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You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON COOLPIX P600. You'll find the answers to all your questions on the NIKON COOLPIX P600 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON COOLPIX P600
User guide NIKON COOLPIX P600
Operating instructions NIKON COOLPIX P600
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Nikon

DIGITAL CAMERA

COOLPIX P600
Reference Manual



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Manual abstract:

These icons indicate other pages containing relevant information; E: "Reference Section", F: "Technical Notes and Index." • SD and SDHC/SDXC memory cards are referred to as "memory cards" in this manual. • The setting at the time of purchase is referred to as the "default setting." • The names of menu items displayed in the camera monitor, and the names of buttons or messages displayed on a computer monitor appear in bold. • In this manual, images are sometimes omitted from monitor display samples so that monitor indicators can be more clearly shown. • Illustrations and monitor content shown in this manual may differ from the actual product. iii Information and Precautions Life-Long Learning As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually updated information is available online at the following sites: • For users in the U.S.A.: <http://www.nikonusa.com/> • For users in Europe and Africa: <http://www.europe-nikon.com/support/> • For users in Asia, Oceania, and the Middle East: <http://www.nikon-asia.com/>

Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. Visit the site below for contact information: <http://imaging.nikon.com/> Introduction Use Only Nikon Brand Electronic Accessories Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry.

Only Nikon brand electronic accessories (including battery chargers, batteries, charging AC adapter, AC adapters and cables) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry. **THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY.** The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking. For more information about Nikon brand accessories, contact a local authorized Nikon dealer. Holographic seal: Identifies this device as an authentic Nikon product. Before Taking Important Pictures Before taking pictures on important occasions (such as at weddings or before taking the camera on a trip), take a test shot to ensure that the camera is functioning normally. Nikon will not be held liable for damages or lost profits that may result from product malfunction. iv About the Manuals • No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission. • Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice. • Nikon will not be held liable for any damages resulting from the use of this product.

• While every effort was made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately). Introduction Notice Concerning Prohibition of Copying or Reproduction Note that simply being in possession of material that was digitally copied or reproduced by means of a scanner, digital camera or other device may be punishable by law. • Items prohibited by law from being copied or reproduced Do not copy or reproduce paper money, coins, securities, government bonds or local government bonds, even if such copies or reproductions are stamped "Sample." The copying or reproduction of paper money, coins, or securities which are circulated in a foreign country is prohibited. Unless the prior permission of the government was obtained, the copying or reproduction of unused postage stamps or post cards issued by the government is prohibited. The copying or reproduction of stamps issued by the government and of certified documents stipulated by law is prohibited. • Cautions on certain copies and reproductions The government has issued cautions on copies or reproductions of securities issued by private companies (shares, bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except when a minimum of necessary copies are to be provided for business use by a company. Also, do not copy or reproduce passports issued by the government, licenses issued by public agencies and private groups, ID cards and tickets, such as passes and meal coupons. • Comply with copyright notices The copying or reproduction of copyrighted creative works such as books, music, paintings, woodcut prints, maps, drawings, movies, and photographs is governed by national and international copyright laws.

Do not use this product for the purpose of making illegal copies or to infringe copyright laws. v Disposing of Data Storage Devices Please note that deleting images or formatting data storage devices such as memory cards or built-in camera memory does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility. Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky).

Be sure to also replace any pictures selected for the Select an image option in the Welcome screen setting (A95). Care should be taken to avoid injury or damage to property when physically destroying data storage devices. You can clear the Wi-Fi settings using Restore default settings in the Wi-Fi options menu (E58). Introduction vi For Your Safety To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. Keep these safety instructions where all those who use the product will read them.

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol: This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury. Introduction WARNINGS Turn off in the event of malfunction Should you notice smoke or an unusual smell coming from the camera or charging AC adapter, unplug the charging AC adapter and remove the battery immediately, taking care to avoid burns.



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Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection. Do not disassemble Touching the internal parts of the camera or charging AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or charging AC adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery. Do not use the camera or charging AC adapter in the presence of flammable gas Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire. Handle the camera strap with care Never place the strap around the neck of an infant or child. Keep out of reach of children Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths.

Do not remain in contact with the camera, charging AC adapter, or AC adapter for extended periods while the devices are on or in use Parts of the devices become hot. Leaving the devices in direct contact with the skin for extended periods may result in low-temperature burns. vii Do not leave the product where it will be exposed to extremely high temperatures, such as in an enclosed automobile or in direct sunlight Failure to observe this precaution could cause damage or fire. Use the appropriate power supply (battery, charging AC adapter, AC adapter, USB cable) Using a power supply other than those provided or sold by Nikon could result in damage or malfunction. Observe caution when handling the battery The battery may leak, overheat, or explode if improperly handled. Observe the following precautions when handling the battery for use in this product: • Before replacing the battery, turn the product off. If you are using the charging AC adapter/AC adapter, be sure it is unplugged. • Use only a Rechargeable Li-ion Battery EN-EL23 (included). Charge the battery by using a camera that supports battery charging. To perform this operation, use the Charging AC Adapter EH-71P (included) and USB Cable UC-E21 (included).

