



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON COOLPIX P510. You'll find the answers to all your questions on the NIKON COOLPIX P510 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 P510
User guide NIKON COOLPIX P510
Operating instructions NIKON COOLPIX P510
Instructions for use NIKON COOLPIX P510
Instruction manual NIKON COOLPIX P510

Nikon

DIGITAL CAMERA

COOLPIX P510

Reference Manual



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Manual abstract:

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Introduction Parts of the Camera and Basic Operations The Basics of Shooting and Playback Shooting Features Playback Features Recording and Playing Back Movies Using GPS General Camera Setup Reference Section Technical Notes and Index i Introduction Read This First Thank you for purchasing the Nikon COOLPIX P510 digital camera. Before using the camera, please read the information in "For Your Safety" (Avi) 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 Confirming the Package Contents In the event that any items are missing, please contact the store where you purchased the camera. COOLPIX P510 Digital Camera Camera Strap Lens Cap LC-CP24 (with cord) Rechargeable Li-ion Battery EN-EL5 (with terminal cover) Charging AC Adapter EH-69P* USB Cable UC-E6 Audio Video Cable EG-CP16 • Warranty ViewNX 2 Installer CD Reference Manual CD * A plug adapter is included if the camera was purchased in a country or region that requires a plug adapter. The shape of the plug adapter varies with the country or region of purchase.

NOTE: A memory card is not included with the camera. ii Read This First About This Manual If you want to start using the camera right away, see "The Basics of Shooting and Playback" (A17).

To learn about the parts of the camera and basic operations, see "Parts of the Camera and Basic Operations" (A1). 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 C A/E/F Description This icon indicates cautions and information that should be read before using the camera. This icon marks notes, 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." Introduction •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 and viewfinder 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 Read This First 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 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.

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.

About the User's Manual •No part of the documentation 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 will not be held liable for any damages resulting from the use of this product. •Nikon reserves the right to change the specifications of the hardware and software described in the documentation at any time and without prior notice. •While every effort was made to ensure that the information in the documentation 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). iv Read This First 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.



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For the COOLPIX P510, the log data saved on the memory card is handled in the same way as other data. You can delete unsaved log data from the memory card using Create log □ End log □ Erase log. v 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.

Introduction This icon marks warnings, information that should be read before using this Nikon product, to prevent possible injury.

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. 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

Using the camera in the presence of flammable gases such as propane and gasoline, as well as flammable sprays or dust 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 Do not keep the products within reach of children. Doing so may cause injury. 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. vi For Your Safety 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-EL5 (included). Charge the battery by inserting it into the camera and connecting the Charging AC Adapter. EH-69P (included). • 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. • Replace the terminal cover when transporting the battery.

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 remai supply unit is intended to be correctly orientated in a vertical or floor mount position. equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/television technician for help. Introduction Federal Communications Commission (FCC) Radio Frequency Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this CAUTIONS Modifications The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment. Interface Cables Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules. ix Notices 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.



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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. Notices for Customers in Europe CAUTIONS RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. This symbol indicates 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 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. Introduction x Table of Contents Introduction .

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.... F19 Introduction xvi Parts of the Camera and Basic Operations Parts of the Camera and Basic Operations This chapter describes the parts of the camera and also explains the main functions of each part and the basic camera operations.

Parts of the Camera

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...2 The Camera Body

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...2 Controls Used in Shooting Mode

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16 Using the Viewfinder.....

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. 16 If you want to start using the camera right away, see "The Basics of Shooting and Playback" (A17). 1 Parts of the Camera and Basic Operations Parts of the Camera The Camera Body Flash raised 1 2 3 4 5 6 Parts of the Camera and Basic Operations 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 13 14 15 12 16 Power connector cover (for connection with an optional AC Adapter).....E100 Eyelet for camera strap .

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..... 66 3 Parts of the Camera Controls Used in Shooting Mode Control Name Main Function A Mode dial Change the shooting mode. 28 Zoom control Rotate toward g (i) (telephoto zoom position) to zoom in, and rotate toward f (h) (wide-angle position) to zoom out. Parts of the Camera and Basic Operations 31 Rotary multi selector See "Using the Rotary Multi Selector" for more information.

