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You can read the recommendations in the user guide, the technical guide or the installation guide for SONY HDR-CX405. You'll find the answers to all your questions on the SONY HDR-CX405 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SONY HDR-CX405
User guide SONY HDR-CX405
Operating instructions SONY HDR-CX405
Instructions for use SONY HDR-CX405
Instruction manual SONY HDR-CX405

SONY. 4-564-744-12(1)

Digital HD Video
Camera Recorder

Operating Guide

"Help Guide" (Web manual)
Refer to "Help Guide" for
in-depth instructions on the
many functions of the camera.
http://rd1.sony.net/help/cam/1440/h_zz/

Getting started
Recording/Playback
Saving images
Customizing your
camcorder
Others

AVCHD Progressive XAVC HDMI
UltraHD X RecordText MSCC XC
HANDYCAM. N

HDR-CX405/CX440/PJ410/PJ440



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Manual abstract:

@@ Model 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. 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. • 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. □ AC Adaptor Do not use the AC Adaptor placed in a narrow space, such as between a wall and furniture. 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. 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.

CAUTION □ Battery pack If the battery pack is mishandled, the battery pack can burst, cause a fire or GB 3 For Customers in the U.S.A. and Canada □ RECYCLING LITHIUM-ION BATTERIES Lithium-Ion batteries are recyclable. 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.: HDR-CX405, HDRCX440, HDR-PJ440 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 Part15 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. This equipment must not be colocated or operated in conjunction with any other antenna or transmitter. □ 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 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). □ CAUTION You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment. GB 4 □ 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.

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 Customers in Canada This device complies with Industry Canada licence-exempt RSS standard(s).



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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 □ 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 Hereby, Sony Corporation, declares that this equipment (HDR-CX440/HDR-PJ410/HDR-PJ440) 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/> □ 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. GB 5 This product has been tested and found compliant with the limits set out in the EMC
regulation for using connection cables shorter than 3 meters (9.

8 feet). The electromagnetic fields at the specific frequencies may influence the picture and sound of this unit. □ Disposal of waste batteries and electrical and
electronic equipment (applicable in the European Union and other European countries with separate collection systems) This symbol on the product, the
battery or on the packaging indicates that the product and the battery shall not be treated as household waste. On certain batteries this symbol might be used
in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or
0.004% lead. By ensuring these products and batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment
and human health which could otherwise be caused by inappropriate waste handling. The recycling of the materials will help to conserve natural resources.
In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be
replaced by qualified service staff only.

To ensure that the battery and the electrical and electronic equipment will be treated properly, hand over these products at end-of-life to the applicable
collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the
product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of
this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product or battery.
For Customers in Singapore For Customers in U.

A.E. GB 6 This manual describes 1080 60i-compatible devices and 1080 50i-compatible devices. To check whether your camera is a 1080 60i-compatible
device or 1080 50i compatible device, check for the following marks on the bottom of the camera. 1080 60i-compatible device: 60i 1080 50i-compatible
device: 50i Table of Contents Read this first .

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..... 33 You will find further information such as the following functions in Help Guide. • Highlight Movie Maker • Live Streaming • Multi Camera Control
GB 7 Getting started Supplied items The numbers in () indicate the supplied quantity. • Camcorder (1) • AC Adaptor (1) The shape of the AC Adaptor differs depending on the countries/ regions.

• USB connection support cable (1) T AVCHD and MP4 format simultaneously (Dual Video REC). MP4 format is easy for playing back your movies on a smartphone, for uploading to a network, or for uploading to the Web. @@@@2 Select [Image Shot on This Device]. @@@@For Windows, the following functions are also available. @@@@ Connect the AC Adaptor (supplied) to the camcorder.

Connect the AV cable (sold separately) to the camcorder. @@@@In that case, search for "PlayMemories Mobile".

@@@@@• The SSID and a password are Return to Home, and start up PlayMemories Mobile. displayed, and the camcorder is ready to be connected with the smartphone. 3 Connect the camcorder to the smartphone, and transfer images.

Android Connect Start up PlayMemories Mobile and select the SSID of the camcorder. Connect Input the password displayed on the camcorder (first time only). Saving images Using your smartphone as a wireless remote commander You can record with the camcorder using your smartphone as a wireless remote commander.

