



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D5000. You'll find the answers to all your questions on the NIKON D5000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D5000
User guide NIKON D5000
Operating instructions NIKON D5000
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Nikon

DIGITAL CAMERA
D5000
User's Manual

En



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Manual abstract:

Digitutor "Digitutor", a series of "watch and learn" manuals in movie form, is available from the following website:

http://www.nikondigitutor.com/index_eng.html Q&A Index Table of Contents 0 ii 0 vi 0 I X Introduction s Basic Photography and Playback x Framing Pictures in the Monitor (Live View) y Recording and Viewing Movies z More on Photography (All Modes) t P, S, A, and M Modes I More on Playback Q Connections o The Playback Menu i The Shooting Menu L Custom Settings g The Setup Menu u The Retouch Menu w Recent Settings / v My Menu n Technical Notes 0 27 0 41 0 49 0 53 0 79 0 115 0 131 0 146 0 148 0 153 0 165 0 174 0 190 0 193 i Q&A Index Find what you're looking for using this "question and answer" index. Camera Displays Question What do these icons mean? How many more shots can I take with this card? How much charge does the battery have left? How do I keep the displays from turning off? How do I display the menus in another language? How do I adjust monitor brightness? Can I display a framing grid in the viewfinder? How do I view more information about a photo? Key phrase The viewfinder Number of exposures remaining Battery level Auto off timers Language LCD brightness Grid display Photo information 0 6 29 28 157 169 166 158 117121 The information display 8, 167 ii Taking Photographs Question Is there a quick and easy way to take snapshots? How do I quickly adjust settings for different scenes? Can I frame photos in the monitor? Can I angle the monitor for easier framing? Can I shoot movies? How do I take pictures for printing at large sizes? How can I get more pictures on the memory card? Can I take pictures with a small file size for e-mail? Can I choose how the camera focuses? Can I choose the focus point? Can I change the composition without refocusing? How do I focus on a subject that is not in a focus area? Can I set the flash to fire automatically when needed? How do I avoid "red-eye"? How do I keep the flash from firing? How do I turn off the light on the front of the camera? How do I shoot a series of photos in quick succession? Can I reduce camera noise in quiet surroundings? How do I take pictures with the self-timer? How do I use the optional remote control? What is exposure? How do I "freeze" motion? How do I suggest motion by blurring moving objects? Can I blur the background to bring out a subject? Can I make photos brighter or darker? How do I create "light trails" behind moving objects? How do I preserve details in shadows and highlights? Can I take photos at preset intervals? How do I focus the viewfinder? How do I keep the camera from beeping? Focus mode Focus point 3D-tracking Focus lock Auto flash Red-eye reduction Auto (flash off) mode Flash off AF-assist illuminator Release mode Self-timer Remote control Exposure Mode S (shutter-priority auto) Mode A (aperturepriority auto) Exposure compensation Long time-exposures Active D-Lighting Interval timer shooting Viewfinder focus Beep 5455 58 57 58 7172 71-72 30 7072 155 6566 6769 80 82 83 90 8687 9495 7677 25 158 Image quality and size 6264 Key phrase Auto modes Scene modes Live view Recording movies 0 2832 3338 4147 45 5051 iii Viewing, Retouching, and Printing Photographs Question How do I view photographs on the camera? How do I delete unwanted photos? Can I zoom in on photos during playback? Can I protect photos from accidental deletion? Can I view photos in an automatic slide show? Can I view photos on HD or standard TVs? How do I copy photos to a computer? How do I print photos? Can I print the date of recording on my photos? How do I order professional prints? Can I create retouched copies of photos? How do I remove "red-eye"? Can I overlay two photos to make a single image? How do I make JPEG copies of RAW (NEF) photos? Can I copy a photo to use as a base for a painting? Can I make stop-motion movies from my photos? Key phrase Playback Deleting photos Playback zoom Protect Slide show Viewing on TV Computer Printing Time stamp Print set (DPOF) Retouch Red-eye correction Image overlay NEF (RAW) processing Color outline Stop-motion movie 0 39, 116 40, 126128 124 125 129 132133 134135 136144 138, 141 143 174189 176 182183 184 186 187188 iv Menus and Settings Question How do I use the menus? How do I get help for a menu or message? Key phrase Using the menus Help Error messages The information display How do I adjust settings? How do I restore default settings? How do I set the camera clock? How do I keep the file number from being reset when I insert a new memory card? How do I reset file numbering to 1? Is there a quick way to access frequently-used settings? Is there a quick way to access recently-used settings? My Menu Recent settings 191 190 The command dial Menus Two-button reset Time zone and date File number sequence 0 1315 13 221 8, 9 1012 145192 78 20, 169 159 Miscellaneous Question What do I do with the eyepiece cap? What memory cards can I use? What lenses can I use? What optional flash units (Speedlights) can I use? What software is available for my camera? What other accessories are available for my camera? How do I clean the camera? Who do I go to for servicing and repairs? Key phrase The DK-5 eyepiece cap Approved memory cards Compatible lenses Optional flash units Accessories Cleaning Servicing 0 67, 77 203 194 198 202 205 205 v Table of Contents Q&A Index

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..... 218 Shooting (P, S, A, M)....

