



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON L820. You'll find the answers to all your questions on the NIKON L820 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON L820
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Nikon

DIGITAL CAMERA

COOLPIX L820

Reference Manual



En



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Manual abstract:

When you're ready to share your movies with friends or family, connect the camera to your TV. Stereo sound will make them feel a part of your adventures. Add special effects to capture truly unique shots Special Effects Mode.....

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A 47 Brighten, darken, or soften your pictures, or keep a specific color in the image and change the other colors to black and white. Introduction Parts of the Camera The Basics of Shooting and Playback Shooting Features Playback Features Recording and Playing Back Movies General Camera Setup Reference Section Technical Notes and Index i Introduction Read This First Thank you for purchasing the Nikon COOLPIX L820 digital camera. Before using the camera, please read the information in "For Your Safety" (A ix) and familiarize yourself with the information provided in this manual. After reading, please keep this manual handy and refer to it to enhance your enjoyment of your new camera. Introduction ii About This Manual If you want to start using the camera right away, see "The Basics of Shooting and Playback" (A 13). To learn about the parts of the camera and information that is displayed in the monitor, see "Parts of the Camera" (A 1). Introduction iii Other Information • Symbols and Conventions To make it easier to find the information you need, the following symbols and conventions are used in this manual: Icon B Introduction C A/E/F Description This icon indicates cautions and information that should be read before using the camera. This icon indicates notes and information that should be read before using the camera. These icons indicate other pages containing relevant information; E: "Reference Section"; F: "Technical Notes and Index.

• SD, SDHC, and 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. iv 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, and AC adapters) 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. For more information about Nikon brand accessories, contact a local authorized Nikon dealer. v 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. 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 vi 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.

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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 (A 96). Care should be taken to avoid injury or damage to property when physically destroying data storage devices. Introduction viii 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. 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 AC adapter, unplug the AC adapter and remove the batteries immediately, taking care to avoid burns. 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 AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or 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 batteries. Do not use the camera or 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. ix Keep out of reach of children Particular care should be taken to prevent infants from putting the batteries or other small parts into their mouths. Do not remain in contact with the camera, battery charger, 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. Observe caution when handling batteries Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this product: • Before replacing the batteries, turn the product off.

If you are using an AC adapter, be sure it is unplugged. • Use only the batteries approved for use in this product (A 14). Do not combine old and new batteries or batteries of different makes or types. Introduction • When charging Nikon EN-MH2 rechargeable Ni-MH batteries, use only the specified charger and charge the batteries four at a time. When replacing the batteries with EN-MH2-B2 batteries (available separately), purchase two sets (total of four batteries).

- The EN-MH2 rechargeable batteries are for use with Nikon digital cameras only, and are compatible with COOLPIX L820. • Insert batteries in the correct orientation. • Do not short or disassemble batteries or attempt to remove or break battery insulation or casing. • Do not expose batteries to flame or to excessive heat. • Do not immerse in or expose to water.
- Do not transport or store with metal objects such as necklaces or hairpins. • Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the batteries when no charge remains. x • Discontinue use immediately should you notice any change in the batteries, such as discoloration or deformation. • If liquid from damaged batteries comes in contact with clothing or skin, rinse immediately with plenty of water.

Observe the following precautions when handling the Battery Chargers (available separately) 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 power cable or go near the battery charger during lightning storms.

Failure to observe this precaution could result in electric shock. Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flame. Should the insulation be damaged and the 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 battery charger with wet hands. Failure to observe this precaution could result in electric shock. • Do not use with travel converters or adapters designe that this product is to be 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. • For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the batteries indicates that the batteries are 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. Notice for customers in the State of California

WARNING Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling. Nikon Inc., 1300 Walt Whitman Road Melville, New York 11747-3064 USA Tel: 631-547-4200 Notice for customers in Canada CAUTION This Class B digital apparatus complies with Canadian ICES-003. ATTENTION Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. xiv Table of Contents Introduction .