12 Set the flexible program (during shooting Command dial mode j) or shutter speed (during shooting modes k or m). d (menu) button 57, 59, 110 Display and hide the menu. 13 When pressed halfway (i.e., if you stop pressing when you feel resistance slightly): ShutterSet focus and exposure. release button When pressed all the way (i.e., if you press the button all the way down): Release the shutter. w (FUNC) button Playback button Display the setting menu of pre-assigned function. 32 110 Play back images.

11, 34 Delete button Delete the last image that was saved. 36 b (e movieStart and stop movie recording. record) button 96 4 Parts of the Camera Control Name x (monitor) button Main Function Switch the monitor display. A 16 s (display) Switch the information displayed on the button monitor. Side zoom control Use the function assigned with Assign side zoom control. 15 109 Parts of the Camera and Basic Operations Controls Used in Playback Mode Control Name Playback button Main Function A • When the camera is turned off, press 25 and hold this button to turn the camera on in playback mode. • Return to shooting mode. 11 • Enlarge the image when rotated toward 35 g (i); display image thumbnail or the calendar when rotated toward f (h). • Adjust the volume for voice memo and 88, movie playback. 100 See "Using the Rotary Multi Selector" for more information.

Zoom control Rotary multi selector 12 Command dial Switch the magnification of an enlarged image. • Display individual images of a sequence in full-frame. • Scroll an image recorded with easy panorama. • Play back movies. • Switch from image thumbnail or zoomed image display to full-frame playback mode. Display and hide the menu. 35 E13 E3 100 12 Apply selection button d (menu) button 13 5 Parts of the Camera Control Name Delete button Main Function Delete images. A 36 Shutterrelease button Return to shooting mode. b (e movierecord) button x (monitor) button Switch the monitor display. 16 Parts of the Camera and Basic Operations – s (display) Switch the information displayed on the button monitor.

w (FUNC) button 15 Display the shooting location of an image during log recording (latitude, longitude, E73 and current location of the movement being tracked for creating a log). Changing the Angle of the Monitor The angle of the monitor can be lowered down to 82° or raised upward to 90°. This is convenient when taking pictures with the camera held at high or low positions. B 6 Notes on Monitor • Do not apply excessive force when changing the angle of the monitor. • The monitor cannot be moved horizontally.

• Put the monitor back in the original position when using in normal situations. Parts of the Camera Attaching the Camera Strap and Lens Cap Attach the lens cap to the strap, and then attach the strap to the camera. Parts of the Camera and Basic Operations Attach the strap at two places. B Lens Cap • Remove the lens cap before you shoot a picture. • At times when you are not shooting pictures such as when the power is off, or while you are carrying the camera, attach the lens cap to the camera to protect the lens.

• Do not attach other than the lens cap to the lens. 7 Parts of the Camera The Monitor • The information that is displayed on the monitor during shooting and playback changes depending on the camera's settings and state of use. Press the s (display) button to hide or show the information on the monitor (A15). Shooting Mode 47 46 4 45 44 2 43 1 3 6 8 9 10 16 42 17 18 19 20 21 22 5 7 12 13 14 Parts of the Camera and Basic Operations 11 15 41 39 1/250 F5.6 29m 0s 999 23 40 38 37 36 29 28 24 999 9999 25 26 35 34 33 32 31 30 27 8 Parts of the Camera 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 Shooting mode.



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.....24 *Setting the Display Language, Date, and Time (First Use Only) ...*

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.....26 *Step 2 Select a Shooting Mode..*

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.....28 *Step 3 Frame a Picture*

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.....30 *Step 4 Focus and Shoot..*

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.....32 *Playback Step 5 Play Back Images .*

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• Be sure to read thoroughly and follow the warnings for “Charging AC Adapter” (F4) before use. B Charging Using Computer or Battery Charger • You can also charge the Rechargeable Li-ion Battery EN-EL5 by connecting the camera to a computer (A90, 110). • The EN-EL5 can be charged without using the camera by using the Battery Charger MH-61 (available separately; E100). C AC Power Source • You can take pictures and play back images while using the AC Adapter EH-62A (available separately; E100) to power the camera from an electrical outlet. • Do not, under any circumstances, use another make or model of AC adapter other than EH-62A.