1 iPhone/iPad Connect Select [Settings] Connect [Wi-Fi] Connect the SSID displayed on the camcorder. Connect Input the password displayed on the camcorder (first time only). Connect Confirm that the SSID displayed on the camcorder is selected. On your camcorder, select Connect [Wireless] Connect [Function] Connect [Ctrl with Smartphone]. perform in the same way as in step 3 in "Connection without using NFC" (page 22). When you use NFC, display the recording screen on your camcorder, and touch on the camcorder to on the smartphone. 2 On your smartphone, 3 Operate the camcorder on your smartphone.

GB 23 Notes • Depending on local electrical interference or the smartphone's capabilities, the live view images may not be displayed smoothly. If the wireless access point has a WPS button Connect On your camcorder, select Connect [Wireless] Connect [Setting] Connect [WPS Push]. Connect Press the WPS button on the access point you want to register. Saving movies and photos to your computer via Wi-Fi Connect your computer to a wireless access point or wireless broadband router in advance.

1 Install the dedicated software in your computer (first time only). Windows: PlayMemories Home www.sony.net/pm/ Mac: Wireless Auto Import <http://www.sony.co.jp/imsoft/> Mac/

• If the software is already installed in your computer, update the software to the latest version. If you know the SSID and the password of your wireless access point Connect On your camcorder, select Connect [Wireless] Connect [Setting] Connect [Access point settings]. Connect Select the access point you want to register, enter the password, then select [Next].



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2 Connect your camcorder to an access point as follows (first time only). If you cannot register, refer to the instruction of the access point, or contact the person who set up the access point.

3 If your computer is not started, turn on the computer. GB 24 4 Start sending images from the camcorder to the computer. Press the (View Images) button on your camcorder. Select [Wireless] [Function] [Send to Computer]. • Images are automatically transferred to and saved on the computer. • Only newly recorded images are transferred. Importing movies and multiple photos may take time. Saving images GB 25 Customizing your camcorder Using the menus 1 Select . 2 Select a category. Number of the category which is displayed depends on the model. 3 Select a desired menu item. Scroll the menu items up or down. • Select to finish setting the menu or to return to the previous menu screen. GB 26 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 violate to 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. Others 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. GB 27 Camcorder temperature If you use the camcorder continuously for a long time, the camcorder gets very warm. This is not a malfunction. Notes on security when using wireless LAN products (HDR-CX440/PJ410/PJ440) • Always make sure that you are using a secure wireless LAN to avoid hacking, access by malicious third parties, or other vulnerabilities. • It is important that you set the security settings when using a wireless LAN. • If a security problem arises because no security precautions are in place or due to any inevitable circumstances when using a wireless LAN, Sony bears no responsibility for the loss or damage. 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 again or you may be unable to record movies.

Troubleshooting If you run into any problems using your camcorder: • Check your camcorder referring to Help Guide (page 7). • Disconnect the power source, attach the power source again after about 1 minute, and turn the camcorder on. • Initialize your camcorder. All settings, including the clock setting, are reset. • Contact your Sony dealer or local authorized Sony service facility.

Deactivating wireless LAN (Wi-Fi, NFC, etc.) temporarily (HDR-CX440/PJ410/PJ440) When you board an airplane, you can deactivate the Wi-Fi function temporarily. Select Setting [Wireless] [Airplane Mode] [On]. Wireless LAN (HDR-CX440/PJ410/PJ440) 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. GB 28 Specifications System Signal format: NTSC color, EIA standards (1080 60i compatible models) PAL color, CCIR standards (1080 50i compatible models) HD TV 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: Dolby Digital 2ch Dolby Digital Stereo 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 Recording media (Movie/Photo): Internal memory HDR-CX440/PJ440: 8 GB*2 AVCHD, Photo Memory Stick Micro (Mark2) media microSD card (Class 4 or faster) XAVC S microSDXC card (Class 10 or faster)

*2 The capacity that a user can use (Approx.

) 7.76 GB 1 GB equals 1 billion bytes, a portion of which is used for system management and/or application files. Only preinstalled demonstration movie may be deleted. Image device: 3.1 mm (1/5.8 type) CMOS Sensor Recording pixels (photo, 16:9): Max. 9.2 mega pixels (4 032 × 2 272)*3 Gross: Approx. 2 510 000 pixels Effective (movie, 16:9)*4: Approx. 2 290 000 pixels Effective (photo, 16:9): Approx.

2 290 000 pixels Effective (photo, 4:3): Approx.