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... 219 Playback ..

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... 220 Miscellaneous.....

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... 220 Error Messages.....

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.. 221 Specifications

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touching the skin or entering the eyes or mouth. A Using the viewfinder diopter control When operating the viewfinder diopter control with your eye to the viewfinder, care should be taken not to put your finger in your eye accidentally. Should you notice smoke or an unusual smell coming from the equipment or AC adapter (available separately), unplug the AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing the battery, take the equipment to a Nikon-authorized service center for inspection. A Do not place the strap around the neck of an A Turn off immediately in the event of malfunction A Observe caution when using the flash A Do not use 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. Failure to observe this precaution could result in injury. A Avoid contact with liquid crystal A Keep out of reach of children xii A Observe proper precautions when handling batteries Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this product: · Use only batteries approved for use in this equipment. · Do not short or disassemble the battery. · Be sure the product is off before replacing the battery. If you are using an AC adapter, be sure it is unplugged. · Do not attempt to insert the battery upside down or backwards. · 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 the battery with metal objects such as necklaces or hairpins.



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· Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains. · When the battery is not in use, attach the terminal cover and store in a cool, dry place. · The battery may be hot immediately after use or when the product has been used on battery power for an extended period. Before removing the battery turn the camera off and allow the battery to cool. · Discontinue use immediately should you notice any changes in the battery, such as discoloration or deformation. A Observe proper precautions when handling the quick 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 charger during thunderstorms. Failure to observe this precaution could result in electric shock.

· Do not damage, modify, or forcibly tug or bend the power cable. Do not place it under heavy objects or expose it to heat or flame. Should the insulation be damaged and the wires become exposed, take the power cable to a Nikon-authorized service representative for inspection. Failure to observe this precaution could result in fire or electric shock. · Do not handle the plug or 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. 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. A Use appropriate cables A CD-ROMs CD-ROMs containing software or manuals 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. xiii Notices · No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission. · Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice. · Nikon will not be held liable for any damages resulting from the use of this product. · While every effort has been made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).

Notices 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. D5000 These limits are designed to provide reasonable protection against harmful CAUTIONS interference in a residential installation.

This Modifications equipment generates, uses, and can radiate The FCC requires the user be notified that any radio frequency energy and, if not installed changes or modifications made to this device and used in accordance with the instructions, that are not expressly approved by Nikon may cause harmful interference to radio Corporation may void the user's authority to communications. However, there is no operate the equipment. guarantee that interference will not occur in a Interface Cables particular installation. If this equipment does Use the interface cables sold or provided by cause harmful interference to radio or Nikon for your equipment. Using other television reception, which can be interface cables may exceed the limits of determined by turning the equipment off Class B Part 15 of the FCC rules. and on, the user is encouraged to try to correct the interference by one or more of the Notice for Customers in the State of California following measures: WARNING: Handling the cord on this product · Reorient or relocate the receiving antenna. may expose you to lead, a chemical known to · Increase the separation between the the State of California to cause birth defects equipment and receiver. or other reproductive harm. Wash hands after · Connect the equipment into an outlet on a handling. circuit different from that to which the Nikon Inc.

, 1300 Walt Whitman Road, Melville, receiver is connected. New York 11747-3064, U.S.A. · Consult the dealer or an experienced Tel.: 631-547-4200 radio/television technician for help. xiv Notices for Customers in Canada CAUTION This Class B digital apparatus complies with Canadian ICES-003. 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. ATTENTION Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. 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. Disposing of Data Storage Devices Please note that deleting images or formatting memory cards or other data storage devices 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 preset manual white balance (0 99). Care should be taken to avoid injury when physically destroying data storage devices. Use Only Nikon Brand Electronic Accessories Nikon cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, AC adapters, and flash accessories) 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.



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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 shown at right 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. xv Notice Concerning Prohibition of Copying or Reproduction Note that simply being in possession of material that has been 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.

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S.A.: <http://www.nikonusa.com/> · For users in Europe and Africa: [\[europe-nikon.com/support\]\(http://www.europe-nikon.com/support\) · 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.](http://www.</p></div><div data-bbox=)

See the following URL for contact information: <http://imaging.nikon.com/> A A xvi Introduction X This chapter covers information you will need to know before using the camera, including the names of camera parts, how to use the camera menus, and how to ready the camera for use. X Overview

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.... Getting to Know the Camera.....

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..... The Viewfinder ...

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The Command Dial.....

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..... The Power Switch...

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..... Camera Menus ...

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... Using Camera Menus..

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..... *Basic Setup*

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Format the Memory Card.....

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..... Adjust Viewfinder Focus.....