Failure to observe this precaution could result in overheating or damage to the camera. 21 Preparation 3 Insert a Memory Card 1 Confirm that the power-on lamp and the monitor are turned off and open the battery-chamber/memory card slot cover. • Be sure to turn off the camera before opening the cover. 2 The Basics of Shooting and Playback Insert the memory card. • Slide the memory card until it clicks into place.

B Inserting the Memory Card Correctly Inserting the memory card upside down or backwards could damage the camera or the memory card. Be sure to confirm that the memory card is in the correct orientation. Memory card slot 3 Close the battery-chamber/memory card slot cover. B Formatting a Memory Card • The first time you insert a memory card that has been used in another device into this camera, be sure to format it with this camera. • All data stored on a memory card is permanently deleted when the card is formatted.

Be sure to make copies of any data you wish to keep before formatting the memory card. • To format a memory card, insert the memory card into the camera, press the d button and select Format card from the setup menu (A108). B 22 Note on Memory Cards Refer to the documentation included with the memory card, as well as “The Memory Cards” (F5) in “Caring for the Products”. Preparation 3 Insert a Memory Card Removing Memory Cards Before opening the battery-chamber/memory card slot cover, turn the camera off and confirm that the power-on lamp and the monitor are off. Press the memory card in lightly with your finger (1) to partially eject it, and then pull it out straight (2). B High Temperature Caution The camera, battery, and memory card may be hot immediately after using the camera. Observe caution when removing the battery or memory card. Internal Memory and Memory Cards The Basics of Shooting and Playback Camera data, including images and movies, can be saved in either the camera’s internal memory (approximately 90 MB) or on a memory card. To use the camera’s internal memory for shooting or playback, first remove the memory card. Approved Memory Cards The following Secure Digital (SD) memory cards have been tested and approved for use in this camera.

• When recording a movie onto a memory card, a memory card with an SD speed class of Class 6 or higher is recommended. SD memory cards SanDisk TOSHIBA Panasonic Lexar 1 2 3 2 GB 1 2 GB 1 2 GB 1 SDHC memory cards 2 SDXC memory cards 3 4 GB, 8 GB, 16 GB, 32 GB 64 GB 4 GB, 8 GB, 16 GB, 32 GB 64 GB 4 GB, 8 GB, 12 GB, 16 GB, 32 GB 48 GB, 64 GB 4 GB, 8 GB, 16 GB, 32 GB 64 GB, 128 GB Before using a card reader or similar device, check that the device supports 2 GB cards. SDHC-compliant. Before using a card reader or similar device, check that the device supports SDXC. SDXC-compliant. Before using a card reader or similar device, check that the device supports SDXC. • Contact the manufacturer for details on the above cards. 23 Step 1 Turn the Camera On 1 Remove the lens cap and press the power switch to turn on the camera. • If you are turning the camera on for the first time, see “Setting the Display Language, Date, and Time” (A26). • The lens extends, and the monitor is turned on.

2 The Basics of Shooting and Playback Check the battery level and number of exposures remaining. Battery level indicator 25m 0s 1/250 F5.6 840 Number of exposures remaining Battery Level Display b B N Battery exhausted. Battery level high. Battery level low.

Prepare to charge or replace the battery. Cannot take pictures. Charge or replace the battery. Description Number of Exposures Remaining The number of exposures remaining is displayed. • When a memory card is not inserted, C is displayed and pictures are recorded to the internal memory (approx. 90 MB). • The number of pictures that can be stored depends on the remaining capacity of the internal memory or memory card, the image quality, and the image size (A77). • The number of exposures remaining shown in the illustration differs from the actual value. C 24 Monitor Display Press the s button to switch between showing and hiding the photo information or shooting information that is displayed on the monitor (A15). Step 1 Turn the Camera On Turning the Camera On and Off • When the camera is turned on, the power-on lamp (green) lights and the monitor is turned on (the power-on lamp turns off when the monitor is turned on). • To turn off the camera, press the power switch. Both the monitor and the power-on lamp are turned off. • To turn on the camera in playback mode, press and hold the c (playback) button. At this time, the lens does not extend. The Basics of Shooting and Playback C Power Saving Function (Auto Off) If no operations are performed for a while, the monitor will turn off, the camera will enter standby mode, and the power-on lamp will flash.