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1 710 000 pixels Lens: ZEISS Vario-Tessar Lens 30× (Optical)*4, 60× (Clear Image Zoom, while recording movies)*5, 350× (Digital) F1.8 - F4.0 Focal length: f=1.9 mm - 57.0 mm (3/32 in. 2 1/4 in.) When converted to a 35 mm still camera For movies*4: 26.8 mm 804.0 mm (1 1/16 in. - 31 3/4 in.) (16:9) For photos: 26.8 mm - 804.0 mm (1 1/16 in. - 31 3/4 in.) (16:9) Color temperature: [Auto], [One Push], [Indoor], [Outdoor] Minimum illumination: 6 lx (lux) (in default setting, shutter speed 1/30 second (1080 60i compatible models) or 1/25 second (1080 50i compatible models)) 3 lx (lux) ([Low Lux] is set to [On], shutter speed 1/30 second (1080 60i compatible models) or 1/25 second (1080 50i compatible models)) *3 The unique image processing system of Sony's BIONZ-X allows still image resolution equivalent to the sizes described. *4 [SteadyShot] is set to [Standard] or [Off]. @@@@1 h. @@@× 2 3/8 in. @@@× 2 3/8 in. @@@× 5 1/8 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack inserted HDR-PJ410/PJ440: 59.0 mm × 59.5 mm × 128.0 mm (2 3/8 in. × 2 3/8 in. × 5 1/8 in.) (w/h/d) including the projecting parts 59.0 mm × 59.5 mm × 128.0 mm (2 3/8 in. × 2 3/8 in. × 5 1/8 in.) (w/h/d) including the projecting parts, and the supplied rechargeable battery pack inserted Mass (approx.) HDR-CX405/CX440: 190 g (6.7 oz) main unit only 215 g (7.6 oz) including the supplied rechargeable battery pack HDR-PJ410/PJ440: 210 g (7.4 oz) main unit only 235 g (8.3 oz) including the supplied rechargeable battery pack Wireless LAN (HDR-CX440/PJ410/PJ440) 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 3.6 V (battery pack), DC 5 V 1 500 mA (AC Adaptor) USB Charging: DC 5 V 800 mA Average power consumption: □ AC Adaptor AC-UUD11 Power requirements: AC 100 V 240 V, 50 Hz/60 Hz Power consumption: 11 W Output voltage: DC 5.0 V, 1 500 mA GB 30 □ Rechargeable battery pack NP-BX1 Used battery: Lithium-ion battery Maximum voltage: DC 4.2 V Nominal voltage: DC 3.6 V Maximum charge voltage: DC 4.2 V Maximum charge current: 1.89 A Capacity: 4.5 Wh (1 240 mAh) Design and specifications of your camcorder and accessories are subject to change without notice. HDR-PJ410/PJ440 Charging time (minutes) AC Adaptor (supplied) Computer Recording time (minutes) Continuous Typical 110 55 155 275 Playback time (minutes) 210 •The charging times are measured Estimated time of charging, recording, and playback using the supplied battery pack HDR-CX405/CX440 Charging time (minutes) AC Adaptor (supplied) Computer Recording time (minutes) Continuous Typical 115 55 155 275 when charging the camcorder at a room temperature of 25 °C (77 °F) without using the USB Connection support cable. •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 ([REC Mode]: [High Quality], [Dual Video REC]: [On]). •Typical recording time shows the time when you repeat recording start/stop, switching the [Shooting Mode], and zooming. Others □ Trademarks •AVCHD, AVCHD Progressive, AVCHD logotype and AVCHD Progressive logotype are trademarks of Panasonic Corporation and Sony Corporation. •XAVC S and are registered trademarks of 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. •Dolby and the double-D symbol are trademarks of Dolby Laboratories. Playback time (minutes) 210 GB 31 •The terms HDMI and HDMI HighDefinition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. •Microsoft, Windows, and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. •Mac and Mac OS are registered trademarks of Apple Inc. in the United States and other countries. •Intel, Intel Core, and Pentium are trademarks of Intel Corporation in the U.S. and/or other countries. •microSDXC logo is a trademark of SD-3C, LLC.

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You cannot use accessories via an A/V remote connector. □ PROJECTOR FOCUS lever (18) (HDR-PJ410/PJ440) □ Multi-selector (11) □ (View Images) button (16) □ PROJECTOR button (18) (HDR-PJ410/PJ440) □ LCD monitor □ Projector lens (HDR-PJ410/ PJ440) □ Grip belt □ Built-in USB Cable (9) GB 33 □ □ □ Tripod receptacle Battery cover (9) Battery release lever Battery pack (9) □ To fasten the grip belt GB 34 35 Others GB GB Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website. <http://www.sony.net/> © 2015 Sony Corporation Printed in China .



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