



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D3000. You'll find the answers to all your questions on the NIKON D3000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D3000
User guide NIKON D3000
Operating instructions NIKON D3000
Instructions for use NIKON D3000
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Nikon

DIGITAL CAMERA
D3000
User's Manual

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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 1 X Introduction s Basic Photography and Playback ! Guide Mode 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 g The Setup Menu u The Retouch Menu w Recent Settings n Technical Notes 0 25 0 35 0 41 0 67 0 91 0 105 0 117 0 119 0 124 0 140 0 155 0 157 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 information display The viewfinder Number of exposures remaining Battery level Auto off timers Language LCD brightness Framing grid Photo information 0 6 5 26 25 130 127 125 132 9296 ii Taking Photographs Question Is there a quick and easy way to take snapshots? How do I use the GUIDE position on the mode dial? How do I quickly adjust settings for different scenes? 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 point? 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? 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? 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 Viewfinder focus Beep 4143 46 45 46 5960 5960 27 5860 122 5354 5557 67 69 70 76 7273 6465 23 131 Image quality and size 5052 Key phrase Auto modes Guide mode Scene modes 0 2529 3540 3031 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 a TV? 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 NEF (RAW) 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 copies that look like photos of miniatures? 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 Miniature effect Stop-motion movie 0 32, 91 33, 101103 99 100 104 116 105106 107115 109, 112 114 140154 142 147148 149 150 150 151152 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? The command dial Menus 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 recently-used settings? Recent settings 155 Reset shooting options Reset setup options Time zone and date File number sequence 0 1113 11 183 6, 7 810 117155 119 125 18, 127 133 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 other accessories are available for my camera? What software is 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 55 167 157 162 166 169 169 v Table of Contents Q&A Index

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result of a fall or other accident, remove the battery and/or AC adapter and then take the product to a Nikon-authorized service center for inspection.

infant or child Placing the camera strap around the neck of an infant or child could result in strangulation. · Using the camera with the flash in close contact with the skin or other objects could cause burns. · Using the flash close to the subject's eyes could cause temporary visual impairment. Particular care should be observed when photographing infants, when the flash should be no less than one meter (39 in.) from the subject. Should the monitor break, care should be taken to avoid injury due to broken glass and to prevent the liquid crystal from the monitor 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 xi 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. · 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.



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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. 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.

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Do not use this product for the purpose of making illegal copies or to infringe copyright laws. xv 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. Life-Long Learning As part of Nikon's "Life-Long Learning"

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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. 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. D A Camera Settings The explanations in this manual assume that default settings are used. I 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 11 X 1 2 3 4 5 6 7 8 20 21 12 13 22 14 23 24 9 15 10 16 17 18 19 Mode dial

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4 Focal plane mark (E)

..... 49 R (information) button.....

....6 E (exposure compensation) button.....

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..... 77 N (aperture) button.

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.. 71 Flash compensation button

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79 5 Shutter-release button

... 29 6 Power switch..

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.... 25 7 AF-assist illuminator.

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..... 43 Self-timer lamp...

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.... 56 Red-eye reduction lamp .

.... 60 1 2 3 4 8 9 10 11 12 13 14 15 16 Infrared receiver

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.... 56 BF-1A body cap CPU contacts Built-in flash.

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.. 58 M (flash mode) button ...	
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. 58 Y (flash compensation) button.....	
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..... 79 Eyelet for camera strap Connector cover E (self-timer) button	
..... 57 Fn (function) button ...	
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...134 Mounting index..	
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..... 16 17 18 19 20 21 22 23 24 Lens release button .	
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...17 Mirror.....	
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.172 Lens mount	
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49 BS-1 accessory shoe cover	
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.162 Accessory shoe (for optional flash unit)	
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...162 VIDEO-OUT connector..	
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.116 Reset switch.....	
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..179 USB connector Connecting to a computer...	
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106 Connecting to a printer ..107 2 The Camera Body (Continued) 2 1 9 10 11 3 4 5 6 7 12 13 14 15 16 17 18 19 X 8 1 Viewfinder eyepiece...	
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.23 7 X (playback zoom in) button.....	
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..... 99 2 DK-20 rubber eyecup P (information edit) 3 Monitor button....	
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....7 Viewing settings .	
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...6 Viewing pictures.....	
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32 8 Tripod socket Full-frame playback	
.....	
.91 9 Diopter adjustment control	
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.....	
.....	
..... 23 4 K (playback) button	
32, 91 5 G (menu) button	
11, 117 10 A (AE-L/AF-L) button.....	
.....	
.....	
. 47, 135 6 W (thumbnail/playback L (protect) button ...	
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. 100 zoom out) button	
.....97 Q (help) button....	
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.....11 11 Command dial .	
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.....	
.....8 12 Memory card slot cover.....	
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.. 20 13 Multi selector	
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..... 12 14 J (OK) button ...	
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12 15 Memory card access lamp	
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. 20, 29 16 O (delete) button Deleting pictures.....	
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.. 33 Deleting pictures during playback ...	
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.101 17 Power connector cover for optional power connector	
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..168 18 Battery-chamber cover latch	

