



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SONY HDR-PJ810E. You'll find the answers to all your questions on the SONY HDR-PJ810E 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-PJ810E
User guide SONY HDR-PJ810E
Operating instructions SONY HDR-PJ810E
Instructions for use SONY HDR-PJ810E
Instruction manual SONY HDR-PJ810E

The screenshot shows the cover of the Sony HDR-PJ810E Operating Guide. At the top left is the SONY logo, and at the top right is the phone number 4-489-506-11(2). The main title is "Digital HD Video Camera Recorder" with "Operating Guide" highlighted in a black box below it. 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, there are logos for AVCHD Progressive, HDMI, iShare, Memory Stick, and SD, along with the HANDYCAM logo and the model number HDR-PJ810/PJ810E/PJ820/PJ820E.



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Manual abstract:

@@ Model No. HDR Serial 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. **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. • 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. GB 3 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. 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. □ 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). 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. **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. For Customers in the U.S.A. □ RECYCLING LITHIUM-ION BATTERIES Lithium-Ion batteries are recyclable. You can help preserve our environment by returning your used rechargeable batteries GB 4 □ Regulatory Information Declaration of Conformity Trade Name: SONY Model No.: HDR-PJ810 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. This equipment must not be colocated or operated in conjunction with any other antenna or transmitter. 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.



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⚠ CAUTION You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment. ⚠ For the State of California, USA only Perchlorate Material – special handling may apply, See 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 For Customers in Europe Hereby, Sony Corporation, declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive GB 5 1999/5/EC. For details, please access the following URL: <http://www.compliance.sony.de/> ⚠ 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 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. ⚠ 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. ⚠ 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 GB 6 Learning more about the camcorder (Help Guide) Help Guide is an on-line manual. Refer to it for in-depth instructions on the many functions of the camcorder. Table of Contents Read this first

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20 2 Select your country or region. for the 3 Search of your model name camcorder within the support page. • Check the model name on the bottom of your camcorder. Customizing your camcorder

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.. 33 GB 7 Getting started Supplied items The numbers in () indicate the supplied quantity. • Camcorder (1) • AC Adaptor (1) • Step Down Ring (1) The shape of the AC Adaptor differs depending on the countries/ regions. iPhone, 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.

@@@@@@@transfer, and add , and then select □. @@@@□ Input the password displayed on the camcorder (first time only). □ Confirm that the SSID displayed on the camcorder is selected.

@ perform in the same way as in step 3 in “Connection without using NFC” (page 21). 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. Notes • Depending on local electrical interference or the smartphone’s capabilities, the live view images may not be displayed smoothly. GB 22 Saving movies and photos to your computer via Wi-Fi Connect your computer to a wireless access point or wireless broadband router in advance. If you know the SSID and the password of your wireless access point □ On your camcorder, select □ [Setup] □ [Connection] □ [Access point settings]. □ Select the access point you want to register, enter the password, then select . 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. Saving images 3 If your computer is not started, turn on the computer. 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. 4 Start sending images from the camcorder to the computer. □ Press the (View Images) button on your camcorder. □ Select □ [Edit/ Copy] □ [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. If the wireless access point has a WPS button □ On your camcorder, select □ [Setup] □ [Connection] □ [WPS Push]. □ Press the WPS button on the access point you want to register.

GB 23 Customizing your camcorder Using the menus Menu lists Shooting Mode Movie Photo Smth Slw REC Golf Shot Camera/Mic 1 Select . 2 Select a category. Manual Settings White Balance Spot Meter/Fcs Spot Meter Spot Focus Exposure Focus 3 Select a desired menu item.



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IRIS Shutter Speed AGC Limit AE Shift White Balance Shift Low Lux Camera Settings Scene Selection Picture Effect Cinematone Fader Self-Timer SteadyShot SteadyShot Digital Zoom Conversion Lens Auto Back Light Dial Setting Scroll the menu items up or down. • Select to finish setting the menu or to return to the previous menu screen.

GB 24 Face Face Detection Smile Shutter Smile Sensitivity Flash*1 Flash Flash Level Red Eye Reduction Microphone Premium CloserVoice My Voice Canceling Blt-in Zoom Mic Auto Wind NR Audio Mode Audio Rec Level Shooting Assist Ctrl with Smartphone My Button Focus Magnifier Grid Line Display Setting Zebra Peaking Audio Level Display Image Quality/Size REC Mode Frame Rate Dual Video REC 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 Select Media Info Format Repair Img. DB F. File Number Playback Settings Data Code Volume Motion Interval ADJ 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 GB 25 Customizing your camcorder USB LUN Setting General Settings Beep Monitor Brightness Auto Keystone ADJ Airplane Mode REC Lamp Remote Ctrl Language Setting 24p Mode*4 Calibration Battery Info Power Save Initialize Demo Mode Clock Settings Date & Time Setting Area Setting *1 You can set this item when you use a flash (sold separately). You can set this item when you use an external media device (sold separately). *3 HDR-PJ810/PJ820 *4 HDR-PJ810E/PJ820E *2 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 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 27 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. 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. 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 (page 26). 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 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]. GB 28 Specifications System Signal format: NTSC color, EIA standards (HDR-PJ810/PJ820) PAL color, CCIR standards (HDR-PJ810E/PJ820E) HD TV Movie recording format: AVCHD (AVCHD format Ver.2.0 compatible): Video: MPEG-4 AVC/H.