The Battery Charger MH-67P (available separately) is also available to charge the battery without using a camera. • When inserting the battery, do not attempt to insert it upside down or backwards. • Do not short or disassemble the battery or attempt to remove or •••••break the battery insulation or casing. Do not expose the battery to flame or to excessive heat. Do not immerse in or expose to water. Put the battery in a plastic bag, etc. to insulate the terminal before transporting it. Do not transport or store with metal objects such as necklaces or hairpins. The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains. Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation. If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water. Observe the following precautions when handling the charging AC adapter Keep dry. Failure to observe this precaution could result in fire or electric shock. Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire. Do not handle the plug or go near the charging AC adapter during lightning storms. Failure to observe this precaution could result in electric shock. Do not damage, modify, forcibly tug or bend the USB cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the Introduction ••••viii wires become exposed, take it to a Nikon-authorized service representative for inspection.

Failure to observe these precautions could result in fire or electric shock. • Do not handle the plug or charging AC adapter with wet hands. Failure to observe this precaution could result in electric shock. • Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire. Use appropriate cables When connecting cables to the input and output jacks, use only the collected separately. The following apply only to users in European countries: • This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste. • Separate collection and recycling helps conserve natural resources and prevent negative consequences for human health and the environment that might result from incorrect disposal. • For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately. The following apply only to users in European countries: • All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point. Do not dispose of as household waste. • For more information, contact the retailer or the local authorities in charge of waste management. xi Wi-Fi (Wireless LAN Network) This product is controlled by the United States Export Administration Regulations, and you are required to obtain permission from the United States government if you export or re-export this product to any country to which the United States embargoes goods.

The following countries were subject to embargo: Cuba, Iran, North Korea, Sudan, and Syria. Since the target countries are subject to change, please contact the United States Department of Commerce for the latest information. Restrictions on Wireless Devices The wireless transceiver included in this product conforms to wireless regulations in the country of sale and is not for use in other countries (products purchased in the EU or EFTA can be used anywhere within the EU and EFTA). Nikon does not accept liability for use in other countries. Users who are unsure as to the original country of sale should consult with their local Nikon service center or Nikon-authorized service representative.

This restriction applies to wireless operation only and not to any other use of the product. Notice for Customers in the U.S.A. and Canada Federal Communications Commission (FCC) and Industry of Canada (IC) Declaration of Conformity This device complies with Part 15 of FCC Rules and Industry Canada licenceexempt 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 this device. FCC/IC RF Exposure Statement This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.



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The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. COOLPIX P600, which is equipped with a LBWA1ZZYM6 (FCC ID:VPYLBYM / IC ID:772C-LBYM) Wireless LAN Module, has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment Introduction xii 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. Please refer to the SAR test report that was uploaded to FCC website. Declaration of Conformity (Europe) Hereby, Nikon Corporation, declares that COOLPIX P600 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/ EC. The declaration of conformity may be consulted at http://imaging.nikon.com/support/pdf/DoC_P600.pdf.

xiii Introduction Precautions when Using Radio Transmissions Always keep in mind that radio transmission or reception of data is subject to interception by third parties. Note that Nikon is not responsible for data or information leaks that may occur during data transfer. Personal Information Management and Disclaimer • User information registered and configured on the product, including wireless LAN connection settings and other personal information, is susceptible to alteration and loss resulting from operational error, static electricity, accident, malfunction, repair or other handling. Always keep separate copies of important information. Nikon is not responsible for any direct or indirect damages or lost profits resulting from alteration or loss of content that is not attributable to Nikon.

• Before discarding this product or transferring it to another owner, perform Reset all in the setup menu (A96) to delete all user information registered and configured with the product, including Wi-Fi options and other personal information. Introduction xiv Table of Contents Introduction

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.. 3, 5, 12 Rotary multi selector (multi selector)*...

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.. 3, 5, 59 1 2 3 4 5 6 7 8 9 11 c (playback) button ...

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.... 36 12 13 l (delete) button

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..... 37, 94 14 15 16 Tripod socket 17 Battery-chamber/memory card slot cover

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..... 20, 24 * Also referred to as the "multi selector" in this manual. 2 Principle Functions of the Controls For Shooting Control Main Function A Change the shooting mode. Mode dial 30 Parts of the Camera and Main Functions Move toward g (i) (telephoto) to zoom in closer to the subject, and move toward f (h) (wide-angle) to zoom out and view a larger area.

Zoom control • While the shooting screen is displayed: Display the following setting screens by pressing: - Up (H): m (flash mode) - Left (J): n (self-timer/smile timer) - Down (I): D (focus mode) - Right (K): o (exposure compensation) • When the shooting mode is l or m: Rotate the multi selector to set the aperture value. • While the setting screen is displayed: Select an item using HIJK or by rotating the multi selector; apply the selection by pressing the k button. • When the shooting mode is j: Set the flexible program. • When the shooting mode is k or m: Set the shutter speed. • While the setting screen is displayed: Select an item.

33 59 52, 54 Multi selector 12 52, 54 52, 54 12 Command dial Display and hide the menu. d (menu) button 12, 72, 86, 93, 95 3 Control Main Function When pressed halfway (i.e., if you stop pressing when you feel resistance slightly): Set focus and exposure. When pressed all the way (i.e., if you press the button all the way down): Release the shutter. A 34, 35 Shutter-release button Parts of the Camera and Main Functions Start and stop movie recording. b (e movie-record) button When the shooting mode is j, k, l, m or M: Display or close the setting menus such as Continuous or Vibration reduction. 89 75 w (function) button Use the function assigned in Assign side zoom control. Side zoom control 33, 95 Switch between the monitor and viewfinder. 9 x (monitor) button Switch the information displayed in the monitor. 10 s (display) button Play back images. c (playback) button 36 Delete the last image that was saved. l (delete) button 37 4 For Playback Control Main Function • When the camera is turned off, press and hold this button to turn the camera on in playback mode.