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Unavailable items are displayed in gray and cannot be selected. • When a menu is displayed, you can switch to shooting mode by pressing the shutter-release button, the A (shooting mode) button, or the b (e movie-record) button. 7 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. By default, information is displayed when you turn on the camera and also when you operate the camera, and disappears after a few seconds (Monitor settings (A 96) > Photo info > Auto info). Shooting Mode 37 36 10 35 34 HDR 33 32 31 30 29 28 27 26 +1.0 29m 0s Parts of the Camera 2 4 1 3 5 8 6 7 10 9 11 12 10 13 14 15 16 17 18 1/250 F 3.0 999 23 25 24 22 21 20 19 999 9999 8 1 2 3 4 5 6 7

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B Notes About Memory Cards See "Memory Cards" (F5) and the documentation included with your memory card for more information. Removing the Memory Card The Basics of Shooting and Playback Turn the camera off and be sure that the power-on lamp and the monitor have turned off before opening the battery-chamber/ memory card slot cover.

Gently push the memory card into the camera (1) to partially eject the card, and then remove the card (2). Do not pull it at an angle. 12 B High Temperature Caution The camera, batteries, and memory card may be hot immediately after using the camera. Observe caution when removing the batteries or memory card. Internal Memory and Memory Cards Camera data, including images and movies, can be saved either in the camera's internal memory (approx.

65 MB) or on a memory card. Remove the memory card to use the internal memory for image saving and playback. 17 Preparation 3 Set 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. 1 Press the power switch to turn on the camera. • When the camera is turned on, the power-on lamp (green) lights and then the monitor turns on (the power-on lamp turns off when the monitor turns on).

2 Press the multi selector H or I to select the desired language and then press the k button. Language The Basics of Shooting and Playback Cancel 3 Press H or I to select Yes and then press the k button. Time zone and date Choose time zone and set date and time? Yes No Cancel 18 4 Press J or K to select your home time zone and then press the k button. • Press H to enable daylight saving time. When the daylight saving time function is enabled, W is displayed in the monitor. Press I to disable the daylight saving time function. London, Casablanca Back 5 Press H or I to select the date format and then press the k button. Date format Year/Month/Day Month/Day/Year Day/Month/Year The Basics of Shooting and Playback 6 Press H, I, J, or K to set the date and time, and then press the k button. • Select an item: Press K or J (changes between D, M, Y, hour, and minute). • Edit the date and time: Press H or I.

• Confirm the setting: Select the minute setting and then press the k button. Date and time D M Y 01 01 00 2013 00 Edit 7 Press H or I to select Yes and then press the k button. Date and time 15/05/2013 15:30 OK? Yes No 19 8 Make sure that the lens cap has been removed, then press the A button. • The lens extends and the shooting-mode selection screen is displayed. Press this button in shooting mode for shooting-mode selection menu. 9 When Easy auto mode is displayed, press the k button. • The camera enters the shooting mode and you can take pictures in Easy auto mode (A 24). • To switch to another shooting mode, press H or I before pressing the k button. Easy auto mode The Basics of Shooting and Playback 20 C Changing the Language Setting and the Date and Time Setting • You can change these settings using the Language (E73) and Time zone and date (E60) settings in the z setup menu (A 96). • You can enable and disable daylight saving time by selecting the z setup menu > Time zone and date (E60) > Time zone.

When enabled, the clock moves forward one hour; when disabled, the clock moves back one hour. When the travel destination (x) is selected, the time difference between the travel destination and the home time zone (w) is automatically calculated and the date and time in the selected region are saved at the time of shooting. • If you exit without setting the date and time, O flashes when the shooting screen is displayed. Use the Time zone and date setting in the setup menu to set the date and time (A 96, E60). C The Clock Battery The Basics of Shooting and Playback • The camera's clock is powered by an internal backup battery.

The backup battery charges when the main batteries are inserted into the camera or when the camera is connected to an optional AC adapter, and can power 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. □ Step 3 of "Preparation 3 Set the Display Language, Date, and Time" (A 18) C Imprinting the Shooting Date in Printed Images • Set the date and time before shooting. • You can permanently imprint the shooting date in images as they are captured by setting Print date (E65) in the setup menu (A 96).

