



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON COOLPIX P90. You'll find the answers to all your questions on the NIKON COOLPIX P90 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 P90
User guide NIKON COOLPIX P90
Operating instructions NIKON COOLPIX P90
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Nikon

DIGITAL CAMERA

COOLPIX P90

User's Manual



En



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<http://yourpdfguides.com/dref/2184536>

Manual abstract:

· PictBridge is a trademark. @@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. 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 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 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 battery. 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. 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. ii For Your Safety Observe caution when handling the battery The battery may leak 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 AC adapter, be sure it is unplugged.

· Use only a Rechargeable Li-ion Battery EN-EL5 (supplied). Charge the battery by inserting it in a Battery Charger MH-61 (supplied). · 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 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 battery charger 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 flames. 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 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.

iii For Your Safety Use appropriate cables When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose, to maintain compliance with product regulations. Handle moving parts with care Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts. CD-ROMs The CD-ROMs supplied with this device should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment. Observe caution when using the flash Using the flash close to your subject's eyes could cause temporary visual impairment.

Particular care should be observed if photographing infants, when the flash should be no less than 1 m (3 ft. 4 in.) from the subject. Do not operate the flash with the flash window touching a person or object Failure to observe this precaution could result in burns or fire. Avoid contact with liquid crystal Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Turn the power off when using inside an airplane or the hospital Turn the power off while inside the airplane during take off or landing. Follow the instructions of the hospital when using while in a hospital. The electromagnetic waves given out by this camera may disrupt the electronic systems of the airplane or the instruments of the hospital. iv Notices Notice for Customers in the U.S.A. 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 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. COOLPIX P90 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.



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Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules. 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 v Notices 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. Notice for customers in Europe 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.

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. 176 x Introduction About This Manual Thank you for your purchase of a Nikon COOLPIX P90 digital camera. This manual was written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it where all those who use the product will read it. Symbols and Conventions To make it easier to find the information you need, the following symbols and conventions are used: This icon marks cautions, information that should be read before use, to prevent damage to the camera. This icon marks tips, additional information that may be helpful when using the camera.

Introduction B D C This icon marks notes, information that should be read before using the camera. A This icon indicates that more information is available elsewhere in this manual or in the Quick Start Guide. Notations · A Secure Digital (SD) memory card is referred to as a "memory card". · 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 in a computer monitor are indicated in bold text. Screen Samples In this manual, images are sometimes omitted from monitor and electronic viewfinder display samples so that monitor indicators can be more clearly shown. Illustrations and Screen Display Illustrations and text displays shown in this manual may differ from actual display. C Memory Cards Pictures taken with this camera can be stored in the camera's internal memory or on removable memory cards. If a memory card is inserted, all new pictures will be stored on the memory card and delete, playback, and format operations will apply only to the pictures on the memory card.

The memory card must be removed before the internal memory can be formatted or used to store pictures to, or delete, or view pictures.



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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.** 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 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.

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Do not use this product for the purpose of making illegal copies or to infringe copyright laws. *Introduction 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 welcome screen (A137). Care should be taken to avoid injury or damage to property when physically destroying data storage devices. **3 Parts of the Camera** *The Camera Body* Built-in flash raised 3 1 2 *Introduction* 6 7 8 4 5 9 1 2 3 4 5 6 7 8 9 10 11 12 13 10 Shutter-release button...

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.....27 f : Wide ...

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.....27 g : Tele ..

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14 12 Self-timer lamp.....
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14 Diopter adjustment control.....

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.. 18, 22 16 Memory card slot ...

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...22 17 Battery latch.....

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..... 18, 19 18 Battery chamber..

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..18 5 Parts of the Camera Changing the Angle of the Monitor The angle of the monitor can be lowered down to 45° or raised upward to 90°. This is convenient when taking pictures with the camera held at high or low positions. Introduction B Notes on Monitor · Do not apply excessive force when changing the angle of the monitor.



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· The monitor cannot be moved horizontally. · Put the monitor back in the original position when using in normal situations. 6 Parts of the Camera Raising and Lowering the Built-in Flash Press the m (flash pop-up) button to raise the built-in flash. · When not using the built-in flash, gently push the flash down until it clicks shut. Introduction Attaching the Camera Strap and Lens Cap Attach the lens cap to the strap, and then attach the strap to the camera (at two places).

B Lens Cap · Remove the lens cap before you shoot a picture. · At times when you will not be 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. 7 Parts of the Camera The Monitor The following indicators may appear in the monitor during shooting and playback (actual display varies with current camera settings). See page 15 for details on changing the monitor display.
Introduction Shooting 34 33 32 31 30 29 24 23 21 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Shooting mode*

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. 24, 40, 52, 56, 60, 81 Focus mode....