• Return to shooting mode. • Move toward g (i) to zoom in on the image, and move toward f (h) to display images as thumbnails or the calendar. • Adjust the volume for voice memo and movie playback. • While the playback screen is displayed: Change the displayed image using up (H), left (J), down (I), right (K), or by rotating the multi selector. • While the setting screen is displayed: Select an item using HIJK or by rotating the multi selector. • While an enlarged image is displayed: Move the display area. • Display individual images of a sequence in full-frame playback mode. • Scroll an image shot with Easy panorama. • Play back movies. • Switch from thumbnail playback or zoomed image display to full-frame playback.

• While the setting screen is displayed, apply the selection. Switch the magnification of an enlarged image. A 36 c (playback) button 36 84, 85 Parts of the

Camera and Main Functions 86, 93 Zoom control 36 12 Multi selector 84 87, E5 47, E4 93 84, 85 k (apply selection) button 12 84 Command dial Display and hide the menu. d (menu) button 12, 86 5 Control Main Function A Delete images. l (delete) button 37 Switch between the monitor and viewfinder. 9 Parts of the Camera and Main Functions x (monitor) button Switch the information displayed in the monitor. s (display) button 10 Shutter-release button Return to shooting mode. – b (e movie-record) button 6 Attaching the Camera Strap and Lens Cap Attach the Lens Cap LC-CP29 to the strap, and then attach the strap to the camera. Parts of the Camera and Main Functions Attach the strap at two places. B Lens Cap • At times when you are not shooting images, attach the lens cap to the lens to protect it.

- Do not attach anything other than the lens cap to the lens. 7 Opening and Adjusting the Angle of the Monitor The orientation and tilt of the monitor can be changed. This is useful when shooting with the camera in a high or a low position, or when taking selfportraits. For normal shooting, fold the monitor against the camera body with the screen facing out (3). Parts of the Camera and Main Functions When you are not using or carrying the camera, fold the monitor against the camera body with the screen facing inward to prevent scratches or contamination. B Notes About the Monitor When moving the monitor, do not apply excessive force and turn slowly within the monitor's adjustable range so that the connection will not be damaged.



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8 Switching Between the Monitor and Viewfinder (x Button) You can use the viewfinder when bright light under the open sky makes it difficult to see the monitor. Each press of the x button switches the display between the monitor and viewfinder. •When you fold the monitor against the camera body with the screen facing inward, the display in the monitor is switched to the viewfinder. Viewfinder x (monitor) button Parts of the Camera and Main Functions Diopter Adjustment of the Viewfinder When the image in the viewfinder is difficult to see, adjust by rotating the diopter adjustment control while looking through the viewfinder.

•Take care not to scratch your eye with Diopter adjustment control your fingertips or nails. B Notes About Checking and Adjusting Image Colors Use the monitor on the back of the camera because the monitor has higher color reproducibility than the viewfinder. 9 Switching the Monitor Display (s Button) To switch the information displayed in the monitor during shooting and playback, press the s (display) button. For Shooting Parts of the Camera and Main Functions 1/250 F5.6 25m 0s 840 1/250 F5.6 25m 0s 840 Show information Display the image and the shooting information. Movie frame Display the range of a movie in a frame. Hide information Display the image only. C Histogram and Framing Grid Displays for Shooting A histogram or framing grid can be displayed (A16) using Monitor settings in the setup menu (A95). 10 For Playback 4/132 4/132 100 + 1.

0 0112. JPG 15/05/2014 15:30 1/250 F5.6 Show information Display the image and photo information. Tone level information* (except movies) Display a histogram, tone level and shooting information (A18). Hide information Display the image only.

11 Parts of the Camera and Main Functions Using Menus (the d Button) Use the multi selector and k button to navigate the menus. 1 Parts of the Camera and Main Functions Press the d button. •The menu that matches the status of the camera, such as shooting or playback menu, is displayed. Unavailable menu items are displayed in gray and cannot be selected. Shooting menu Image quality Image size Picture Control Custom Picture Control White balance Metering Continuous 1/250 F5.

6 25m 0s 840 2 Use the multi selector to select a menu item. •HI or rotation: Select an item above or below. •JK: Select an item on the left or right, or move between menu levels. •k: Apply a selection. Pressing K also applies a selection. •See A13 for more information on how to switch tabs. Apply selection 3 C After completing the settings, press the d button or shutter-release button. •Press the shutter-release button to display the shooting screen. Notes About the Command Dial Operation When a Menu is Displayed Rotating the command dial when a menu is displayed allows you to select an item. 12 Switching Among Menu Tabs To display a different menu, such as the setup menu (A95), use the multi selector to switch to another tab.