If no operations are performed for another three minutes, the camera will turn off automatically. To turn on the monitor again in standby mode, perform either one of the following operations. • Press the power switch, shutter-release button, c button, or b (e movie-record) button. • Rotate the mode dial. Flashes No operations performed. No operations performed. 25m 0s 1/250 F5.6 840 3 min Camera enters standby mode. Camera turns off. • The time that elapses before the camera enters standby mode can be changed using the Auto off setting in the setup menu (A108).

• By default, the camera enters standby mode in about one minute when you are using shooting mode or playback mode. • If you are using the optional AC Adapter EH-62A, the camera enters standby mode after 30 minutes. This setting cannot be changed. 25 Step 1 Turn the Camera On Setting the Display Language, Date, and Time Dialogs for language selection and camera clock setting are displayed the first time the camera is turned on. 1 Press the multi selector H or I to choose the desired language and press the k button.

Language Čeština Dansk Deutsch English Español Ελληνικά Cancel Multi selector 2 Press H or I to choose Yes and press the k button. Time zone and date Choose time zone and set date and time? Yes No Cancel The Basics of Shooting and Playback 3 Press J or K to select your home time zone (Time zone), and press the k button.



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• See “Daylight Saving Time” (A27) for more information. London Casablanca Back 4 Press H or I to choose the date display order and press the k button or K. Date format Year/Month/Day Month/Day/Year Day/Month/Year 5 Press H, I, J or K to set date and time, and press the k button.

Date and time D M Y 2012 • Choose an item: Press K or J (selected in the following 15 05 order: D (day) □ M (month) □ Y (year) □ hour □ 15 10 minute). The item can also be chosen by rotating the multi selector. • Set the contents: Press H or I. Date and time can also be set by rotating the command dial. • Confirm the settings: Select the minute field and press the k button or K. Edit 26 Step 1 Turn the Camera On 6 Press H or I to choose Yes and press the k button. • After finishing the setting, the lens extends slightly and the shooting screen is displayed. Date and time 15/05/2012 15:10 OK? Yes No Daylight Saving Time If daylight saving time is in effect, press the multi selector H to enable the daylight saving time function while setting the region in step 3. W is displayed at the top of the monitor. Press I to disable the daylight saving time function.

London Casablanca The Basics of Shooting and Playback Back 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 z setup menu (A108). • In the Time zone setting of Time zone and date in z setup menu, when the daylight saving time function is enabled, the camera’s clock is set forward by one hour, and when disabled, set back by one hour. When the x travel destination is set, the camera automatically calculates the time difference between the travel destination and the w home time zone, and saves images using the date and time of the travel destination. • 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 (A108) to set the date and time. C The Clock Battery • The camera’s clock is powered by a backup battery that is separate from the camera’s main battery. • The backup battery charges after about ten hours of charging when the main battery is inserted into the camera or when the camera is connected to an optional AC adapter, and can store the set date and time for several days. • 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” (A26) for more information.

C Imprinting the Shooting Date in Printed Images • Set the date and time before shooting. • You can imprint the shooting date in images as they are captured by setting Print date in the setup menu (A108). • If you want the shooting date to be printed without using the Print date setting, print using the ViewNX 2 software (A91). 27 Step 2 Select a Shooting Mode Rotate the mode dial to select the shooting mode. • The following describes how to take pictures in A (auto) mode as an example.