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36 Zoom indicator

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..82 2 1 35 28 27 26 25 4 3 6 5 8 9 11 15 7 10 12 13 14 1/125 F2.8 999 16 a 999 9999 17 22 20 19 b 1m00s 1m00s 18 18 19 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 (a) Number of exposures remaining (still pictures)..

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..... 24 (b) Movie length...

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81 Internal memory indicator.....

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.....121 Continuous shooting mode....

....58, 118 High-speed mode

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... 58 Pre-shooting cache..
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...58, 59 8 * Differs according to the current shooting mode. Refer to the sections on each mode for details.
Parts of the Camera Introduction Playback 1 17 16 15 14 13 999/ 999 23 4 5 18 15/05/2009 12:00 9999.JPG 6 7 9 10 11 12 999/ 999 9999/9999 1m00s
1m00s 8 a b 1 2 3 4 5 6 7 8 9 Date of recording....

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..... 20 Time of recording ...

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...108 *Movie options** .

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82 (a) *Current frame number/ total number of frames*.....

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..... 77, 78 15 *Black border indicator*

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..... 79 16 *D-Lighting icon* ...

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.. 76 17 *Quick retouch icon*...

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75 18 File number and type

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.... 156 * Differs according to the selected option.

9 Basic Operations The Mode Dial Align the mode icon with the mark next to the mode dial. Introduction A Auto (A24) Choose this simple mode, an automatic, "point-and-shoot" mode recommended for firsttime users of digital cameras. A, B, C, D (A60) Choose these modes for greater control over shutter speed and aperture. E, F User Setting (A67) Save the settings made in shooting modes A, B, C and D. Once the settings are saved, you can shoot with the settings that are more frequently used by just changing over to this mode. d Sport Continuous (A56) Continuous shooting of pictures are done at high speeds when the shutterrelease button is pressed down fully. y Scene (A40) Choose this mode for automatic adjustment of settings to suit the selected subject type, or use the voice recording option to record sound only. D Movie (A81) Choose this mode to shoot movies. x Scene Auto Selector (A52) By simply framing a picture, the camera automatically selects the optimum scene mode for simpler shooting. 10 Basic Operations The Command Dial You can rotate the command dial to select items from a menu screen or to choose and configure any of the following functions.

Introduction For Shooting Mode Programmed auto (mode dial set to A) Shutter-priority auto (mode dial set to B) Aperture-priority auto (mode dial set to C) Manual (mode dial set to D) Use Description Change the flexible program Adjust shutter speed Adjust aperture Adjust shutter speed or aperture (press the multi selector K to select a different option) A 62 63 64 65 For Playback Mode Full-frame playback or thumbnail playback Calendar display Playback zoom Movie/Audio playback Use Description Choose a picture Choose a date Change the zoom ratio Advance/Rewind A 30, 71 72 73 86, 90 11 Basic Operations The Multi Selector This section describes standard uses of the multi selector to select modes, select menu options, and to apply selections. Introduction For Shooting Display m (flash mode) (A32) menu or choose the option above Display o (exposure compensation) Display n (A39) guide (self-timer/smile timer/blink proof) (A35, 54) menu Apply selection Display D (focus mode) (A36) menu or choose the option below Flash mode For Playback Choose the previous picture 15/05/2009 15:30 0004.JPG 4 4 Choose the next picture For the Menu Screen Choose the option above Display sub-menu or apply selection Return display to the previous screen Apply selection or display sub-menu Shooting menu Image quality Image size Optimize image White balance ISO sensitivity Metering Choose the option below C 12 Note on the Multi Selector In this manual, up, down, left, and right presses of the multi selector may be indicated with H, I, J and K. Basic Operations The d Button Press the d button to display the menu and to select options for the menu items. · Use the multi selector to navigate the menus (A12). · Menu items can also be chosen by rotating the command dial. · Choose the tabs on the left to display the options for each menu item. · Press the d button again to exit the menu. Displayed when the menu contains two or more pages · Top tab: Display the menus for the mode Shooting menu selected by the mode dial Image quality · Middle tab: Image size Display the playback menu Optimize image White balance · Bottom tab: ISO sensitivity Display the setup menu Metering Displayed when there are following menu options The selected option Displayed when there are previous menu options Shooting menu Continuous Auto bracketing AF area mode Autofocus mode Flash exp. comp. Noise reduction Auto bracketing ± 0.3 ± 0.7 ± 1.0 Off Introduction Press the k button or the multi selector K to proceed to the next set of options. Press the k button or the multi selector K to apply the selection.