Shooting menu Image quality Image size Picture Control Custom Picture Control White balance Metering Continuous Shooting menu Image quality Image size Picture Control Custom Picture Control White balance Metering Continuous Set up Welcome screen Time zone and date Monitor settings Print date Vibration reduction Motion detection AF assist Parts of the Camera and Main Functions Use J to move to the tabs. Use HI to select a tab, and press the k button or K to apply the selection. Tab Types For Shooting Shooting menu Image quality Image size Picture Control Custom Picture Control White balance Metering Continuous For Playback Playback menu Quick retouch D-Lighting Skin softening Filter effects Print order Slide show Protect j tab: Displays the settings available for the current shooting mode (A31). Depending on the current shooting mode, the tab icon that is displayed will be different. e tab: Displays movie recording settings. q tab: Displays the settings for Wi-Fi options. c tab: Displays the settings available for the playback mode. z tab: Displays the setup menu, where you can change general settings. 13 The Monitor The information that is displayed in the monitor during shooting and playback changes depending on the camera's settings and state of use. Press the s button to show or hide the information in the monitor (A10).

For Shooting 37 2 10 36 35 33 HDR1 HDR2 HDR3 120 3 2 7 9 10 Parts of the Camera and Main Functions 34 32 1.0 0.7 0.3 60 5 1 10 120 8 11 12 13 +1.0

0 10m 0s 999 4 1000mm 1000 mm 6 31 30 29 28 3200 1/250 F5.6 16 17 18 14 22 27 26 25 24 23 21 20 999 9999 19 15 14 1 2 3 4 5 6 7 8 Shooting mode....

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.....30, 31 Flash mode .
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.....60 Focus mode.
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|72 30 | <i>COOLPIX Picture Control .</i> |
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|72 31 | <i>Active D-Lighting.....</i> |
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|73 | <i>Continuous shooting 32 mode</i> |
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| 73 35 | <i>Hand-held/tripod .</i> |
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| 41 36 | <i>Multiple exposure</i> |
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| 73 | <i>Self-timer indicator</i> |
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...63 37 Smile timer..

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...64 Pet portrait auto release

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.48 Parts of the Camera and Main Functions 9 Image quality.....

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..72 10 Image size.....

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72 11 Easy panorama

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.....47 12 Noise reduction filter ...

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.73 13 Motion detection icon.....

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..95 14 Vibration reduction icon...

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.....95 15 Exposure indicator .

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.....54 16 Flash exp. comp.

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....73 17 Exposure compensation value....69 Movie recording time 18 remaining..

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....89, 90 Number of exposures remaining 19 (still images).

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.26, E21 20 Internal memory indicator....

.....26 21 Aperture value..

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.....52 22 Shutter speed....

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.....52 23 ISO sensitivity

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.....73 24 Battery level indicator

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.....26 25 "Date not set" indicator..

.....28, 95 26 Print date.

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.....95 15 1/250 F5.

6 Parts of the Camera and Main Functions 1/250 F5.6 1 2 3 4 5 6 10m 0s 9999 1/250 F5.6 10m 0s 9999 7 1 2 3 4 8 5 6 7 8 9 9 Spot metering area.....

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73 Center-weighted area.....

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..73 View/hide histograms ...

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..... 10, 95, E63 Framing border (Moon or Birdwatching scene mode, or snapback zoom).

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..... 49, E68 View/hide framing grid ...

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.... 10, 95, E63 Focus area (target finding AF) .

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73, 75, 80 Focus area (center/manual)

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40, 50, 73, 75, 83 Focus area (face detection, pet detection)

.....48, 64, 73, 75, 81 Focus area (subject tracking)

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... 73, 75, E40 16 For Playback Full-frame playback (A36) 1 2 3 4 5 6 7 8 9 999/999 10 999/ 999 9999/9999 1m 0s 1m 0s a b 11 12 Parts of the Camera and Main Functions 23 22 21 a 1 2 3 4 5 6 7 8 9 0112.JPG 15/05/2014 15:30 14 15 18 13 20 b 19 16 17 13 Volume indicator.....

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..... 72 15 Image size.

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..5, 47 ,E4 18 Sequence playback guide

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..... 86 D-Lighting icon

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..... 86 Quick retouch icon....

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..... 86 Internal memory indicator .

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25 (a) Current image number/ total number of images 10 (b) Movie length 11 Small picture icon

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86 12 Crop icon.....

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..... 84 17 Tone level information display1 (A11) 4/132 1 2 4 100 + 1.

0 3 5 11 10 9 1 2 3 4 5 1 Parts of the Camera and Main Functions 1/250 F5.6 8 7 6 7 8 9 6 Image quality/Image size

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.... 72 Aperture value

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. 52 Shutter speed.....

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52 Shooting mode.....

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31 Current image number/ total number of images ISO sensitivity.....

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..... 73 Exposure compensation value... 69 White balance ..

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..... 72 COOLPIX Picture Control....

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. 72 2 10 Tone level 3 11 Histogram You can check for loss of contrast detail in highlights and shadows from the histogram that is displayed, or the flashing display for each tone level. These provide guidelines when adjusting the image brightness with functions such as exposure compensation. 2 The tone level indicates the brightness level. When the tone level to check is selected using the multi selector JK, the area of the image that corresponds to the selected tone level flashes. 3 A histogram is a graph showing the distribution of tones in the image. The horizontal axis corresponds to pixel brightness, with dark tones to the left and bright tones to the right. The vertical axis shows the number of pixels. 18 19 The Basics of Shooting and Playback Preparation 1 Insert the Battery 1 The Basics of Shooting and Playback Open the battery-chamber/ memory card slot cover. 2 Insert the battery.