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.. 2 3 3 5 6 7 8 10 12 13 14 16 16 17 18 20 22 23 25 1 Overview Thank you for your purchase of a Nikon single-lens reflex (SLR) digital camera. To get the most from your camera, please be sure to read all instructions thoroughly and keep them where they will be read by all who use the product. Symbols and Conventions X To make it easier to find the information you need, the following symbols and conventions are used: D A 0 D This icon marks cautions; information that should be read before use to prevent damage to the camera. This icon marks notes; information that should be read before using the camera. This icon marks references to other pages in this manual. Use Only Nikon Brand Accessories Only Nikon brand accessories certified by Nikon specifically for use with your Nikon digital camera are engineered and proven to operate within its operational and safety requirements. THE USE OF NON-NIKON ACCESSORIES COULD DAMAGE YOUR CAMERA AND MAY VOID YOUR NIKON WARRANTY. D Servicing the Camera and Accessories The camera is a precision device and requires regular servicing.

Nikon recommends that the camera be inspected by the original retailer or a Nikon-authorized service representative once every one to two years, and that it be serviced once every three to five years (note that fees apply to these services). Frequent inspection and servicing are particularly recommended if the camera is used professionally. Any accessories regularly used with the camera, such as lenses or optional flash units, should be included when the camera is inspected or serviced. Camera Settings The explanations in this manual assume that default settings are used. A 2 Getting to Know the Camera Take a few moments to familiarize yourself with camera controls and displays. You may find it helpful to bookmark this section and refer to it as you read through the rest of the manual. The Camera Body 1 2 3 4 5 6 7 8 13 14 15 9 16 25 10 17 18 19 20 23 24 12 11 21 22 X 1 Mode dial...

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 .5 2 Focal plane mark (E)

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 ..61 3 R (information) button.....

.8 Two-button reset button78 4 E (exposure compensation) button

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 .90 N (aperture) button

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84 Flash compensation button

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.....93 5 Shutter-release button.

.....32 6 Power switch..

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.....28 7 AF-assist illuminator

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 ...55 Self-timer lamp ..

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 68 Red-eye reduction lamp

.72 8 9 10 11 12 13 14 15 16 17 Infrared receiver ...

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..... 68 Body cap CPU contacts Built-in flash....

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.... 70 M (flash mode) button

... 70 Y (flash compensation) button..

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... 93 Eyelet for camera strap Microphone ..

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. 51 Connector cover E (self-timer) button

..... 69 Fn (function) button ...

.....163 Mounting index ..



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. 9 Full-frame playback.....
116 Two-button reset button....
78 4 O (delete) button Deleting pictures

40 10 Tripod socket Deleting pictures during 11 Diopter adjustment playback.....

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..... 126 control.

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....25 5 K (playback) button .. 39, 116 12 A (AE-L/AF-L) 6 G (menu) button
13, 145 button

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.....59, 164 L (protect) button....

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..125 13 Command dial...

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.10 14 a (live view) button Taking photographs....

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. 41 Shooting movies.....

..... 49 15 Memory card slot cover..

.... 22 16 Multi selector .

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..... 14 17 J (OK) button.

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.. 14 18 Memory card access lamp

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....22, 32 19 Speaker 20 Power connector cover for optional power connector .

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204 21 Battery-chamber cover latch

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... 17 22 Battery-chamber cover..

..... 17 4 The Mode Dial The camera offers a choice of the following shooting modes: P, S, A, and M Modes Select these modes for full control over camera settings. P--Programmed auto (0 81): Camera chooses A--Aperture-priority auto (0 83): Adjust shutter speed and aperture, user controls aperture to soften background details or other settings. increase depth-of-field to bring both main subject and background into focus. S--Shutter-priority auto (0 82): Choose fast M--Manual (0 84): Match shutter speed and shutter speeds to freeze action, slow shutter aperture to your creative intent.

speeds to suggest motion by blurring moving objects. X Auto Modes Select these modes for simple, point-andshoot photography. i Auto (0 28): Camera adjusts settings automatically to produce optimal results with "point-andshoot" simplicity. Recommended for first-time users of digital cameras. j Auto (flash off) (0 28): As above, except that the flash will not fire even when lighting is poor. Scene Modes Selecting a scene mode automatically optimizes settings to suit the selected scene. k Portrait (0 34): Shoot portraits with back- m Sports (0 34): Freeze motion for dynamic ground in soft focus. sports shots. l Landscape (0 34): Preserve details in landscape shots. n Close up (0 35): Take vivid close-ups of flowers, insects, and other small objects.

p Child (0 34): Create portraits of children. o Night portrait (0 35): Shoot portraits Clothing and background details are vividly against a dimly-lit backdrop. rendered while skin tones remain soft and h (other scenes; 0 33): Other scenes can natural. be selected with the command dial. 5 The Viewfinder 1 5 X 6 7 2 3 4 8 9 10 11 12 13 14 15 16 17 18 19 20 1 Framing grid (displayed when 12 Number of exposures On is selected for Custom remaining .

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..29 Setting d2)..

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..... 158 Number of shots remaining before memory buffer 2 Reference circle for centerfills...

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....66 weighted metering .

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88 White balance recording 3 "No memory card" indicator indicator

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.99 4 Battery indicator

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28 Exposure compensation value 5 Focus points

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.....90 6 Focus indicator

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.31, 61 Flash compensation 7 Autoexposure (AE) lock value.....

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.....92 indicator.