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Switching Between Tabs Shooting menu Image quality Image size Optimize image White balance ISO sensitivity Metering Shooting menu Image quality Image size Optimize image White balance ISO sensitivity Metering Set up Welcome screen Date Monitor settings Date imprint Vibration reduction Motion detection Press the multi selector J to highlight the tab. Press the multi selector HI to choose another tab, and press either the k button or K. The chosen menu is displayed. 13 Basic Operations Help Displays Rotate the zoom control to g (j) when M is displayed at the bottom of the menu screen to view a description of the currently selected menu option. To return to the original menu, rotate the zoom control to g (j) again.

White balance For accurate color reproduction, choose a setting that matches the light source. Introduction Back The x (monitor) Button Press the x (monitor) button to switch between the monitor or electronic viewfinder. Switch to the one that suits the shooting conditions. For example, use the electronic viewfinder in bright locations when it is difficult to see the monitor. Monitor Electronic viewfinder 1/125 F2.8 16 1/125 F2.8 16 1/125 F2.8 16 B Diopter Adjustment of Electronic Viewfinder Diopter adjustment control When the diopter for the electronic viewfinder is out of focus and the display is difficult to see, adjust the diopter with the diopter adjustment control. While looking into the viewfinder, rotate the diopter adjustment control until the display is clearly visible. Take care not to scratch your eye with your fingertips or nails when rotating the diopter adjustment control.

14 Basic Operations The s (display) Button To switch between the information displayed on the monitor during shooting and playback, press the s button. Introduction For Shooting 1/125 F2.8 16 1/125 F2.8 16 Display information Display the picture and the shooting data. Framing grids1 Display a boxed guide for framing. Information hidden Display the picture only. For Playback 15/05/2009 15:30 0004.JPG 100NIKON 0004.JPG P 1/125 F2.8 ISO 4 4 4 +1.

0 64 4 Display photo information Display the picture taken and the photo information. Display shooting data (except for movies) Display highlight2, histogram3 and shooting data4. Information hidden Display only the taken picture. 1 Available only when mode dial is set to A, B, C, D, E or F. 2 The brightest portions of the image (portions that are highlighted) will blink.

Use highlights as a guide when setting exposure. 3 A graph showing tone distribution. 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. 4 The shooting data displayed includes the folder name, file name, shooting mode used (A, B, C or D), shutter speed, aperture, exposure compensation, ISO sensitivity, and the current file number/ total number of exposures.

A is displayed when the shooting mode A, y, x, d or A is chosen. 15 First Steps Charging the Battery Charge the Rechargeable Li-ion Battery EN-EL5 (supplied) using the Battery Charger MH-61 (supplied). 1 First Steps Connect the power cable in the order of 1-2. · The CHARGE lamp will light. 2 Insert the battery into the battery charger by sliding the battery forward 1, and press down until it locks into place 2. · CHARGE lamp starts blinking when charging starts. · Charging is complete when the lamp stops blinking. · About two hours are required to charge a fully exhausted battery. The following chart explains CHARGE lamp status. CHARGE lamp Blinks On Battery charging.

Battery fully charged. · The battery is not inserted correctly. Remove the battery and reinsert it into the battery charger so that the battery is lying flat. · The temperature is not suitable for usage. Use the charger in a room with a surrounding temperature range of 5 to 35°C (41 to 95°F) to charge the battery. · The battery is faulty. Unplug the charger immediately and stop charging the battery. Bring the battery and charger to a Nikon authorized service representative for inspection. Description Flickers 16 Charging the Battery 3 Remove the battery and unplug the charger. First Steps B Notes on the Battery Charger · The supplied battery charger is for use only with a Rechargeable Li-ion Battery EN-EL5.

Do not use with incompatible batteries. · Be sure to read and follow the warnings and cautions of "For Your Safety" (Aii) thoroughly before using the battery charger. B Notes on the Battery · Be sure to read and follow the warnings and cautions of "For Your Safety" (Aii) thoroughly before using the battery. · Be sure to read and follow the warnings for "The Battery" (A159) of the section "Caring for the Camera" thoroughly before using the battery. · If the battery will not be used for an extended period, recharge it at least once every six months and run it flat before returning it to storage.

C Note on AC Power Supply To power the camera continuously for extended periods, use the AC Adapter EH-62A (available separately from Nikon) (A155). Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera. 17 Inserting the Battery Insert a Rechargeable Li-ion Battery EN-EL5 (supplied) into the camera. · Charge the battery before first use or when the battery is running low (A16).