• If you want the shooting date to be printed without using the Print date setting, print using the ViewNX 2 software (A 80). 21 Step 1 Turn the Camera On 1 Remove the lens cap and press the power switch to turn on the camera. • The lens extends and the monitor turns on. • Raise the flash when using it (A 5). 2 The Basics of Shooting and Playback Check the battery level indicator and the number of exposures remaining. Battery Level Indicator Display b B Battery exhausted. Description Battery level high. Battery level low. Prepare to replace the batteries. Cannot take pictures.

Replace the batteries. Battery level indicator 29m 0s 970 Number of exposures remaining Number of Exposures Remaining The number of pictures 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 (approx. 65 MB). • The number of exposures remaining depends on the amount of available memory in the internal memory or memory card, and also varies depending on the image quality and image size (determined by the image mode setting; A 65, E32). C 22 Notes About the Flash The flash does not pop-up automatically. Raise the flash (A 5, 54) in situations where you want to use the flash, such as in dark locations or when the subject is backlit. Turning the Camera On and Off • Remove the lens cap and turn the camera on. • When the camera is turned on, the power-on lamp (green) lights and then the monitor turns on (the power-on lamp turns off when the monitor turns on). • To turn off the camera, press the power switch.

When the camera turns off, the power-on lamp and monitor turn off. • You can press and hold the c (playback) button to turn on the camera and switch to playback mode. The lens does not extend. C Power Saving Function (Auto Off) The Basics of Shooting and Playback If no operations are performed for a while, the monitor turns off, the camera enters standby mode, and the power-on lamp flashes. If no operations are performed for approx. another three minutes, the camera turns off automatically. 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, A (shooting mode) button, c (playback) button, or b (e movie-record) button Flashes No operations performed No operations performed 3 min Camera enters standby mode.



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Camera turns off. 29m 0s 970 • The time that elapses before the camera enters standby mode can be changed using the Auto off setting in the setup menu (A 96). • By default, the camera enters standby mode in about 30 seconds when you are using shooting mode or playback mode.

23 Step 2 Select a Shooting Mode 1 Press the A button. • The shooting-mode selection menu, which allows you to select the desired shooting mode, is displayed. 2 The Basics of Shooting and Playback Press the multi selector H or I to select the desired shooting mode and then press the k button. • G (easy auto) mode is used in this example. • The shooting mode setting is saved when the camera is turned off. Easy auto mode 24 Available Shooting Modes G Easy auto mode (A 36) The camera automatically selects the optimum scene mode when you frame a picture. Camera settings are optimized according to the scene that you select. • To select a scene, first display the shooting-mode selection menu and then press the multi selector K. Select the desired scene by pressing H, I, J, or K, and then press the k button. Effects can be applied to images when shooting.

Six different effects are available. • To select an effect, first display the shooting-mode selection menu and then press the multi selector K. Select the desired effect by pressing H, I, J, or K, and then press the k button. The Basics of Shooting and Playback When the camera detects a smiling face, you can take a picture automatically without pressing the shutter-release button (smile timer). You can also use the skin softening option to smooth the skin tones in people's faces. Used for general shooting. Settings can be adjusted in the shooting menu (A 64) to suit the shooting conditions and the type of picture you want to take. b Scene (A 37) D Special effects (A 47) F Smart portrait (A 49) A Auto mode (A 52) C Changing Settings When Shooting • Features That Can Be Set Using the Multi Selector □ A 53 - Using the flash □ A 54 - Using the self-timer □ A 57 - Using macro mode □ A 59 - Adjusting brightness (exposure compensation) □ A 61 • Features That Can Be Set by Pressing the d Button (Shooting Menu) □ A 64 • Features That Can Be Set by Pressing the d Button (Setup Menu) □ A 96 25 Step 3 Frame a Picture 1 Hold the camera steady. • Keep fingers, hair, the camera strap, and other objects away from the lens, flash, AF-assist illuminator, and microphone. The Basics of Shooting and Playback 2 Frame the picture.

• Aim the camera at the desired subject. • When the camera automatically determines the scene mode, the shooting mode icon changes (A 36). Shooting mode icon 29m 0s 970 B 26 Notes About Easy Auto Mode • Depending upon shooting conditions, the camera may not select the desired scene mode. In this case, select another shooting mode (A 37, 47, 49, 52). • When the digital zoom is in effect, the scene mode changes to U.