Rotate the mode dial to A. Auto mode The Basics of Shooting and Playback • The camera switches to A (auto) mode and the shooting mode icon changes to A. Shooting mode icon 25m 0s 1/250 F5.6 840 • See “The Monitor” (A8) for more information. 28 Step 2 Select a Shooting Mode Available Shooting Modes j, k, l, m mode (A57) Choose these modes for greater control over shutter speed and aperture value.

Settings in the shooting menu (A60) are available to suit the shooting conditions and the type of shot you want to capture. A (auto) mode (A40) Shoot easily with basic camera operations without going into detailed settings. Scene mode (A41) When one of the scene modes is selected, pictures are captured using settings that are optimized for the selected scene. y (Scene): Choose the desired scene from 16 different scene types using the scene menu, and the camera’s settings are automatically optimized for the selected scene. In scene auto selector mode, the camera automatically selects the optimum scene mode for simpler shooting. • To select a scene, first rotate the mode dial to y and press the d button. Select the desired scene by pressing the multi selector H or I, and then press the k button. j (Night landscape): Captures the atmosphere of night landscapes. c (Landscape): Use this mode for vivid landscapes and cityscapes. W (Backlighting): The flash fires when there is backlight to prevent the subject from being hidden in shadow, or use the HDR function to shoot when there are very bright areas and very dark areas in the same frame.

M User settings mode (A63) 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. u Special effects mode (A55) Effects can be applied to pictures during shooting. Nine different effects are available. The Basics of Shooting and Playback C Note on the Flash When the flash is lowered, the flash setting is fixed at off and W is displayed at the top of the monitor. In situations where a flash is needed, such as in dark locations or when the subject is backlit, be sure to raise the flash (A66). C Features That Are Available in Shooting Mode • The functions of the multi selector H (m), I (p), J (n) or K (o) can be set. See “Features That Can Be Set Using the Multi Selector” (A65) for more information. • Press the d button to display the menu for the selected shooting mode. See “Shooting Features” (A39) for more information about the settings available in the menu for the current shooting mode.

29 Step 3 Frame a Picture 1 Ready the camera. • Keep your fingers, hair, strap and other objects away from the lens, flash, AF-assist illuminator and microphone. The Basics of Shooting and Playback 2 Frame the picture. • Point the camera at the subject. 25m 0s 1/250 F5.

6 840 C C C ISO Sensitivity E (ISO sensitivity, A8) may be displayed on the shooting screen. When E is displayed, the ISO sensitivity is automatically raised. Viewfinder Use the viewfinder to frame pictures (A16) when bright light makes it difficult to see the display on the monitor. Using a Tripod 30 • In the following situations, use of a tripod is recommended to avoid the effects of camera shake: - When shooting in a dark location or with the flash mode (A66) set to W (off) - When shooting in the telephoto zoom position • To take a picture with the camera attached to a tripod, set Vibration reduction in the setup menu (A108) to Off. Step 3 Frame a Picture Using the Zoom Zoom out Zoom in Rotate the zoom control to activate the optical zoom.

• To zoom in so that the subject fills a larger area of the frame, rotate toward g (telephoto zoom position). • To zoom out so that the area visible increases in the frame, rotate toward f (wide-angle position).



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• Rotating the zoom control all the way in either direction adjusts the zoom quickly, while rotating the control partially adjusts the zoom slowly (except during movie recording). • A zoom indicator is displayed at the top of the monitor Digital Optical when the zoom control is rotated. zoom zoom • The zoom can also be operated by rotating the side zoom control (A3) toward g or f. The function of the side zoom control can be set in the Assign side zoom control in the setup menu (A108). The Basics of Shooting and Playback Digital Zoom When the camera is already at the maximum optical zoom position, rotating the zoom control toward g (telephoto zoom position) triggers the digital zoom. Digital zoom can magnify the subject up to about 2× beyond the maximum magnification of the optical zoom. Maximum optical zoom Digital zoom enabled • The focus will be at the center of the frame and the focus area will not be displayed when the digital zoom is in effect. C Digital Zoom and Interpolation Unlike the optical zoom, the digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of image quality depending on the image size (A78) and digital zoom magnification.