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89 Capture mode indicator.....134 8 Shutter speed
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...82, 84 ISO sensitivity
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...74 9 Aperture (f-number) ..
....83, 84 10 Battery indicator
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... 28 11 Bracketing indicator..
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.... 103 13 "K" (appears when memory remains for over 1000 exposures)
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. 29 14 Flash-ready indicator
.. 32 15 Flexible program indicator.....
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... 81 16 Exposure indicator.....
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.... 85 Exposure compensation display .
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... 90 17 Flash compensation indicator.....
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.... 92 18 Exposure compensation indicator.....
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..... 90 19 Auto ISO sensitivity indicator.....
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.... 149 20 Warning indicator

..... 221 D No Battery When the battery is exhausted or no battery is inserted, the display in the viewfinder will dim.

This is normal and does not indicate a malfunction. The viewfinder display will return to normal when a fully-charged battery is inserted. The Viewfinder Display Owing to the characteristics of this type of viewfinder display, you may notice fine lines radiating outward from the selected focus point. This is normal and does not indicate a malfunction. The Viewfinder The response time and brightness of the viewfinder may vary with temperature.

D D 6 The Monitor The monitor opens outwards 180° and can be rotated 180° left or 90° right as shown below, allowing the monitor to be angled for high- and low-angle photography or rotated to face the user for self-portraits (0 45). X 180° 90° 180° Shooting Position In other situations, the monitor can be stowed on the camera body by opening it outward and rotating it 180° left before folding it back onto the camera body. This position is recommended for most shooting and playback. Storage Position To protect the monitor when the camera is not in use, fold it back onto the camera body as shown at right. D Using the Monitor Rotate the monitor gently within the limits shown above.

Do not use force. Failure to observe these precautions could damage the connection between the monitor and the camera body. Adjust the monitor before mounting the camera on a tripod. 7 The Information Display Shooting information, including shutter speed, aperture, and the number of exposures remaining, is displayed in the monitor when the R button is pressed. X Camera in normal orientation 1 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 1 3 6 8 10 11 12 27 26 25 24 9 R button Camera rotated 90° to shoot in tall (portrait) orientation 34 33 32 31 30 29 28 2 7 16 17 13 15 14 19 18 2 3 4 5 6 7 8 PSet 9 10 11 12 13 14 15 16 17 PSet 23 22 20 21 1 Shooting mode i auto/ j auto (flash off)

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.....29 Bracketing increment..	
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..104 Active D-Lighting ...	
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.....94 Metering	
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88 AF-area mode.....	
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.....56 Focus mode.....	
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....54 Release mode	
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.....65 ISO sensitivity .	
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....74 White balance	
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...96 Image size ..	
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....64 27 28 29 30 31 32 33 34 Image quality.	
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.... 62 Battery indicator.	
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.... 28 "Beep" indicator	
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.. 158 Auto ISO sensitivity indicator.....	
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. 149 Manual flash indicator	162 Flash compensation indicator for optional flash units ..
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. 200 Date imprint indicator	160 GPS connection indicator..
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..... 114 Eye-Fi connection indicator...	
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..... 173 8 Changing Settings in the Information Display To change settings for the items listed in the information display, press the P button. Highlight items using the multi selector and press J to view options for the highlighted item. Some items can also be adjusted using the command dial and camera buttons (0 10). P button A X The Shutter-Speed and Aperture Displays These displays provide visual indications of shutter speed and aperture.
Fast shutter speed, large aperture (small f-number).



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Slow shutter speed, small aperture (large f-number). While the mode dial is rotated, this display is replaced by an image of the mode dial. Turning the Monitor Off To clear information from the display, press the R button again. Note that the monitor turns off automatically while the shutter-release is pressed or if no operations are performed for 8 s (the default value).

The information display can be restored by pressing the R button. See Also For information on choosing how long the monitor stays on, see Custom Setting c2 (Auto off timers, 0 157). For information on choosing a design for the information display, see Info display format, (0 166). For information on choosing whether information is displayed when the shutter-release button is pressed; see Auto information display (0 168). For information on choosing whether the cursor in the information display "wraps around," see Info wrap-around (0 168).

A A 9 The Command Dial The command dial can be used with other controls to adjust a variety of settings when shooting information is displayed in the monitor. M button: flash mode and flash compensation E button: aperture, exposure compensation, and flash compensation X Fn (E) button: release mode, image quality and size, ISO sensitivity, white balance, Active D-Lighting, or bracketing Command dial Mode dial Choose a scene (h mode; 0 34). h mode Command dial Information display Choose a combination of aperture and shutter speed (mode P; 0 81). Mode P Command dial Information display Choose a shutter speed (mode S or M; 0 82, 84). Mode S or M Command dial Information display Choose an aperture (mode A; 0 83). Mode A Command dial Information display 10 Choose an aperture (mode M; 0 84). Mode M E button + Command dial Information display Set exposure compensation (mode P, S, or A; 0 90). Mode P, S, or A E button X + Command dial Information display Choose a flash mode (0 71). + M button Command dial Information display Adjust flash compensation (mode P, S, A, or M; 0 92). + P, S, A, or M M button E button + Command dial Information display 11 The role of the Fn (E) button can be selected using Custom Setting f1 (Assign E/Fn button; 0 163), allowing the following settings to be adjusted by pressing the Fn (E) button and rotating the command dial: Fn (E) button Release mode (0 65) Image quality and size (0 62) + Command dial X ISO sensitivity (0 74) White balance (0 96) Active D-Lighting (0 94) Bracketing (0 103) The Power Switch Rotate the power switch as shown to turn the camera Power switch on.