1 First Steps Open the battery-chamber/memory card slot cover. 2 Insert the battery. · Confirm that the positive (+) and negative (-) terminals are oriented correctly, as shown on the label at the entrance of the battery chamber, and insert the battery. · Use the battery to push the orange battery latch in the direction indicated by the arrow 1 and fully insert the battery 2. When the battery is fully inserted, the battery latch will lock it in place. B Inserting the Battery Correctly Inserting the battery upside down or backwards could damage the camera. Be sure to confirm that the battery is in the correct orientation. 3 Close the battery-chamber/memory card slot cover. · Close the battery-chamber/memory card slot cover 1, and slide the cover latch to the Z position 2. 18 Inserting the Battery Removing the Battery Turn the camera off and confirm that the power-on lamp and the monitor are off before opening the battery-chamber/memory card slot cover.

To eject the battery, open the battery-chamber/ memory card slot cover and slide the orange battery latch in the direction shown 1. The battery can then be removed by hand 2. · Note that the battery may become hot during use; observe due caution when removing the battery. First Steps Turning On and Off the Camera Remove the lens cap before turning on the camera.



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Press the power switch to turn on the camera. The power-on lamp (green) will light for a moment and the monitor will turn on. Pressing the power switch when the power-on lamp (green) or the monitor is lighted up will turn off the camera. · When the camera is off, holding down the c button will turn the camera on in playback mode (A30). · If Lens error is displayed, check that the lens cap has been removed and turn the camera on again. D Auto Power Off while in Shooting Mode (Standby Mode) If no operations are performed for about a minute (default setting), the monitor will turn off automatically and the camera will enter standby mode.

If no operations are performed for another three minutes, the camera will turn off automatically (auto off function). If the monitor is off in standby mode, press the power switch or the shutter-release button to reactivate it. · The time allowed to elapse before the camera enters standby mode can be changed from the Auto off option (A146) in the setup menu (A135). 19 Setting Display Language, Date and Time A language-selection dialog is displayed the first time the camera is turned on. 1 First Steps Press the power switch to turn on the camera.

· The power-on lamp (green) will light for a moment and the monitor will turn on. · Remove the lens cap. 2 Use the multi selector to choose the desired language and press the k button. · For information on using the multi selector, see "The Multi Selector" (A12) 3 Choose Yes and press the k button. · If No is selected, the date and time will not be set.

Date Set time and date? No Yes 4 Press the multi selector J or K to select your home time zone (A140) and press the k button. London Casablanca Back D Daylight Saving Time London Casablanca If daylight saving time is in effect, press the multi selector H in the time zone selection screen displayed in step 4 to turn on the daylight saving time option. When the daylight saving time option is enabled, W is displayed at the top of the monitor. To turn off the daylight saving time option, press I. Back 20 Setting Display Language, Date and Time 5 Edit the date. · Press H or I to edit the highlighted item. · Press K to move the highlight in the following order. D (day) M (month) Y (year) hour minute DMY (the order in which the day, month, and year are displayed) · Press J to return to the previous cursor. Date D 01 00 M 01 Y 2009 00 Edit First Steps 6 Choose the order in which the day, month and year are displayed. Date D 15 15 M 05 Y 2009 10 Edit 7 Check that the lens cap is removed, and press the k button.

· The settings are applied and monitor display reverts to shooting mode. · The lens will extend at this time. D Changing the Date and Time · Select Date from Date (A138) in the setup menu (A135) to change the current date and time, and follow the procedure described in step 5 above. · Select Time zone from Date in the setup menu to change the time zone and daylight saving time settings (A138). 21 Inserting Memory Cards Image, sound, and movie files are stored in the camera's internal memory (approx. 47 MB) or on removable memory cards (available separately) (A155). If a memory card is inserted in the camera, data is automatically stored on the memory card and data recorded to the memory card can be played back, deleted, or transferred. Remove the memory card to store data in the internal memory, or play back, delete, or transfer data from the internal memory. First Steps 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 battery-chamber/memory card slot cover.

2 Insert the memory card. · Slide the memory card in correctly as shown on the right, until it clicks into place. · Close the battery-chamber/memory card slot cover after inserting the memory card. 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.

Removing Memory Cards Before removing memory cards, turn the camera off and confirm that the power-on lamp and the monitor are off. Open the battery-chamber/memory card slot cover and press the card in 1 gently to partially eject the card. The card can then be removed by hand 2. 22 Inserting Memory Cards B Formatting a Memory Card If the message at the right is displayed when the camera is turned Card is not formatted. on, the memory card must be formatted before use.