V indicates the zoom position where interpolation is applied when shooting still pictures. When the zoom is increased beyond the V position, interpolation is initiated and the zoom indicator also turns yellow. V moves to the right as the image size becomes smaller, allowing you to confirm the zoom position that can be used to capture still images without image degradation before shooting at the current image size setting. When the image size is small • Digital zoom can be disabled from the Digital zoom option in the setup menu (A108). C More Information • See “Zoom memory” (A62) for more Information. • See “Startup zoom position” (A62) for more Information. 31 Step 4 Focus and Shoot 1 Press the shutter-release button halfway, i.e., press the button slightly until you feel resistance. • When you press the shutter-release button halfway, the camera sets the focus and exposure (shutter speed and aperture value).

Focus and exposure remain locked while the shutter-release button is pressed halfway. • When the camera detects the main subject, it focuses on that subject. When the subject is in focus, the focus areas (up to 12 areas) light in green. The Basics of Shooting and Playback 1/250 F5.6 Shutter speed • The camera has nine focus areas, and if it does not detect the main subject, it automatically selects the focus areas containing the subject closest to the camera.

When the subject is in focus, the focus areas that are in focus (up to nine areas) light in green. 1/250 Aperture value F5.6 • When the digital zoom is in effect, the camera focuses on the subject at the center of the screen, and the focus area is not displayed. When the subject is in focus, the focus indicator (A8) lights in green. • When the shutter-release button is pressed halfway and the focus area or focus indicator flashes in red, the subject is out of focus.

Change the composition and press the shutter-release button halfway again. 2 Press the shutter-release button all the way, i.e., press the button the rest of the way down. • The shutter is released and the picture is recorded. • If you press the shutter-release button with too much force, the camera may shake, causing images to be blurred. Press the button gently. 32 Step 4 Focus and Shoot B Note on Recording Images and Saving Movies The indicator showing the number of exposures remaining or the indicator showing the maximum movie length flashes while images are being recorded or while a movie is being saved. 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.

B Autofocus Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the focus area or focus indicator lights in green. • Subject is very dark • Objects of sharply differing brightness are included in the scene (e.g. the sun behind the subject makes that subject appear very dark) • No contrast between the subject and surroundings (e.g. a portrait subject, wearing a white shirt, is standing in front of a white wall) • Several objects are at different distances from the camera (e.g., an animal inside a cage) • Subjects with repeating patterns (window blinds, buildings with multiple rows of similarly shaped windows, etc.) • Subject is moving rapidly In these situations, try pressing the shutter-release button halfway to refocus several times, or focus on another subject and use focus lock (A86).

When using focus lock, be sure that the distance between the camera and the subject with which focus was locked is the same as that for the actual subject.

The camera can also focus using manual focus (A72, E2). The Basics of Shooting and Playback B C C C The Subject Is Too Close to the Camera If the camera does not focus, try shooting with p (macro close-up) (A73) in the focus mode, or Close-up (A49) scene mode. AF-assist Illuminator In dark places, the AF-assist illuminator (A109) may light when the shutter-release button is pressed halfway. 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.

More Information See “Focusing on Subject” (A84) for more information. 33 Step 5 Play Back Images 1 Press the c (playback) button. • When you switch from shooting mode to playback mode, the last image saved will be displayed in full-frame playback mode. c (playback) button Multi selector 2 The Basics of Shooting and Playback Use the multi selector to view previous or next images. • • • • To view previous images: H or J To view next images: I or K Images can also be selected by rotating the multi selector.

To play back images that are saved in the internal 15/05/2012 0004.JPG memory, remove the memory card. C is displayed in brackets, before “Current image number/total number of images” on the playback screen. 15:30 4/ 132 Current image number/ Total number of images • To return to shooting mode, press the c button again, or press the shutter-release button, or b (e movie-record) button. C Viewing Pictures 34 • Press the x button to switch between using the monitor and viewfinder display (A16). • Press the s button to switch between showing and hiding the photo information or shooting information that is displayed on the monitor (A15). • Pictures taken using face detection (A85) or pet detection (A52) will be rotated automatically when displayed in full-frame playback mode according to the orientation of the face.



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