Rotate the power switch as shown to turn the camera Power switch off. 12 Camera Menus Most shooting, playback, and setup options can be accessed from the camera menus. To view the menus, press the G button. G button Tabs Choose from the following menus: · D: Playback (0 146) · C: Shooting (0 148) · A: Custom Settings (0 153) X · · B: Setup (0 165) N: Retouch (0 174) m: Recent settings or My Menu (defaults to Recent settings; 0 190) Slider shows position in current menu. Current settings are shown by icons. Menu options Options in current menu. If a d icon is displayed at the bottom left corner of the monitor, help can be displayed by pressing the Q button. A description of the currently selected option or menu will be displayed while the button is pressed. Press 1 or 3 to scroll through the display. Q button d 13 Using Camera Menus The multi selector and J button are used to navigate the camera menus.

Move cursor up Cancel and return to previous menu J button: select highlighted item Select highlighted item or display sub-menu X Move cursor down Follow the steps below to navigate the menus. 1 Display the menus. Press the G button to display the menus. G button 2 Highlight the icon for the current menu. Press 4 to highlight the icon for the current menu.

3 Select a menu. Press 1 or 3 to position the cursor in the selected menu. 14 4 Position the cursor in the selected menu. Press 2 to position the cursor in the selected menu. 5 Highlight a menu item.

Press 1 or 3 to highlight a menu item. X 6 Display options. Press 2 to display options for the selected menu item. 7 Highlight an option. Press 1 or 3 to highlight an option. 8 Select the highlighted item. Press J to select the highlighted item. To exit without making a selection, press the G button. Note the following: · Menu items that are displayed in gray are not currently available. · While pressing 2 generally has the same effect as pressing J, there are some cases in which selection can only be made by pressing J.

· To exit the menus and return to shooting mode, press the shutter-release button halfway (0 32). 15 First Steps Charge the Battery The camera is powered by an EN-EL9a rechargeable Li-ion battery (supplied). To maximize shooting time, charge the battery in the supplied MH-23 quick charger before use. About one hour and forty minutes are required to fully recharge the battery when no charge remains. X 1 Plug the charger in. Insert the AC adapter plug into the battery charger and plug the power cable into an electrical outlet. 2 Remove the terminal cover. 7.2 EL-E V 10 L9 a 7.8 80mA Wh h Remove the terminal cover from the battery.

Terminal cover 3 Insert the battery. Insert the battery as shown in the illustration on the charger. The CHARGE lamp will blink while the battery charges. 7.2 EL-EL V 108 9a 7.

8 0m Wh Ah Battery charging Charging complete 4 Charging is complete when the CHARGE lamp stops blinking. Remove the battery and unplug the charger. 16 7.2 EL-EL V 108 9a 7.8 0m Wh Ah Remove the battery when charging is complete.

Insert the Battery 1 Turn the camera off. Power switch A Inserting and Removing Batteries Always turn the camera off before inserting or removing batteries.

X 2 Open the battery-chamber cover. Unlatch (q) and open (w) the battery-chamber cover. w q 3 Insert the battery. Insert the battery as shown at right. 4 Close the battery-chamber cover. The Battery and Charger Read and follow the warnings and cautions on pages xiixiii and 210211 of this manual. Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F). Charge the battery indoors at ambient temperatures between 535°C (4195°F); for best results, charge the battery at temperatures above 20°C (68°F).

Battery capacity may temporarily drop if the battery is charged at low temperatures or used at a temperature below the temperature at which it was charged. The battery may be hot immediately after use. Wait for the battery to cool before recharging. Use the charger with compatible batteries only. Unplug when not in use.



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D 17 Attach a Lens Care should be taken to prevent dust from entering the camera when the lens is removed. An AF-S DX NIKKOR 1855mm f/3.55.6G VR lens is used in this manual for illustrative purposes. Focal length index Focal length scale Mounting index CPU contacts (0 194) Rear lens cap A-M mode switch (see below) VR (vibration reduction) switch (0 19) X Lens cap Focus ring (0 60, 229) Zoom ring 1 2 Turn the camera off.

Remove the rear lens cap and the camera body cap. 3 Attach the lens. Keeping the mounting index on the lens aligned with the mounting index on the camera body, position the lens in the camera's bayonet mount (q). Being careful not to press the lens-release button, rotate the lens counter-clockwise until it clicks into place (w). If the lens is equipped with an A-M or M/A-M switch, select A (autofocus) or M/A (autofocus with manual priority).

D Autofocus Autofocus is supported with only AF-S and AF-I lenses, which are equipped with autofocus motors. Autofocus is not available with other AF lenses. 18 Detaching the Lens Be sure the camera is off when removing or exchanging lenses. To remove the lens, press and hold the lens release button (q) while turning the lens clockwise (w). After removing the lens, replace the lens caps and camera body cap.