Note that Format card? formatting (A147) permanently deletes all data on the memory card. Be sure to make copies of any pictures you wish to No keep before formatting the memory card. Yes Use the multi selector to choose Yes and press the k button. When the confirmation dialog is displayed, choose Format and press the k button to start formatting. · Do not turn the camera off, or open the battery-chamber/memory card slot cover until formatting is complete. · When you insert memory cards used in other devices into this camera for the first time, be sure to format them (A147) with this camera. First Steps B The Write Protect Switch Write protect switch Memory cards are equipped with a write protect switch. When this switch is in the "lock" position, data cannot be written to, or deleted from, the memory card. If the switch is in the "lock" position, unlock it by sliding the switch to the "write" position to record or delete pictures, or to format the memory card. B Memory Cards · Use only Secure Digital memory cards.

· Do not perform the following operations during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card: - Eject the memory card - Remove the battery - Turn off the camera - Disconnect the AC adapter · Do not use a computer to format the memory card. · Do not disassemble or modify. · Do not drop, bend, or expose to water or strong physical shocks. · Do not touch the metal terminals with your fingers or metal objects. · Do not affix labels or stickers to the memory card. · Do not leave in direct sunlight, closed vehicles or areas exposed to high temperatures. · Do not expose to humidity, dust, or to corrosive gases. 23 Basic Photography and Playback: Auto Mode Step 1 Turn the Camera On and Select A (Auto) Mode This section describes how to take pictures in A (auto) mode, an automatic, "point-and-shoot" mode recommended for first-time users of digital cameras. 1 Rotate the mode dial to A.



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Basic Photography and Playback: Auto Mode 2 Remove the lens cap and press the power switch. · The power will be turned on, and the lens will extend. · The power-on lamp (green) will light for a moment and the monitor will turn on. 3 Check the battery level and number of exposures remaining in the monitor.

Battery Level Monitor NO INDICATOR B N Battery exhausted.

Description Battery fully charged. Battery level low; prepare to charge or replace the battery. Cannot shoot. Recharge or replace with a fully-charged battery. Battery level indicator 1/125 F2.

8 16 Number of exposures remaining Number of Exposures Remaining The number of exposures remaining will be displayed. 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 (A109). 24 Step 1 Turn the Camera On and Select A (Auto) Mode Indicators Displayed in A (Auto) Mode Shooting mode A displayed in A (auto) mode. Vibration reduction icon Reduces the effects of camera shake. Shutter speed (A61) 1/125 F2.8 16 Basic Photography and Playback: Auto Mode Aperture (A61) Internal memory indicator Pictures will be recorded to internal memory. When a memory card is inserted, C is not displayed and pictures will be recorded to the memory card. Image Quality and Image Size The combination of image size and image quality (compression) is displayed. The default settings are W (Normal) for image quality and G (4000 × 3000) for image size. D Note on the Flash When the built-in flash is lowered, the flash setting is fixed to off and W appears at the top of the monitor.

In situations where flash is needed, such as in dark locations or when the subject is backlit, be sure to raise the built-in flash (A33). D Functions Available in A (Auto) Mode In A (auto) mode, focus mode (A36) and exposure compensation (A39) can be applied and pictures can be taken using the flash mode (A32) and self-timer (A35). Pressing the d button in A (auto) mode allows you to specify settings for the shooting menu options Image quality (A107) and Image size (A108). D Vibration Reduction When On (default setting) is chosen for Vibration reduction (A143), the camera effectively reduces camera shake that commonly occurs when shooting with zoom applied or at slow shutter speeds. Set Vibration reduction to Off when using a tripod to stabilize the camera during shooting. 25 Step 2 Frame a Picture 1 Ready the camera. · Hold the camera steadily in both hands. · Keep your fingers, hair, strap and other objects away from the lens, flash, AF-assist illuminator, microphone and speaker. Basic Photography and Playback: Auto Mode 2 Frame the picture. · Position the main subject near the center of the monitor.

1/125 F2.8 16 Using the Electronic Viewfinder Use the electronic viewfinder to frame pictures when bright light makes it difficult to see the display in the monitor. Press the x button to switch to the electronic viewfinder (A14). When the diopter for the electronic viewfinder is out of focus, rotate the diopter adjustment control to a position where the display is clearly visible (A14). 26 Step 2 Frame a Picture Using the Zoom Rotate the zoom control to activate optical zoom.

