption: FDR-AX100/AX100E During camera recording using the viewfinder at normal brightness: 4K: 5.3 W, HD: 3.8 W\* During camera recording using LCD monitor at normal brightness: 4K: 5.6 W, HD: 4.0 W\* HDR-CX900/CX900E During camera recording using the viewfinder at normal brightness: HD: 3.2 W\* During camera recording using LCD monitor at normal brightness: HD: 3.

5 W\* \* in AVCHD HQ mode Operating temperature: 0 °C to 40 °C (32 °F to 104 °F) Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F) The unique image processing system of Sony's BIONZ-X allows still image resolution equivalent to the sizes described. \*3 [SteadyShot] is set to [Standard] or [Off]. @@@@ × 3 3/8 in. @@ × 3 3/8 in. @@ × 1 3/16 in. × 3 1/4 in.) \* See the label on the AC Adaptor for other specifications. □ Trademarks • AVCHD, AVCHD Progressive, AVCHD logotype and AVCHD Progressive logotype are trademarks of Panasonic Corporation and Sony Corporation. • Memory Stick and are trademarks or registered trademarks of Sony Corporation. • Blu-ray Disc™ and Blu-ray™ are trademarks of the Blu-ray Disc Association. GB 48 • Dolby and the double-D symbol are trademarks of Dolby Laboratories. • The terms HDMI and HDMI High Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. • Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. • Mac is a registered trademark of Apple Inc. in the United States and other countries. • Intel, Pentium and Intel Core are trademarks of Intel Corporation in the U.S. and/or other countries. • SDXC logo is a trademark of SD3C, LLC. • Android and Google Play are trademarks of Google Inc. • iOS is a registered trademark or trademark of Cisco Systems, Inc. • Wi-Fi, the Wi-Fi logo, Wi-Fi PROTECTED SET-UP are registered trademarks of the Wi-Fi Alliance. • The N Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries. • Facebook and the "f" logo are trademarks or registered trademarks of Facebook, Inc. • YouTube and the YouTube logo are trademarks or registered trademarks of Google Inc. • iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.

All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies. Furthermore, ™ and ® are not mentioned in each case in this manual. Others GB 49 Parts and controls Figures in ( ) are reference pages. □ Camera recording lamp □ NIGHT SHOT light □ Multi/Micro USB Terminal Supports Micro USB compatible devices. If you use an adaptor cable (sold separately), you can also use accessories via an AV remote connector. □ Multi interface shoe For details on compatible accessories of the Multi interface shoe, visit the Sony web site in your area, or consult your Sony dealer or local authorized Sony service facility. Operations with other manufacture's accessories are not guaranteed. If you use a shoe adaptor (sold separately), you can also use accessories compatible with an Active Interface Shoe. □ □ □ □ □ Built-in microphone Lens ring Lens (ZEISS lens) ZOOM/FOCUS switch AF/MF button MANUAL button MANUAL dial Manual functions can be assigned to the button and the dial. Attaching the lens hood (supplied) Align the red line on the lens hood with the red dot on the lens (hood index), then insert the lens hood into the lens mount and rotate it clockwise until it clicks into place.

□ PHOTO button (23) □ Power zoom lever (21, 23) □ N mark (38) NFC: Near Field Communication GB 50 □ Loop for a shoulder belt □ Grip belt □ FOCUS MAGNIFIER button □ (microphone) jack (PLUG IN POWER) □ Remote sensor □ NIGHT SHOT button □ Speaker □ Memory card access lamp (19) □ Memory card slot (19) □ HDMI OUT jack □ □ (headphones) jack □ ND FILTER (AUTO/MANUAL) switch □ ND FILTER switch □ LCD monitor/Touch panel □ Viewfinder The camcorder is turned on when the viewfinder is pulled out. When the LCD monitor is closed, pull out the viewfinder and move your eye closer to the viewfinder. You can view the subject through the viewfinder. Others □ Eye sensor □ Viewfinder lens adjustment dial □ □ □ □ □ POWER button WHITE BALANCE button PROGRAM AE button IRIS button GAIN/ISO button SHUTTER SPEED button (View Images) button (28) □ (My Voice Canceling) button Suppresses the voice of the person recording the movie. □ DISPLAY button □ Battery pack (15) □ POWER/CHG (charge) lamp (15) □ / (Shooting Mode) button (23) □ START/STOP button (21) □ Built-in USB Cable (15) □ DC IN jack □ Tripod receptacle If the indications in the viewfinder appear blurred, turn the viewfinder lens adjustment dial.

GB 51 □ BATT (battery) release lever □ To fasten the grip belt □ PAUSE button □ VISUAL INDEX button □ □/□/□/ENTER buttons • Remove the insulation sheet before using the Wireless Remote Commander. Insulation sheet Wireless Remote Commander □ □ □ □ □ □ □ □ GB 52 DATA CODE button PHOTO button SCAN/SLOW buttons □/□ (Previous/Next) buttons PLAY button STOP button DISPLAY button Transmitter START/STOP button Power zoom buttons Index A AC Adaptor 15 Android 37 App Store 37 Assigning a menu item 26 AVCHD 12, 13 Help Guide 11 I Install 37 iOS 37 Iris (aperture) 25 L LCD monitor 15 B Battery pack 15 Beep 18 Built-in USB Cable 15 M Manual recording 25 Memory card 19 Memory Stick PRO Duo (Mark2) media 19 Memory Stick PRO-HG Duo media 19 Memory Stick XC-HG Duo media 19 Menu lists 41 Menus 41 Movies 21 MP4 38 My Voice Canceling 22 C Charging the battery pack 15 Charging the battery using your computer 15 Charging time 16 Computer 34 Computer system 34 Others D Date and time 18 Delete 30 Dual Video REC 21 N ND filter 27 Network 32 NFC 38 E Edit 28 Exposure 26 O One-Touch functions (NFC) 37 F Focusing manually 27 Format 20 Full charge 16 P Photos 23 Playback 28 PlayMemories Home 34 PlayMemories Online 34 Power on 18 Precautions 44 G Gain (ISO) 25 Google play 37 Grip belt 52 H HD 35 HDMI cable 31 R Recording 21 Recording media 20 GB 53 Recording time 24 Recording/playback time 16 S SD memory card 19 Shutter speed 25 Smartphone 37 Software 34 Specifications 46 Supplied items 14 T Touch panel 23 Tripod 51 Troubleshooting 45 TV 31 U USB Adaptor Cable 35 W Wall outlet (wall socket) 16 Wi-Fi 37 Windows 34 Wireless access point 40 X XAVC S 4K 12, 13 XAVC S HD 12, 13 Z Zoom 21 GB 54 GB Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website.



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