Vibration Reduction (VR) AF-S DX NIKKOR 1855mm f/3.55.6G VR lenses support vibration reduction (VR), which reduces blur caused by camera shake even when the camera is panned, allowing shutter speeds to be slowed by approximately 3 EV at a focal length of 55mm (Nikon measurements; effects vary with the user and shooting conditions). To use vibration reduction, slide the VR switch to ON. Vibration reduction is activated when the shutter-release button is pressed halfway, reducing the effects of camera shake on the image in the viewfinder and simplifying the process of framing the subject and focusing in both autofocus and manual modes. When the camera is panned, vibration reduction applies only to motion that is not part of the pan (if the camera is panned horizontally, for example, vibration reduction will be applied only to vertical shake), making it much easier to pan the camera smoothly in a wide arc.

Vibration reduction can be turned off by sliding the VR switch to OFF. Turn vibration reduction off when the camera is securely mounted on a tripod, but leave it on if the tripod head is not secured or when using a monopod. X D D CPU Lenses with Aperture Rings In the case of CPU lenses equipped with an aperture ring (0 194), lock aperture at the minimum setting (highest f-number). Vibration Reduction Do not turn the camera off or remove the lens while vibration reduction is in effect.

If power to the lens is cut while vibration reduction is on, the lens may rattle when shaken. This is not a malfunction, and can be corrected by reattaching the lens and turning the camera on. Vibration reduction is disabled while the built-in flash is charging. When vibration reduction is active, the image in the viewfinder may be blurred after the shutter is released. This does not indicate a malfunction. 19 Basic Setup A language-selection dialog will be displayed the first time the camera is turned on. Choose a language and set the time and date. Photographs can not be taken until you have set the time and date. 1 X Turn the camera on. A language-selection dialog will be displayed.

Power switch 2 Select a language. Press 1 or 3 to highlight the desired language and press J. 3 Choose a time zone. A time-zone selection dialog will be displayed. Press 4 or 2 to highlight the local time zone (the UTC field shows the difference between the selected time zone and Coordinated Universal Time, or UTC, in hours) and press J.

4 Choose a date format. Press 1 or 3 to choose the order in which the year, month, and day will be displayed. Press J to proceed to the next step. 5 Turn daylight saving time on or off. Daylight saving time options will be displayed.

Daylight saving time is off by default; if daylight saving time is in effect in the local time zone, press 1 to highlight On and press J. 20 6 Set the date and time. The dialog shown at right will be displayed. Press 4 or 2 to select an item, 1 or 3 to change. Press J to set the clock and exit to shooting mode. A A The Setup Menu Language and date/time settings can be changed at any time using the Language (0 169) and Time zone and date (0 169) options in the setup menu. X

The Clock Battery The camera clock is powered by an independent, rechargeable power source, which is charged as necessary when the main battery is installed or the camera is powered by an optional EP-5 power connector and EH-5a AC adapter (0 204). Three days of charging will power the clock for about a month. If a message warning that the clock is not set is displayed when the camera is turned on, the clock battery is exhausted and the clock has been reset. Set the clock to the correct time and date.

The Camera Clock The camera clock is less accurate than most watches and household clocks. Check the clock regularly against more accurate time pieces and reset as necessary. A 21 Insert a Memory Card The camera stores pictures on Secure Digital (SD) memory cards (available separately). 1 X Turn the camera off. Power switch A Inserting and Removing Memory Cards Always turn the camera off before inserting or removing memory cards. 2 Open the card slot cover. Slide the card slot cover out (q) and open the card slot (w). 3 Insert the memory card. Holding the memory card as shown at right, slide it in until it clicks into place. The memory card access lamp will light for a few seconds.

Close the memory card slot cover. D Inserting Memory Cards Inserting memory cards upside down or backwards could damage the camera or the card. Check to be sure the card is in the correct orientation. Front Access lamp If this is the first time the memory card will be used in the camera after being used or formatted in another device, format the card as described on page 23. Removing Memory Cards After confirming that the access lamp is off, turn the camera off, open the memory card slot cover, and press the card in to eject it (q).

The card can then be removed by hand (w). 22 4.0GB 4.0GB Format the Memory Card Memory cards must be formatted after being used or formatted in other devices. Format the card as described below.

D Formatting Memory Cards Formatting memory cards permanently deletes any data they may contain. Be sure to copy any photographs and other data you wish to keep to a computer before proceeding (0 134). 1 X Turn the camera on. Power switch 2 Display format options. Press the G button to display the menus. Highlight Format memory card in the setup menu and press 2. For more information on using the menus, see page 13. G button 3 Highlight Yes. To exit without formatting the memory card, highlight No and press J.



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4 Press J.

The message at right will be displayed while the card is formatted. Do not remove the memory card or remove or disconnect the power source until formatting is complete. 23 X Memory Cards · Memory cards may be hot after use. Observe due caution when removing memory cards from the camera. · Turn the power off before inserting or removing memory cards. Do not remove memory cards from the camera, turn the camera off, or remove or disconnect the power source during formatting or while data are being recorded, deleted, or copied to a computer. Failure to observe these precautions could result in loss of data or in damage to the camera or card. · Do not touch the card terminals with your fingers or metal objects. · Do not bend, drop, or subject to strong physical shocks.