• Push the orange battery latch in the direction indicated by the arrow (1), and fully insert the battery (2). • The battery locks into place when inserted correctly. Battery latch B Be Careful to Insert the Battery in Correct Direction Inserting the battery upside down or backwards could damage the camera. 3 Close the battery-chamber/ memory card slot cover. 20 Removing the Battery Turn the camera off and make sure that the power-on lamp and the monitor have turned off, and then open the battery-chamber/memory card slot cover. Move the battery latch in the direction indicated by the arrow (1) to eject the battery (2). B High Temperature Caution The camera, battery, and memory card may be hot immediately after using the camera. The Basics of Shooting and Playback 21 Preparation 2 Charge the Battery 1 Prepare the included charging AC adapter. If a plug adapter* is included with your camera, attach the plug adapter to the plug on the charging AC adapter. Push the plug adapter firmly until it is securely held in place. Once the two are connected, attempting to forcibly remove the plug adapter could damage the product. * The shape of the plug adapter varies according to the country or region in which the camera was purchased. This step can be omitted if the plug adapter comes permanently bonded to the charging AC adapter. The Basics of Shooting and Playback 2 Make sure the battery is inserted in the camera, and then connect the camera to the charging AC adapter in order of 1 to 3. • Keep the camera turned off.

• Make sure that the plugs are properly oriented. Do not insert or remove the plugs at an angle when connecting or disconnecting them. B Notes Do not use a USB cable other than the UC-E21. Using a USB cable other than the UC-E21 could result in overheating, fire or electric shock. Electrical outlet Charge lamp USB cable (included) • The charge lamp slowly flashes green to indicate that the battery is charging.

22 The charge lamp Flashes slowly (green) Off The battery is charging. Description When charging is complete, the charge lamp stops flashing green and turns off. About 3 hours are required to charge a fully exhausted battery. • The ambient temperature is not suited to charging. Charge the battery indoors with an ambient temperature of 5°C to 35°C (41°F to 95°F). • The USB cable or charging AC adapter is not properly connected, or there is a problem with the battery. Disconnect the USB cable or unplug the charging AC adapter and correctly connect it again, or change the battery. Flashes quickly (green) The Basics of Shooting and Playback 3 B Disconnect the charging AC adapter from the electrical outlet and then disconnect the USB cable. Notes About Charging Do not, under any circumstances, use another make or model of AC adapter other than Charging AC Adapter EH-71P, and do not use a commercially available USB-AC adapter or a battery charger for a mobile phone. Failure to observe this precaution could result in overheating or in damage to the camera.

C Turning On the Camera While the Battery is Charging The camera does not turn on while the charging AC adapter is connected to it even when you press the power switch. Press and hold the c (playback) button to turn on the camera in playback mode and play back images. Shooting is not possible. C Charging Using a Computer or Battery Charger • You can also charge the battery by connecting the camera to a computer (A96, 100). • You can use the Battery Charger MH-67P (available separately; E82) to charge the battery without using the camera. 23 Preparation 3 Insert a Memory Card 1 Turn off the camera and open the battery-chamber/memory card slot cover. 2 The Basics of Shooting and Playback Insert the memory card. • Slide the memory card in until it clicks into place. B Memory card slot Be Careful to Insert the Memory Card in Correct Direction Inserting the memory card upside down or backwards could damage the camera and the memory card. 3 Close the battery-chamber/ memory card slot cover.

B Formatting Memory Cards The first time you insert a memory card that has been used in another device into this camera, make sure to format it with this camera. Insert the card into the camera, press the d button, and select Format card in the setup menu. 24 Removing Memory Cards Turn the camera off and make sure that the power-on lamp and the monitor have turned off, and then open the battery-chamber/ memory card slot cover. Gently push the memory card into the camera (1) to partially eject the card (2). B High Temperature Caution The camera, battery, and memory card may be hot immediately after using the camera.

Internal Memory and Memory Cards Camera data, including images and movies, can be saved either in the camera's internal memory or on a memory card. To use the camera's internal memory, first remove the memory card. The Basics of Shooting and Playback Approved Memory Cards The following Secure Digital (SD) memory cards have been tested and approved for use in this camera. • Memory cards with an SD Speed Class rating of 6 or faster are recommended for recording movies. When using a memory card with a lower Speed Class rating, movie recording may stop unexpectedly.

SD memory cards SDHC memory cards 2 SanDisk TOSHIBA Panasonic Lexar 1 SDXC memory cards 3 2 GB 1 - 4 GB, 8 GB, 16 GB, 32 GB 64 GB, 128 GB 4 GB, 8 GB, 16 GB, 32 GB 64 GB 4 GB, 8 GB, 16 GB, 32 GB 64 GB, 128 GB If the memory card will be used with a card reader or similar device, make sure that the device supports 2 GB cards.



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2 SDHC-compliant. If the memory card will be used with a card reader or similar device, make sure that the device supports SDHC. 3 SDXC-compliant. If the memory card will be used with a card reader or similar device, make sure that the device supports SDXC. • Contact the manufacturer for details on the above cards. We cannot guarantee camera performance when using memory cards made by other manufacturers. 25 Step 1 Turn the Camera On 1 2 The Basics of Shooting and Playback Open the monitor and remove the lens cap. • See “Opening and Adjusting the Angle of the Monitor“ (A8) for more information. • See “Attaching the Camera Strap and Lens Cap“ (A7) for more information.