Rotate in the direction of g to zoom in on the subject. Or rotate in the direction of f to have a wider view. Rotating the zoom control all the way in either direction will adjust the zoom quickly, while rotating the control partially will adjust the zoom slowly. A zoom indicator is displayed at the top of the monitor when the zoom control is rotated. Zoom out Zoom in Basic Photography and Playback: Auto Mode Optical zoom Digital zoom Digital Zoom When the camera is already at the maximum optical zoom magnification, rotating the zoom control in the g direction will trigger digital zoom.

The subject can be magnified up to 4× of the maximum optical zoom ratio. Focus will be on the center of the frame and the focus area will not be displayed when digital zoom is in effect. Optical zoom (up to 24×). Digital zoom is in effect. C Digital Zoom and Interpolation Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of picture quality according to the image size (A108) and digital zoom magnification. Interpolation is applied at zoom positions beyond V. When zoom is increased beyond the V position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied. The position of V moves to the right as image size decreases, allowing for confirmation of the zoom positions at which shooting without interpolation is possible at the current image size setting. When the image size is small · By using Digital zoom (A145) in the setup menu (A135), it is possible to restrict the magnification of the digital zoom within a range where images may not deteriorate, or to set the digital zoom so that it will not operate. 27 Step 3 Focus and Shoot 1 Press the shutter-release button halfway.

· The camera focuses on the subject in the center focus area. When the subject is in focus, the focus area will glow green. Basic Photography and Playback: Auto Mode 1/125 F2.8 · When digital zoom is in effect, the focus area is not displayed. When the camera focuses on the subject in the center of the frame, the focus indicator (A8) will glow green. · Focus and exposure remain locked while the shutter-release button is pressed halfway. · When the shutter-release button is pressed halfway and the camera is unable to focus, the AF-area or focus indicator blinks red. Change the composition and press the shutter-release button halfway again. 2 Press the shutter-release button the rest of the way down. · The shutter will be released and the picture will be recorded to the memory card or internal memory.

D Pressing the Shutter-Release Button Halfway/All the Way Down The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. Focus and exposure lock while the shutter-release button is held in this position. To release the shutter and take a picture, press the shutter-release button the rest of the way down. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred pictures.

Press the shutter-release button halfway to lock focus and exposure. Press the shutter-release button the rest of the way down to shoot. 28 Step 3 Focus and Shoot B During Recording While pictures are being recorded, the number of exposures remaining display will blink. Do not open the battery-chamber/memory card slot cover while pictures are being recorded.



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Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or 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 active focus area, or focus indicator, glows green: · Subject is very dark · Objects of sharply differing brightness are included in the scene (e.g. the sun is behind the subject and is in deep shadow) · No contrast between the subject and surroundings (e.g. when the subject is standing in front of a white wall, wearing a white shirt) · Several objects are at different distances from the camera (e.g. the subject is inside a cage) · Subject is moving rapidly In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject and use focus lock. 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. **Basic Photography and Playback: Auto Mode D Focus Lock** Use focus lock to focus on off-center subjects when Center is selected for AF area mode.

· Be sure that the distance between the camera and the subject does not change. · When the shutter-release button is pressed halfway, exposure is locked. **1/125 F2.8 16 1/125 F2.8 1/125 F2.8** Frame the subject to be focused on using the camera Press the shutter-release button halfway. Confirm that Continue holding Press the the focus area is down the shutter-release button halfway release and recompose the picture. rest of the way down to shoot. **D AF-assist illuminator** If the subject is poorly lit, the AF-assist illuminator (A145) may light by pressing the shutter-release button halfway. **29 Step 4 Viewing and Deleting Pictures Viewing Pictures (Playback Mode)** Press the c button. · The last picture shot will be displayed in full-frame playback mode. · Press the multi selector H, I, J or K to view additional pictures. Continue holding down the button to fast forward pictures. Pictures can also be chosen by rotating the command dial.

· Pictures may be displayed briefly at low resolution while being read from the memory card or internal memory. · Press the c button or the shutter-release button to switch to shooting mode. · When C is displayed, pictures stored in the internal memory 15/05/2009 15:30 will be displayed. When memory card is inserted, C is not 0004.JPG displayed and pictures stored on the memory card will be displayed.