Do not apply force to the card casing.

Failure to observe this precaution could damage the card. · Do not expose to water, heat, high levels of humidity, or direct sunlight. D A The Write Protect Switch Memory cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" position, photos can not be recorded or deleted and the memory card can not be formatted. To unlock the memory card, slide the switch to the "write" position.

24 GB 4.0 Write-protect switch Adjust Viewfinder Focus The camera is equipped with diopter adjustment to accommodate individual differences in vision. Check that the display in the viewfinder is in focus before framing pictures in the viewfinder. 1 Remove the lens cap and turn the camera on. Power switch X 2

Focus the viewfinder.

Slide the diopter adjustment control up and down until the viewfinder display and focus point are in sharp focus. When operating the control with your eye to the viewfinder, be careful not to put your fingers or fingernails in your eye. Focus point A Adjusting Viewfinder Focus If you are unable to focus the viewfinder as described above, select single-servo autofocus (AF-S; 0 54), single-point AF (c; 0 57), and the center focus point (0 58), and then frame a high-contrast subject in the center focus point and press the shutter-release button halfway to focus the camera. With the camera in focus, use the diopter adjustment control to bring the subject into clear focus in the viewfinder. If necessary, viewfinder focus can be further adjusted using optional corrective lenses (0 202). 25 X 26 Basic s Photography and Playback This chapter outlines the basics of taking and viewing photographs in auto and scene modes.

"Point-and-Shoot" Photography (i and j Modes)....

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... Step 1: Turn the Camera On ..

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... Step 2: Select i or j Mode.....

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... Step 3: Frame the Photograph

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..... *Creative Photography (Scene Modes)*

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Remove the lens cap and turn the camera on. After a brief pause while the camera cleans the image sensor, the information display will appear in the monitor. Power switch 2 Check the battery level. Check the battery level in the information display or the viewfinder (if the monitor is off, press the R button to view the information display; if the monitor does not turn on, the battery is exhausted and must be recharged). Information display L K H H (blinks) Viewfinder Description -- Battery fully charged.

-- Battery partially discharged. Low battery. Ready fully-charged spare battery or d prepare to charge battery. d Battery exhausted; shutter release disabled. Charge or (blinks) exchange battery.

28 3 Check the number of exposures remaining. The information display and viewfinder show the number of photographs that can be stored on the memory card. Check the number of exposures remaining. If there is not enough memory to store additional photographs at current settings, a warning will be displayed. No further pictures can be taken until the memory card has been replaced (0 22) or photographs have been deleted (0 40, 126). s When enough memory remains on the memory card to record a thousand or more pictures at current settings, the number of exposures remaining will be shown in thousands, rounded down to the nearest hundred (e.g., if there is room for 1,260 exposures, the exposure count display will show 1.2 K). Auto Meter Off At default settings, the viewfinder and information display will turn off if no operations are performed for about eight seconds (auto meter off), reducing the drain on the battery.

Press the shutter-release button halfway to reactivate the display (0 32). 8s Exposure meters on Exposure meters off Exposure meters on A The length of time before the exposure meters turn off automatically can be adjusted using Custom Setting c2 (Auto off timers; 0 157). A Image Sensor Cleaning At default settings, the camera vibrates the low-pass filter covering the image sensor to remove dust when the camera is turned on or off. 29 Step 2: Select i or j Mode To shoot where use of a flash is prohibited, Mode dial photograph infants, or capture natural lighting under low light conditions, rotate the mode dial to j. Otherwise, rotate the mode dial to i. s j mode i mode Step 3: Frame the Photograph 1 Ready the camera. When framing photographs in the viewfinder, hold the handgrip in your right hand and cradle the camera body or lens with your left. Keep your elbows propped lightly against your torso for support and place one foot half a pace ahead of the other to keep your upper body stable. Hold the camera as shown at right when framing photographs in portrait (tall) orientation. In j mode, shutter speeds slow when lighting is poor; use of a tripod is recommended.

2 Frame the photograph. Frame a photograph in the viewfinder with the main subject in at least one of the 11 focus points. Focus point 30 A Using a Zoom Lens Use the zoom ring to zoom in on the subject so that it fills a larger area of the frame, or zoom out to increase the area visible in the final photograph (select longer focal lengths on the lens focal length scale index to zoom in, shorter focal lengths to zoom out).



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Zoom in Zoom ring Zoom out Step 4: Focus s 1 Press the shutter-release button halfway. Press the shutter-release button halfway to focus. The camera will select the focus points automatically. If the subject is poorly lit, the flash may pop up and the AF-assist illuminator may light. 2 Check the indicators in the viewfinder. When the focus operation is complete, the selected focus points will be briefly highlighted, a beep will sound, and the in-focus indicator (I) will appear in the viewfinder. In-focus indicator Description I Subject in focus.