Press the power switch. • If you are turning the camera on for the first time, see “Setting the Display Language, Date, and Time” (A28). • The monitor turns on. • To turn the camera off, press the power switch again. 3 Check the battery level indicator and the number of exposures remaining. Battery level indicator Battery level indicator Display b B N Battery exhausted. 1/250 F5.6 25m 0s 840 Number of exposures remaining Description The battery level is high. The battery level is low. The camera cannot capture images.

Recharge the battery. Number of Exposures Remaining The number of images that can be taken is displayed. • C is displayed when no memory card is inserted in the camera, and images are saved in the internal memory. 26 C The Auto Off Function Flashes No operations performed No operations performed 1/250 F5.6 25m 0s 840 3 min Camera enters standby mode.

Camera turns off. The Basics of Shooting and Playback • The time that elapses before the camera enters standby mode is about 1 minute. The time can be changed using the Auto off setting in the setup menu (A95). • While the camera is in standby mode, the monitor turns back on if you perform any of the following operations: - Press the power switch, shutter-release button, c button, or b (e movierecord) button. - Rotate the mode dial.

C Monitor Display Press the s button to switch between showing and hiding the photo information or shooting information that is displayed in the monitor (A10). 27 Setting the Display Language, Date, and Time When the camera is turned on for the first time, the language-selection screen and the date and time setting screen for the camera clock are displayed. • If you exit without setting the date and time, O will flash when the shooting screen is displayed. 1 Use the multi selector HI to select the desired language and press the k button. Language Български Čeština Dansk Deutsch English Español Cancel The Basics of Shooting and Playback 2 Select Yes and press the k button. Time zone and date Choose time zone and set date and time? Yes No Cancel 3 Select your home time zone and press the k button. London Casablanca • To enable daylight saving time, press H. When the daylight saving time Back function is enabled, W is displayed above the map. To turn off the daylight saving time function, press I. 4 Select the date format and press the k button.

Date format Year/Month/Day Month/Day/Year Day/Month/Year 28 5 Set the date and time, and press the k button. • Select a field: Press JK (changes between D, M, Y, h, and m). • Edit the date and time: Press HI. Date and time can also be changed by rotating the multi selector or command dial. • Confirm the setting: Select the m field and press the k button. Date and time D M Y h m 15 05 2014 15 10 Edit 6 Select Yes and press the k button. • When settings are finished, the lens extends and the camera switches to shooting mode. Date and time 15/05/2014 15:10 OK? Yes No The Basics of Shooting and Playback C Changing the Language Setting and the Date and Time Setting • You can change these settings using the Language and Time zone and date settings in the z setup menu (A95). • You can enable or disable daylight saving time in the z setup menu by selecting Time zone and date followed by Time zone. Enabling daylight saving time moves the clock forward one hour, and disabling it moves the clock back one hour.

C The Clock Battery • The camera’s clock is powered by a built-in backup battery. The backup battery charges when the main battery is inserted into the camera or when the camera is connected to an optional AC adapter, and it can run the clock for several days after about 10 hours of charging. • If the camera’s backup battery becomes exhausted, the date and time setting screen is displayed when the camera is turned on. Set the date and time again. See step 2 of “Setting the Display Language, Date, and Time” (A28) for more information.

C Imprinting the Shooting Date on Printed Images • You can permanently imprint the shooting date on images as they are captured by setting Print date in the setup menu. • If you want the shooting date to be printed without using the Print date setting, print using the ViewNX 2 software (A102). 29 Step 2 Select a Shooting Mode Rotate the mode dial to select a shooting mode. • A (auto) mode is used in this example. Rotate the mode dial to A.

The Basics of Shooting and Playback C Notes About the Flash In situations where a flash is needed, such as in dark locations or when the subject is backlit, make sure to raise the flash (A60). 30 Available Shooting Modes A Auto mode Used for general shooting. y, X, s, c (Scene) modes (A40) (A39) Camera settings are optimized according to the scene that you select. • y : Press the d button and select a scene. When using Scene auto selector, the camera automatically selects the optimum scene mode when you frame an image, making it even easier to take images using settings that suit the scene. • X (night landscape): Use this mode to shoot night landscapes. • s (night portrait): Use this mode to shoot evening and night portraits that include background scenery. • c (landscape): Use this mode to shoot landscapes. u (Special effects) mode Effects can be applied to images during shooting. (A50) The Basics of Shooting and Playback j, k, l, m modes (A52) Select these modes for greater control over shutter speed and aperture value.

M (User settings) mode (A57) Setting combinations that are frequently used for shooting can be saved. The saved settings can be immediately retrieved for shooting simply by rotating the mode dial to M. 31 Step 3 Frame a Picture 1 Hold the camera steady. • Keep fingers and other objects away from the lens, flash, AF-assist illuminator, microphone, and speaker. The Basics of Shooting and Playback 2 Frame the picture. 1/250 F5.6 25m 0s 840 C C Viewfinder By pressing the x button, you can shoot while looking through the viewfinder (A9). When Using a Tripod • We recommend using a tripod to stabilize the camera in the following situations. - When shooting in dim lighting with the flash lowered, or in a shooting mode in which the flash is disabled - When using the telephoto setting • When using a tripod to stabilize the camera during shooting, set Vibration reduction (A95) to Off in the setup menu to prevent potential errors caused by this function.



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32 Using the Zoom When you move the zoom control, the zoom lens position changes.