264 Audio: Dolby Digital 2ch/5.1ch Dolby Digital 5.1 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 Recording media (Movie/Photo): Internal memory HDR-PJ810/PJ810E: 32 GB HDR-PJ820/PJ820E: 64 GB Memory Stick PRO Duo media SD card (Class 4 or faster) The capacity that a user can use (Approx.) HDR-PJ810/PJ810E: 31.1 GB*2 HDR-PJ820/PJ820E: 62.4 GB*2 *2 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. Viewfinder: Electronic viewfinder (color) Image device: 4.6 mm (1/3.

95 type) CMOS Sensor Recording pixels (photo, 16:9): Max. 24.



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5 mega pixels (6 592 × 3 712)*3 Gross: Approx. 6 590 000 pixels Effective (movie, 16:9)*4: Approx. 6 140 000 pixels Effective (photo, 16:9): Approx. 6 140 000 pixels Effective (photo, 4:3): Approx. 4 600 000 pixels Lens: G Lens 12× (Optical)*4, 24× (Clear Image Zoom, while recording movies)*5, 160× (Digital) Filter diameter: 46 mm (1 13/16 in.) 37 mm (1 1/2 in.) (When attaching the Step Down Ring) F1.8 - F3.
4 Focal length: f= 2.9 mm - 34.8 mm (1/8 in. - 1 3/8 in.) When converted to a 35 mm still camera For movies*4: 26.8 mm - 321.6 mm (1 1/16 in. - 12 3/4 in.) (16:9) For photos: 26.8 mm - 321.6 mm (1 1/16 in. - 12 3/4 in.) (16:9) Color temperature: [Auto], [One Push], [Indoor], [Outdoor] Minimum illumination: 6 lx (lux) (in default setting, shutter speed 1/60 second (HDR-PJ810/PJ820) or 1/50 second (HDR-PJ810E/PJ820E)) 3 lx (lux) ([Low Lux] is set to [On], shutter speed 1/30 second (HDR-PJ810/PJ820) or Others GB 29 1/25 second (HDR-PJ810E/ PJ820E)) *3 The unique pixel array of Sony's ClearVid and the image processing system (BIONZ-X) allow still image resolution equivalent to the sizes described. *4 [SteadyShot] is set to [Standard] or [Off]. *5 [SteadyShot] is set to [Active]. Continuous projection time (when using the supplied battery pack): Approx. 2 h. 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 Input/Output connectors HDMI OUT jack: HDMI micro connector PROJECTOR IN jack: HDMI micro connector MIC input jack: Stereo minijack (□3).

5 mm) Headphone jack: Stereo minijack (□3.5 mm) USB jack: Type A (Built-in USB) Multi/Micro USB Terminal* * Supports Micro USB compatible devices. USB connection is only for output (HDR-PJ810E/PJ820E). General Power requirements: DC 6.8 V/7.2 V (battery pack), DC 5 V 1 500 mA (AC Adaptor), DC 8.4 V (DC IN jack) USB Charging: DC 5 V 1 500 mA Average power consumption: During camera recording using the viewfinder at normal brightness: 2.9 W During camera recording using LCD monitor at normal brightness: 3.1 W Operating temperature: 0 °C to 40 °C (32 °F to 104 °F) Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F) Dimensions (approx.): 67.

5 mm × 72.5 mm × 134 mm (2 3/4 in. × 2 7/8 in. @ @ × 2 7/8 in. @ @ @ @ @ @ • Typical recording time shows the time when you repeat recording start/stop, switching the [Shooting Mode], and zooming.

• The upper figure of each recording time shows the time when recording with the LCD monitor open, and the lower figure shows the time when recording with the viewfinder GB 31 without opening the LCD monitor. □ 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. • 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. • 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. • SDXC logo is a trademark of SD3C, LLC. • Android, Google Play are trademarks of Google Inc. • iOS is a registered trademark or trademark of Cisco Systems, Inc.

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Others □ Video light □ N mark (21) □ □ □ □ □ PROJECTOR IN jack (17) □ Memory card access lamp (12) □ Memory card slot (12) □ HDMI OUT jack □ / (Shooting Mode) button (14) □ (My Voice Canceling) button □ PROJECTOR button (17) □ (View Images) button (15) □ LIGHT (Video Light) button □ POWER button Suppresses the voice of the person recording the movie. NFC: Near Field Communication Lens (G lens) Remote sensor Camera recording lamp MANUAL button MANUAL dial Manual functions can be assigned to the button and the dial. GB 33 □ To fasten the grip belt Wireless Remote Commander □ Power zoom lever (13, 14) □ PHOTO button (14) □ Viewfinder lens adjustment lever □ Eyecup □ Viewfinder □ POWER/CHG (charge) lamp (9) □ START/STOP button (13) □ Battery pack (9) □ DC IN jack □ (microphone) jack (PLUG IN POWER) □ □ (headphones) jack □ Grip belt □ Loop for a shoulder belt □ Built-in USB Cable (9) □ Multi/Micro USB Terminal Supports Micro USB compatible devices. If you use an adaptor cable (sold separately), you can also use accessories via an A/V remote connector. □ □ □ □ □ □ □ □ □ □ GB □ Tripod receptacle □ BATT (battery) release lever 34 DATA CODE button PHOTO button SCAN/SLOW buttons □/□ (Previous/Next) buttons PLAY button STOP button DISPLAY button Transmitter START/STOP button Power zoom buttons PAUSE button VISUAL INDEX button □/□/□/□/ENTER buttons • Remove the insulation sheet before using the Wireless Remote Commander.

Insulation sheet Others GB 35 GB Additional information on this product and answers to frequently asked questions can be found at our Customer Support Website. <http://www.sony.net/> © 2014 Sony Corporation Printed in China .



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