C When Using a Tripod • We recommend using a tripod to stabilize the camera in the following situations: - When shooting in dark conditions with the flash lowered, or when shooting in dark conditions using a shooting mode in which the flash does not fire - When zooming in on the subject • Set Vibration reduction to Off in the setup menu (A 96) when using a tripod. Using the Zoom Rotate the zoom control to activate optical zoom. • To zoom in closer to the subject, rotate the zoom control to g (telephoto). • To zoom out and view a larger area, rotate the zoom control to f (wide-angle). When you turn the camera on, the zoom moves to the maximum wide-angle position.

• The side zoom control (A 2) can also be turned toward g or f to operate the zoom. Zoom out Zoom in The Basics of Shooting and Playback g Zoom in f Zoom out • A zoom indicator is displayed at the top of the monitor when the zoom control is operated. Optical zoom Digital zoom • If you rotate the zoom control or the side zoom control to g when the camera is zoomed in to the maximum optical zoom position, you can use the digital zoom to magnify the image further by up to 4x. C Digital Zoom and Interpolation When using the digital zoom, image quality deteriorates when zooming in past V. The position of V is more to the right when shooting smaller images; therefore, when the image size is smaller (as determined by the image mode setting; A 65, E31), more digital zoom can be applied without image quality deterioration. Small image size 27 Step 4 Focus and Shoot 1 Press the shutter-release button halfway (A 29). • When a face is detected: The camera focuses on the face framed by the yellow double border (focus area). When the subject is in focus, the double border turns green. The Basics of Shooting and Playback 1/250 F 3.0 • When no faces are detected: The camera focuses on the subject in the center of the frame.

When the camera has focused, the focus area turns green. 1/250 F 3.0 • 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 (A 8) lights in green. • While the shutter-release button is pressed halfway, the focus area or focus indicator may flash in red. This indicates that the camera is unable to focus. Modify the composition and then press the shutter-release button halfway again. 2 28 Press the shutter-release button the rest of the way down (A 29). • The shutter is released and the image is saved. The Shutter-release Button Press halfway To set focus and exposure (shutter speed and aperture value), press the shutter-release button halfway, stopping when you feel resistance.

Focus and exposure remain locked while the shutter-release button is pressed halfway. While pressing the shutter-release button halfway, press the shutter-release button the rest of the way down to release the shutter and take a picture. 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 all the way B Notes About Saving Data After taking pictures or recording movies, the number of exposures remaining or the remaining recording time flashes while images or movies are being saved.

Do not open the battery chamber/memory card slot cover. Image and movie data could be lost and the camera or memory card could be damaged. B C Notes About Focus Subjects Not Suitable for Autofocus □ A 71 AF-assist Illuminator and Flash If the subject is dimly lit, the AF-assist illuminator (A 96) may light when the shutter-release button is pressed halfway, and the flash (A 54) may fire when the shutter-release button is pressed all the way down. C To Make Sure You Do Not Miss a Shot If you are concerned that you might miss a shot, press the shutter-release button all the way without first pressing it halfway. 29 Step 5 Play Back Images 1 Press the c (playback) button.



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• The camera switches to playback mode and the last image saved is displayed in full-frame playback mode. c (playback) button 2 The Basics of Shooting and Playback Use the multi selector to select an image to display. • Display the previous image: H or J • Display the next image: I or K • Press and hold H, I, J, or K to scroll quickly through images. Displays the previous image Displays the next image • Remove the memory card from the camera to play back images saved in the camera's internal memory. C is displayed near the current image number/total number of images. • To return to shooting mode, press the A button, the shutter-release button, or the b (e movie-record) button. 15/05/2013 15:30 0004.JPG 4/4 Current image number/ total number of images 30 C Viewing Images • Images may be displayed briefly at low resolution immediately after switching to the previous image or next image. • When you play back images in which the face of a person (A 68) or pet (A 44) was detected at the time of shooting, depending on the orientation of the detected face, the images are automatically rotated for playback display. • Each series of images captured using continuous shooting is saved in a sequence, and by default, only the first image in the sequence (key picture) is displayed to represent them (A 76).