Basic Photography and Playback: Auto Mode 4 4 Internal memory indicator Deleting Pictures 1 Press the l button to delete the picture currently displayed in the monitor. **2** Use the multi selector to choose Yes and press the k button. · To exit without deleting the picture, choose No and press the k button. **Erase 1 image? Done No Yes 30 Step 4 Viewing and Deleting Pictures C Options Available in Playback Mode Option Use Description** Enlarge the view of the picture currently displayed in the monitor, up to about 10x. Press the k button to return to full-frame playback. Display images by 4, 9 or 16 picture thumbnails or the calendar. Hide or show the shooting information and photo information in monitor. Switch between the monitor and electronic viewfinder display. Record or play back voice memos up to 20 seconds in length. Press the c button or the shutter-release button to change back to the last chosen shooting mode.

A 73 The following options are available in full-frame playback mode. Playback zoom Thumbnail display/ Calendar display Hide or show photo information Switch between displays Record/play voice memos g (i) f (h) s x k c **71 Basic Photography and Playback: Auto Mode 15 14 80** Switch to shooting mode **30 C** Pressing the c Button to Turn on the Camera When the camera is off, holding down the c button will turn the camera on in playback mode. The lens will not extend. **Viewing Pictures** · Pictures stored in the internal memory can only be viewed if no memory card is inserted. · Pictures that were shot using face priority (A123) will be rotated automatically when displayed in full-frame playback mode according to the orientation of the face. · If the monitor is off in standby mode due to the camera's auto off function, press the c button to reactivate it (A146). **C Deleting the Last Picture Taken While in Shooting Mode Erase 1 image? In shooting mode, press the l button to delete the last picture shot. No Yes D Deleting Multiple Pictures Choose Delete (A132) from the playback menu (A129) to delete multiple pictures. 31 Using the Flash** In dark locations or when the subject is backlit, you can shoot pictures with flash by raising the built-in flash. The flash has a range of about 0.

5 to 8.0 m (1 ft. 8 in. to 26 ft.) for wide, and about 1.

7 to 5.0 m (5 ft. 7 in. to 16 ft.) for tele (when ISO sensitivity is set to Auto).

Change the flash setting according to each situation. **U Auto Flash** fires automatically when lighting is poor. **V W X Auto with red-eye reduction** Reduces "red-eye" in portraits (A34). **Off Flash** will not fire even when lighting is poor. **Fill flash** Flash fires when a picture is taken. Use to "fill-in" (illuminate) shadows and backlit subjects. **Y Slow sync** Fill flash is combined with slow shutter speed. Flash illuminates main subject; slow shutter speeds are used to capture background at night or under dim light. **Z Rear-curtain sync** Flash fires just before shutter closes, creating the effect of a stream of light behind moving subjects. **Basic Photography and Playback: Auto Mode 32 Using the Flash Setting the Flash Mode 1** Press the m (flash pop-up) button.

The built-in flash will be raised. · When the built-in flash is lowered, the flash mode will be fixed to W (off). **Basic Photography and Playback: Auto Mode 2** Press m (flash mode). · The flash mode menu is displayed. **3** Use the multi selector to choose the desired mode and press the k button. · The icon for the selected flash mode is displayed at the top of the monitor. · When U (auto) is applied, D is only displayed for a few seconds even if monitor indicators (A15) are turned on. · If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. **Flash mode 1/125 F2.8 16 B Lowering the Built-in Flash** When not using the built-in flash, gently push to lower the flash until it clicks shut (A7).

33 Using the Flash B Shooting When Lighting is Poor and When the Flash is Disabled (W) · Use of a tripod is recommended to stabilize the camera during shooting and avoid the effects of camera shake. Set Vibration reduction (A143) to Off when using a tripod to stabilize the camera during shooting.



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· The E indicator is displayed when the camera automatically increases sensitivity. Pictures taken when E is displayed may be slightly mottled. B C Basic Photography and Playback: Auto Mode Note on Using the Flash When using the flash, reflections from dust particles in the air may appear as bright spots in pictures.

To reduce these reflections, set the flash mode to W (Off), or shoot pictures with the built-in flash lowered. The Flash Indicator The flash indicator shows the flash status when the shutter-release button is pressed halfway down. · On: Flash will fire when picture is shot. · Blinks: Flash is charging. Wait a few seconds and try again.

· Off: Flash will not fire when picture is shot. C The Flash Mode Setting · The default flash mode setting varies with shooting mode. - A (auto) mode: U (auto) - A, B, C, D mode: U (auto) - Scene mode: setting varies for different scene modes (A41 to 47). - x (scene auto selector) mode: U (auto) the camera automatically chooses the optimum flash mode setting for the scene mode it has selected (A32). - d (sport continuous) mode: W (off) - Time-lapse movie: U (Auto) · The flash mode setting V (auto with red-eye reduction) applied in A (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time A (auto) mode is selected. · For A, B, C and D shooting modes, the setting for flash mode will be stored in the camera's memory even after the camera is turned off. C Red-eye Reduction This camera uses Advanced Red-eye Reduction ("In-Camera Red-Eye Fix"). The flash fires repeatedly at low intensity before the main flash, reducing the red-eye effect. The camera then analyzes the picture; if red-eye is detected, the affected area will be processed to further reduce red-eye before the picture is saved. Note that because there is a slight lag between the shutter-release button being pressed and the picture being shot, this mode is not recommended when a quick shutter response is required.