Camera unable to focus using I (blinks) autofocus. See page 55. In-focus indicator Buffer capacity While the shutter-release button is pressed halfway, the number of exposures that can be stored in the memory buffer ("r"; 0 66) will be displayed in the viewfinder. 31 Step 5: Shoot Smoothly press the shutter-release button the rest of the way down to release the shutter and record the photograph. The access lamp next to the memory card slot cover will light and the photograph will be displayed in the monitor for a few seconds (to resume shooting before the photograph clears from the display, press the shutter-release button halfway). Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete. Access lamp s A The Shutter-Release Button The camera has a two-stage shutter-release button. The camera focuses when the shutter-release button is pressed halfway. To take the photograph, press the shutter-release button the rest of the way down. A The Built-in Flash If additional lighting is required for correct exposure in i mode, the built-in flash will pop up automatically when the shutter-release button is pressed halfway.

If the flash is raised, photographs can only be taken when the flash-ready indicator (M) is displayed. If the flash-ready indicator is not displayed, the flash is charging; remove your finger briefly from the shutter-release button and try again. To save battery power when the flash is not in use, return it to its closed position by pressing it gently downward till the latch clicks into place. A Using the Flash For more information on using the flash, see page 70. 32 Creative Photography (Scene Modes) The camera offers a choice of "scene" modes. Choosing a scene mode automatically optimizes settings to suit the selected scene, making creative photography as simple as selecting a mode, framing a picture, and shooting as described on pages 2832. The Mode Dial The following scenes can be selected with the mode dial: Portrait Landscape Child Night Sports Close up portrait Other scenes Mode dial s k l p m n oh h Mode When the mode dial is rotated to h, the following scenes can be selected by rotating the command dial until the desired scene is shown in the information display (0 8): Mode dial Night landscape Party/indoor Beach/snow Command dial Sunset Dusk/dawn Information display Pet portrait Candlelight r Blossom s y z t Food u Silhouette v High key w Low key x 3 Autumn colors 0 1 2 A h Mode The mode selected when the mode dial is rotated to h can also be chosen using the Scene mode option in the shooting menu (0 148). 33 Scene Modes k Portrait p Child s Use for portraits with soft, natural-looking skin tones. If the subject is far from the background or a telephoto lens is used, background details will be softened to lend the composition a sense of depth. Use for snapshots of children. Clothing and background details are vividly rendered, while skin tones remain soft and natural. l Landscape m Sports Use for vivid landscape shots in daylight. The built-in flash and AF-assist illuminator turn off; use of a tripod is recommended to prevent blur when lighting is poor. Fast shutter speeds freeze motion for dynamic sports shots in which the main subject stands out clearly. The built-in flash and AF-assist illuminator turn off.

34 n Close Up r Night Landscape s Use for close-up shots of flowers, insects, and other small objects (a macro lens can be used to focus at very close ranges). Use of a tripod is recommended to prevent blur. Reduce noise and unnatural colors when photographing night landscapes, including street lighting and neon signs. The built-in flash and AF-assist illuminator turn off; use of a tripod is recommended to prevent blur. o Night Portrait s Party/Indoor Use for a natural balance between the main subject and the background in portraits taken under low light. Use of a tripod is recommended to prevent blur. Capture the effects of indoor background lighting. Use for parties and other indoor scenes. 35 t Beach/Snow v Dusk/Dawn s Capture the brightness of sunlight expanses of water, snow, or sand. The built-in flash and AF-assist illuminator turn off. Preserves the colors seen in the weak natural light before dawn or after sunset. The built-in flash and AF-assist illuminator turn off; use of a tripod is recommended to prevent blur when lighting is poor. u Sunset w Pet Portrait Preserves the deep hues seen in sunsets and sunrises. The built-in flash and AF-assist illuminator turn off; use of a tripod is recommended to prevent blur when lighting is poor. Use for portraits of active pets.

The AF-assist illuminator turns off. 36 x Candlelight z Autumn Colors s For photographs taken by candlelight. The built-in flash turns off; use of a tripod is recommended to prevent blur when lighting is poor. Captures the brilliant reds and yellows in autumn leaves. The built-in flash turns off; use of a tripod is recommended to prevent blur when lighting is poor. y Blossom O Food Use for fields of flowers, orchards in bloom, and other landscapes featuring expanses of blossoms. The built-in flash turns off; use of a tripod is recommended to prevent blur when lighting is poor. Use for vivid photographs of food. Use of a tripod is recommended to prevent blur when lighting is poor; the flash can also be used (0 70). 37 l Silhouette 3 Low Key s Silhouette subjects against bright backgrounds. The built-in flash turns off; use of a tripod is recommended to prevent blur when lighting is poor. Use to create dark, somber images that bring out highlights when shooting dark scenes. The built-in flash turns off; use of a tripod is recommended to prevent blur when lighting is poor. 2 High Key Use to create bright images that seem filled with light when shooting bright scenes. The built-in flash turns off.

38 Basic Playback At default settings, photographs are automatically displayed for about 4 s after shooting. If no photograph is displayed in the monitor, the most recent picture can be viewed by pressing the K button. 1 Press the K button. A photograph will be displayed in the monitor. s K button 2 View additional pictures.



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