Press the k button to display them as individual images. Press H to return to the key picture only display. C More Information • Playback Zoom □ A 74 • Thumbnail Display, Calendar Display □ A 75 • Features That Can Be Set by Pressing the d Button (Playback Menu) □ A 76 31 The Basics of Shooting and Playback Step 6 Delete Images 1 Press the l button to delete the image currently displayed in the monitor. 2 The Basics of Shooting and Playback Press the multi selector H or I to select the desired deletion method and then press the k button. • Current image: Only the current image is deleted. • Erase selected images: Multiple images can be selected and deleted (A 33). • All images: All images are deleted. • To exit without deleting, press the d button. Delete Current image Erase selected images All images 3 Press H or I to select Yes and then press the k button. • Deleted images cannot be recovered.

• To cancel, press H or I to select No and then press the k button. Erase 1 image? Yes No 32 Operating the Erase Selected Images Screen 1 Press the multi selector J or K to select an image to be deleted, and then press H to display c. • To undo the selection, press I to remove c. • Rotate the zoom control (A 2) to g (i) to switch to fullframe playback mode or f (h) to display thumbnails. Erase selected images Back ON/OFF 2 Add c 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 B Notes About Deletion • Deleted images cannot be recovered. Copy important images to a computer before deleting them from the camera. • Protected images (A 76) cannot be deleted. B 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 (A 30), 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 then 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. 33 34 Shooting Features This chapter describes the camera's shooting modes and the features that are available when using each shooting mode. You can adjust settings according to the shooting conditions and the kind of pictures you want to take. G (Easy Auto) Mode.....

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..... 36 Scene Mode (Shooting Suited to Scenes) .

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.... 37 Special Effects Mode (Applying Effects When Shooting).

.. 47 Smart Portrait Mode (Capturing Smiling Faces) ... 49 A (Auto) Mode

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. 52 Features That Can Be Set Using the Multi Selector

53 Using the Flash (Flash Modes)

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... 54 Using the Self-timer.....

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If no faces are detected, the camera focuses on the subject in the center of the frame. Digital zoom cannot be used. The camera focuses even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing. c Landscape • The focus area or focus indicator (A 9) always turns green when the shutter-release button is pressed halfway. d Sports • The camera focuses on the area in the center of the frame. • If you continue to hold the shutter-release button all the way down, up to about 6 images are captured continuously at a rate of about 8 fps (when Image mode is set to P 4608×3456). • The camera focuses even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing. • Focus, exposure, and hue are fixed at the values determined with the first image in each series.

• The frame rate with continuous shooting may vary depending upon the current image mode setting, the memory card used, or shooting condition. 38 e Night portrait • The flash always fires. Raise the flash before shooting. • After you select e Night portrait, select Y Hand-held or Z Tripod on the next screen. • Y Hand-held (default setting): - When e in the upper left of the monitor lights in green, press the shutter-release button all the way to capture a series of images that will be combined and saved as a single image.

- Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking a picture, do not turn the camera off before the monitor switches to the shooting screen. - If the subject moves while the camera is shooting continuously, the image may be distorted, overlapped, or blurred. • Z Tripod: Select this option when using a tripod or other means to stabilize the camera during shooting. - Vibration reduction is not used even if Vibration reduction (A 96) in the setup menu is set to On.

- One image is captured at a slow shutter speed when the shutter-release button is pressed all the way. • When the camera detects a human face, it focuses on that face (A 68). • The skin softening feature makes the skin tones in people's faces appear smoother (A 51). • If no faces are detected, the camera focuses on the subject in the center of the frame. • Digital zoom cannot be used. f Party/indoor • The camera focuses on the area in the center of the frame. • As images are easily affected by camera shake, hold the camera steadily. Set Vibration reduction to Off in the setup menu (A 96) when shooting using a tripod to stabilize the camera. Z Beach • The camera focuses on the area in the center of the frame. z Snow • The camera focuses on the area in the center of the frame.