• To zoom in closer to the subject: Move toward g (telephoto) • To zoom out and view a larger area: Move toward f (wide-angle) • Rotating the zoom control all the way in either direction adjusts the zoom quickly. • The zoom can also be operated by moving the side zoom control (A2) toward g or f. The function of the side zoom control can be set in the Assign side zoom control in the setup menu (A95). • A zoom indicator is displayed at the top of the monitor when the zoom control is moved. • Digital zoom, which allows you to further magnify the subject up to approximately 4× the maximum optical zoom ratio, can be activated by moving and holding the zoom control toward g when the camera is zoomed in to the maximum optical zoom position.

Zoom out Zoom in The Basics of Shooting and Playback Optical zoom Digital zoom C Notes About Digital Zoom The zoom indicator turns blue when the digital zoom is activated, and it turns yellow when the zoom magnification is increased further. • Zoom indicator is blue: Image quality is not noticeably reduced by using the Dynamic Fine Zoom. • Zoom indicator is yellow: Image quality is noticeably reduced. • The indicator remains blue across a wider area when the image size is smaller. • The zoom indicator may not turn blue depending on the continuous shooting setting, etc.

33 Step 4 Focus and Shoot 1 Press the shutter-release button halfway. • When the subject is in focus, the focus area that includes the subject or focus indicator (A14) glows green (multiple focus areas can glow green). • When you are using digital zoom, the camera focuses on the subject in the center of the frame and the focus area is not displayed. When the camera has focused, the focus indicator glows green. • If the focus area or focus indicator flashes red, the camera is unable to focus. Modify the composition and try pressing the shutter-release button halfway again. The Basics of Shooting and Playback 1/250 F5.6 Focus area 2 Without lifting your finger, press the shutter-release button the rest of the way down. 34 The Shutter-release Button To set focus and exposure (shutter speed and aperture value), press the shutter-release button lightly until you feel a slight resistance. Focus and exposure remain locked while the shutter-release button is pressed halfway.

Press the shutter-release button all the way to release the shutter and take an image. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred images. Press the button gently. The Basics of Shooting and Playback Press halfway Press all the way B Notes About Saving Images and Recording Movies The indicator showing the number of exposures remaining or the indicator showing the maximum movie length flashes while images are being saved or while a movie is being recorded. Do not open the battery-chamber/memory card slot cover or remove the battery or memory card while an indicator is flashing. Doing this could result in loss of data, or in damage to the camera or the memory card. 35 Step 5 Play Back Images 1 Press the c (playback) button. • If you press and hold down the c (playback) button while the camera is turned off, the camera turns on in playback mode. 2 Use the multi selector to select an image to display. • Press and hold down HIJK to scroll through the images quickly.

• Images can also be selected by rotating the multi selector. • To return to shooting mode, press the c button or shutter-release button. Display the previous image The Basics of Shooting and Playback Display the next image 4/132 0112. JPG 15/05/2014 15:30 Current image number/ Total number of images C Switching the Monitor Display Press the s button to switch between showing and hiding the photo information or shooting information that is displayed in the monitor (A10). 36 Step 6 Delete Images 1 Press the l button to delete the image currently displayed in the monitor. 2 Use the multi selector HI to select the desired deletion method and press the k button. • See “Operating the Erase Selected Images Screen” (A38) for more information. • To exit without deleting, press the d button. The Basics of Shooting and Playback Delete Current image Erase selected images All images 3 Select Yes and press the k button. • Deleted images cannot be recovered.

• To cancel, select No and press the k button. Erase 1 image? Yes No 37 Operating the Erase Selected Images Screen 1 Use the multi selector J K to select an image to be deleted, and then use H to display S. • To undo the selection, press I to remove S. • Move the zoom control (A33) toward g (i) to switch to full-frame playback or f(h) to switch to thumbnail playback. Erase selected images Back 2 B Add S to all images that you want to delete and then press the k button to confirm the selection. • A confirmation dialog is displayed. Follow the instructions displayed in the monitor. The Basics of Shooting and Playback Deleting Images in a Sequence • If you press the l button and delete a key picture while only key pictures are displayed for sequences of images (A87), all images in the sequence, including the key picture, are deleted. • To delete individual images in a sequence, press the k button to display them one at a time and press the l button. C Deleting the Last Image Captured While in Shooting Mode When using shooting mode, press the l button to delete the last image that was saved.

38 Shooting Features A (Auto) Mode Used for general shooting. • The camera detects the main subject and focuses on it. If a human face is detected, the camera automatically sets focus priority on it. • See “Focusing” (A80) for more information. Functions Available in A (Auto) Mode ••••• Flash mode (A60) Self-timer (A63) Smile timer (A64) Focus mode (A65) Exposure compensation (A69) Shooting menu (A72) 39 Shooting Features Scene Mode (Shooting Suited to Scenes) When a scene is selected, camera settings are automatically optimized for the selected scene. X Night landscape (A41) 1, 2, s Night portrait (A42), c Landscape (A42) 1, 2 Rotate the mode dial to X, s or c and take images. y (Scene) Scene menu Scene auto selector Portrait Sports Party/indoor Beach Snow Sunset Shooting Features 1 Press the d button to display the scene menu and select one of the following scenes using the multi selector. x Scene auto selector (default setting) (A43) b Portrait d Sports (A43) 1 f Party/indoor (A44) 1 Z Beach 1 z Snow 1 h Sunset 1, 2, 3 i Dusk/dawn 1, 2, 3 k Close-up (A44) u Food (A45) 1 m Museum (A45) 1 m Fireworks show (A45) 2, 3 n Black and white copy (A45) 1 o Backlighting (A46) 1 p Easy panorama (A47) 1 O Pet portrait (A48) g Moon (A49) 1, 2 L Bird-watching (A49) 1 The camera focuses on the area in the center of the frame.