The time before the next picture can be shot also increases slightly. Advanced red-eye reduction may not produce the desired results in all situations. In extremely rare instances, areas not subject to red-eye may be affected by advanced red-eye reduction processing; in these cases, choose another mode and try again. 34 Taking Pictures with the Self-Timer The self-timer function is useful when you wish to have your picture taken, such as when taking memorial pictures, and for reducing the effects of camera shake that occurs when the shutter-release button is pressed. When using the self-timer, use of a tripod is recommended. Turn Vibration reduction (A143) off when using a tripod. 1 Press n (self-timer). · The self-timer menu is displayed. Basic Photography and Playback: Auto Mode 2 Use the multi selector to choose 10s or 2s and press the k button. · · · · 10s (ten seconds): suitable for memorial portraits.

2s (two seconds): suitable for preventing camera shake. The mode selected for self-timer is displayed. If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. Self-timer 3 Frame the picture and press the shutter-release button halfway. · Focus and exposure will be set.

1/125 F2.8 4 Press the shutter-release button the rest of the way down. The self-timer starts, and the number of seconds remaining until the shutter is released is displayed in the monitor. The self-timer lamp will blink. The lamp stops blinking one second before the picture is taken and remains lit until the shutter is released.

· When the shutter is released, the self-timer turns OFF. · To stop the timer before a picture is taken, press the shutter-release button again. 9 1/125 F2.8 D Note on a (smile timer) and y (blink proof) If a or y is chosen, the shutter is automatically released (A54) when smiling faces are detected using face priority. 35 Using Focus Mode Choose a focus mode according to the subject and composition. A Autofocus Camera automatically adjusts focus according to distance to subject. Use when the distance from subject to lens is 50 cm (1 ft. 8 in.) or more, or 1.7 m (5.

6 ft.) or more when camera is zoomed all the way out. D Macro close-up Use for close-ups of flowers or small objects. The closest shooting distance will vary according to the magnification of the zoom. When the zoom indicator is positioned where the F mark glows green, the camera can focus on subjects as close as 10 cm (4 in.) from the lens. At the K zoom position, the camera can focus on subjects as close as 1 cm (0.4 in.) from the lens. B Infinity Use when shooting distant scenes through foreground objects such as windows or when shooting landscapes.

When the shutter-release button is pressed halfway, the focus area or focus indicator (A8) always glows green. However, the camera may not be able to focus on nearby objects. The flash mode is set to W (off). E Manual focus The focus can be adjusted for any subject that is a distance of 1 cm (0.4 in.

) to infinity from the lens (A38). Basic Photography and Playback: Auto Mode Focus Modes Available in Each Shooting Mode A A (Autofocus) D (Macro close-up) B (Infinity) E (Manual) *1 *2 *3 A, B, C, D, E, F w*1 w w y x d w*I D w*I w w w*I w w *2 *3 w w w Default setting for each shooting mode. Available focus modes and default setting varies between different scene modes (A41 to 51). The camera sets the focus mode according to the scene mode that it has automatically determined (A52). C 36 The Focus Mode Setting For A, B, C and D shooting modes, the changed setting for focus mode will be stored in the camera's memory even after the camera is turned off.

Using Focus Mode Setting the Focus Mode 1 Press p (focus mode). · The focus mode menu is displayed. Focus 2 Use the multi selector to choose the focus mode and press the k button. · The mode selected for focus mode is displayed. · When A (autofocus) is applied, P is only displayed for a few seconds even if monitor indicators (A15) are turned on. · If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. Basic Photography and Playback: Auto Mode 1/125 F2.8 16 C Macro Close-up In macro close-up mode, the camera will automatically repeat focusing. The focus will lock by pressing the shutter-release button halfway and exposure will be fixed. However, in A, B, C, D, E and F modes, the setting for Autofocus mode (A125) will take priority and be applied.

C Infinity If you set focus mode to infinity while using A (auto) mode or the A, B, C, D, E and F modes, the focus area will not be displayed on the screen. 37 Using Focus Mode Using Manual Focus 1 Press p (focus mode) to display the focus menu.



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