39 Shooting Features h Sunset • The camera focuses on the area in the center of the frame. i Dusk/dawn O O • The focus area or focus indicator (A 9) always turns green when the shutter-release button is pressed halfway. j Night landscape • After you select j Night landscape, select Y Hand-held or Z Tripod on the next screen. • Y Hand-held (default setting): Select this option to produce shots with reduced blurring and noise even when the camera is hand-held. - When j in the upper left of the monitor lights in green, press the shutter-release button all the way to capture a series of images that will be combined and saved as a single image. - Once the shutter-release button is pressed all the way, hold the camera still until the captured image is displayed. After taking a picture, do not turn the camera off before the monitor switches to the shooting screen. • Z Tripod: Select this option when using a tripod or other means to stabilize the camera when shooting. - Vibration reduction is not used even if Vibration reduction (A 96) in the setup menu is set to On. - One image is captured at a slow shutter speed when the shutter-release button is pressed all the way.

• The focus area or focus indicator (A 9) always turns green when the shutter-release button is pressed halfway. • Digital zoom cannot be used. k Close-up • Macro mode (A 59) is enabled and the camera automatically zooms to the closest position at which it can shoot. • The camera focuses on the area in the center of the frame. Use focus lock to frame the picture on an object not in the center of the frame (A 70).

• The camera focuses even when the shutter-release button is not pressed halfway. You may hear the sound of the camera focusing. O: Shutter speed is reduced when using scene modes indicated with O; therefore, the use of a tripod is recommended. Set Vibration reduction to Off in the setup menu (A 96) when shooting using a tripod to stabilize the camera. Shooting Features 40 u Food • Macro mode (A 59) is enabled and the camera automatically zooms to the closest position at which it can shoot.

• You can adjust hue by pressing the multi selector H or I. The hue setting is saved in the camera's memory even after the camera is turned off. • The camera focuses on the area in the center of the frame. Use focus lock to frame the picture on an object not in the center of 29m 0s the frame (A 70). • The camera focuses even when the shutter-release button is not 970 pressed halfway. You may hear the sound of the camera focusing. l Museum • The flash does not fire. • The camera focuses on the area in the center of the frame. • 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)). m Fireworks show Shooting Features O • Shutter speed is fixed at four seconds.

• The camera focuses at infinity. • When the shutter-release button is pressed halfway, the focus indicator (A 9) always turns green. n Black and white copy • The camera focuses on the area in the center of the frame. • Use together with macro mode (A 59) when shooting subjects that are close to the camera. O: Shutter speed is reduced when using scene modes indicated with O; therefore, the use of a tripod is recommended. Set Vibration reduction to Off in the setup menu (A 96) when shooting using a tripod to stabilize the camera. 41 o Backlighting • After you select o Backlighting, set HDR (high dynamic range) compositing to On or Off on the next screen. • The camera focuses on the area in the center of the frame. • When HDR is set to On: Use when taking pictures with very bright and dark areas in the same frame. - P is displayed when shooting.

- Digital zoom cannot be used. - When the shutter-release button is pressed all the way, the camera shoots images continuously at high speed, and saves the following two images. - A non-HDR composite image - An HDR composite image in which the loss of details in highlights or shadows is minimized - The second image saved is an HDR composite image.



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If there is only enough memory to save one image, an image processed by D-Lighting (A 76) at the time of shooting, in which dark areas of the image are corrected, is the only image saved. - Once the shutter-release button is pressed all the way, hold the camera still until a still image is displayed. After taking a picture, 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 will be narrower than that seen in the monitor at the time of shooting. • When HDR is set to Off (default setting): The flash always fires.

Raise the flash before shooting. - When the shutter-release button is pressed all the way down, one image is captured. Shooting Features 42 p Easy panorama • You can take a panorama picture simply by moving the camera in the desired direction. • After you select p Easy panorama, select the shooting range from Normal (180°) or Wide (360°) on the next screen. • Press the shutter-release button all the way down, remove your finger from the button, and then slowly pan the camera horizontally. Shooting automatically ends when the camera captures the specified shooting range. • The camera focuses on the area in the center of the frame when shooting starts. • The zoom is fixed at the wide-angle position. • If you press the k button when an image captured using easy panorama is displayed in fullframe playback mode, the image scrolls automatically. □ “Using Easy Panorama (Shooting and Playback)” (E2) Shooting Features B Notes About Printing Panorama Images When printing panorama images, the entire image may not be able to be printed depending on the printer’s settings.