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The position of the area cannot be moved. 2 The camera focuses at infinity.

3 Use of a tripod is recommended, because the shutter speed is slow. Set Vibration reduction (A95) to Off in the setup menu when using a tripod to stabilize the camera during shooting. 40 To View a Description (Help Display) of Each Scene Select a scene and move the zoom control (A1) toward g (j) to view a description of that scene. To return to the original screen, move the zoom control toward g (j) again. Tips and Notes X Night landscape • Press the d button to select Y Hand-held or Z Tripod in Night landscape.

• Y Hand-held (default setting): - Press the shutter-release button all the way to capture a series of images which are combined into a single image and saved. - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen. - The angle of view (i.e.

, the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting. • Z Tripod: - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way. - Vibration reduction is disabled regardless of the Vibration reduction (A95) setting in the setup menu. 41 Shooting Features s Night portrait • Press the d button to select Y Hand-held or Z Tripod in Night portrait. • One image is captured at a slow shutter speed. Compared to using Z Tripod, when Y Hand-held is selected, the camera sets a slightly faster shutter speed in accordance with the shooting conditions to prevent camera shake. • Vibration reduction is disabled regardless of the Vibration reduction (A95) setting in the setup menu. • The flash always fires. Raise the flash before shooting. c Landscape • Press the d button to select Noise reduction burst or Single shot in Landscape.

• Noise reduction burst: This enables you to shoot a sharp landscape with a minimum of noise. - Press the shutter-release button all the way to capture a series of images which are combined into a single image and saved. - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen. - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting. • Single shot (default setting): Saves images with emphasized outlines and contrast. - One image is captured when the shutter-release button is pressed all the way. Shooting Features 42 y M x Scene auto selector • When you point the camera at the subject, the camera automatically selects the optimum scene mode from the list below and adjusts the shooting settings accordingly.

e b f h c Portrait (close-up image of one to two persons) Portrait (shooting an image of three or more persons or shooting a composition with a large background area) Landscape Night portrait (close-up image of one to two persons) Night portrait (shooting an image of three or more persons or shooting a composition with a large background area) Night landscape • The camera shoots images continuously and combines and saves them as one image in the same way as when Hand-held in X (night landscape) (A41) is selected. Close-up Backlighting (shooting non-human subjects) Backlighting (shooting human subjects) Other shooting scenes Shooting Features g i j d • Depending upon shooting conditions, the camera may not select the desired scene mode. Should this occur, switch to A (auto) mode (A30) or select the optimum scene mode for the subject manually. y M d Sports • While the shutter-release button is held all the way down, the camera shoots up to about 7 images continuously at a rate of about 7 fps (when image quality is set to Normal and image size is set to i 4608x3456). • The frame rate for continuous shooting may become slow depending upon the current image quality setting, image size setting, the memory card used, or shooting condition.

• Focus, exposure, and hue are fixed at the values determined with the first image in each series. 43 y M f Party/indoor • To avoid the effects of camera shake, hold the camera steady. Set Vibration reduction (A95) to Off in the setup menu when using a tripod to stabilize the camera during shooting. y M k Close-up From the screen displayed after k Close-up is selected, select Noise reduction burst or Single shot. • Noise reduction burst: This enables you to shoot a sharp image with a minimum of noise.

- Press the shutter-release button all the way to capture a series of images which are combined into a single image and saved. - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking an image, do not turn the camera off before the monitor switches to the shooting screen. - If the subject moves or there is a significant camera shake during continuous shooting, the image may be distorted, overlapped, or blurred. - The angle of view (i.e., the area visible in the frame) seen in the saved image is narrower than that seen in the monitor at the time of shooting. • Single shot (default setting): Saves images with emphasized outlines and contrast. - One image is captured when the shutter-release button is pressed all the way. • The focus mode (A65) setting is changed to D (macro close-up) and the camera automatically zooms to the closest position at which it can focus.

• You can move the focus area. Press the k button, use the multi selector HIJK or rotate it to move the focus area, and press the k button to apply the setting. Shooting Features 44 y M u Food • The focus mode (A65) setting is changed to D (macro close-up) and the camera automatically zooms to the closest position at which it can focus. • You can adjust hue by using the command dial. The hue setting is saved in the camera's memory even after the camera is turned off. 1/250 F5.6 • You can move the focus area. Press the k button, use the multi selector HIJK or rotate it to move the focus area, and press the k button to apply the setting. y M l Museum • The camera captures a series of up to 10 images while the shutter-release button is held all the way down, and the sharpest image in the series is automatically selected and saved (BSS (Best Shot Selector)). • The flash does not fire.

y M m Fireworks show • The shutter speed is fixed at about 4 seconds. • The telephoto zoom position is restricted to the angle of view equivalent to that of approx. 500 mm lens (in 35mm [135] format). y M n Black and white copy • Use together with D (macro close-up) focus mode (A65) when shooting subjects that are close to the camera. 10m 0s 840 45 Shooting Features y M o Backlighting • From the screen displayed after o Backlighting is selected, HDR (high dynamic range) composition can be set.



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