Additionally, printing may not be possible depending on the printer. See the documentation provided with the printer or consult a digital photo lab for details. 43 O Pet portrait • When you aim the camera at the face of a dog or cat, the camera can detect the face and focus on it. By default, the camera automatically releases the shutter once it has focused (pet portrait auto release). • After you select O Pet portrait, select Single or Continuous on the next screen. - Single: Images are captured one at a time. - Continuous: The camera captures three images continuously at a rate of about 2.1 fps when it has focused on the detected face. If you shoot manually by holding the shutter-release button all the way down, up to about 38 images are captured continuously at a rate of about 2.1 fps (when Image mode is set to P 4608×3456).

• To change Pet portrait auto release settings, press the multi selector J (n). - Y: When the camera detects a pet’s face, it focuses and then releases the shutter automatically. - OFF: The camera does not release the shutter automatically, even if a pet’s face is detected. Press the shutter-release button to release the shutter. The camera also detects people’s faces (A 68).

If the camera detects a person’s face and a pet’s face in the same shot, it focuses on the pet’s face. • Pet portrait auto release turns off automatically when: - Five bursts have been taken. - Internal memory or the memory card is full. To continue shooting with Pet portrait auto release, press the multi selector J (n) to set again. B Pet Portrait Auto Release Shooting Features B Focus Area • When the camera detects a face, a yellow double border (focus area) is displayed around the face, and the double border turns green when the camera has focused.

• When the camera detects more than one dog or cat face (up to five can be detected), the face displayed largest in the monitor is framed by a double border and the others by single borders. • If no pets’ or people’s faces are detected, the camera focuses on the subject in the center of the frame. 29m 0s 970 B Notes About Pet Portrait 44 • Digital zoom cannot be used. • Depending on the distance of the subject from the camera, the speed of the subject’s movement, the direction that the subject is facing, the ambient brightness of the face, etc., pet faces may not be detected or other subjects may be framed by a border. s 3D photography • The camera captures one image for each eye to simulate a 3D image on a 3D-compatible TV or monitor. • After taking the first picture by pressing the shutter-release button, move the camera horizontally to the right so that the subject is aligned with the guide on the monitor. The camera automatically captures the second image when it detects that the subject is aligned with the guide. • The camera focuses on the area in the center of the frame for the first shot. Cancel • The focus, exposure, and white balance are locked after the first shot, and R is displayed on the monitor.

Guide • 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. • Images captured in this mode are saved at an image size of n (1920 × 1080). • The two captured images are saved as a 3D image (MPO file). The first image (the left eye image) is also saved as a JPEG file. Shooting Features B Notes About Capturing 3D Images • Moving subjects are not suited to 3D photography.

• 3D images have a less pronounced 3D feel as the distance between the camera and subject is increased. • 3D images may have a less pronounced 3D feel when the subject is dark or when the second image is not aligned precisely. • Images captured under dim lighting may appear grainy with noise. • The telephoto zoom position is limited to the angle of view equivalent to that of up to a 132 mm lens in 35mm [135] format. • If you press the k button after capturing the first image, or if the camera does not detect that the subject is aligned with the guide within 10 seconds, shooting is canceled. • If the camera does not capture the second image and cancels the shooting even when you align the guide with the subject, try manual shooting using the shutter-release button. • Movies cannot be recorded in 3D. 45 B Playing Back 3D Images • 3D images cannot be played back in 3D on the camera monitor.

Only the left eye image of a 3D image is displayed during playback. • To view 3D images in 3D, a 3D-compatible TV or monitor is required. Use a 3D-compatible HDMI cable to connect the camera and these devices (A 78) for 3D viewing. • When connecting the camera using an HDMI cable, set TV settings in the setup menu (A 97) as follows: - HDMI: Set to Auto (default setting) or 1080i. - HDMI 3D output: Set to On (default setting).

• When the camera is connected via HDMI and images are played back, it may take a while to display images when switching between 3D images and non-3D images. Playback zoom is not possible while images are played back in 3D. • Refer to the documentation included with the TV or monitor for details on how to make the settings.



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