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15 19 Battery-chamber cover..... 15 3 The Mode Dial The camera offers a choice of the following modes: P, S, A, and M Modes Select these modes for full control over camera settings. P--Programmed auto (0 68): Camera chooses shutter speed and aperture, user controls other settings.

A--Aperture-priority auto (0 70): Adjust aperture to soften background details or increase depth-of-field to bring both main subject and background into focus. X GUIDE Mode g (0 35): Take and view pictures and adjust settings with the help of an on-screen guide. S--Shutter-priority auto (0 69): Choose fast shutter speeds to freeze action, M--Manual (0 71): Match slow shutter speeds to shutter speed and aperture suggest motion by blurring to your creative intent. moving objects. Auto Modes Select these modes for simple, point-andshoot photography. i Auto (0 25): 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 25): 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 30): Shoot portraits with back- m Sports (0 31): Freeze motion for dynamic ground in soft focus. sports shots. l Landscape (0 30): Preserve details in landscape shots. n Close up (0 31): Take vivid close-ups of flowers, insects, and other small objects. p Child (0 31): Create portraits of children. o Night portrait (0 31): Shoot portraits Clothing and background details are vividly against a dimly-lit backdrop. rendered while skin tones remain soft and natural.



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4 The Viewfinder 1 5 6 7 2 3 4 8 9 10 11 12 13 X 14 15 16 17 18 19 1 Framing grid (displayed when 10 Battery indicator

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..... 25 On is selected for 11 Number of exposures Viewfinder options > remaining

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.. 26 Viewfinder grid in the Number of shots remaining setup menu)

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... 132 before memory buffer 2 Reference circle for centerfills

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.... 54 weighted metering

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.74 White balance recording indicator...

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.. 83 3 Card warning indicator...

... 183 Exposure compensation value 4 Battery indicator

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...25..
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. 76 5 Focus points

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.....46 Flash compensation 6 Focus indicator .

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28, 49 value

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.. 78 7 Autoexposure (AE) lock ISO sensitivity.....

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.. 62 indicator...

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....75 12 "K" (appears when memory 8 Shutter speed .

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..... 69, 71 remains for over 1000 9 Aperture (f-number) ...

... 70, 71 exposures) ..

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26 13 Flash-ready indicator.....
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.. 29 14 Flexible program indicator

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... 68 15 Exposure indicator

..... 71 Exposure compensation display.
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.... 77 Electronic rangefinder .
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.132 16 Flash compensation indicator

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.. 78 17 Exposure compensation indicator

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... 76 18 Auto ISO sensitivity indicator

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..120 19 Warning indicator

.....183 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.

D D 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 display may vary with temperature. *D 5 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. *R button X* Camera in normal orientation 1 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 1 3 Camera rotated 90° to shoot in tall (portrait) orientation 29 28 27 26 25 24 23 2 6 12 13 11 16 15 14 2 3 4 5 6 7 7 9 10 22 21 20 8 19 18 17 8 9 10 11 12 13 1 Shooting mode i auto/j auto (flash off) .

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..... 25 Scene modes ..

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30 Guide mode

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.... 35 P, S, A, and M modes.
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..... 67 2 Aperture (f-number)

.70, 71 3 Shutter speed

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....69, 71 4 Shutter-speed display.
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..7 5 Aperture display.....
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.....7 6 Exposure indicator.....

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.. 71 Exposure compensation indicator....

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.. 77 Electronic rangefinder ...

.... 132 7 Auto-area AF indicator .

..... 45 3D-tracking indicator...

..... 45 Focus point ..

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..... 46 8 9 10 11 12 13 14 15 16 17 18 19 Help icon...

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.....183 Flash mode.

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.....59 Exposure compensation .

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76 Flash compensation.....

.....78 Number of exposures remaining .

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.....26 "K" (appears when memory remains for over 1000 exposures)...

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.....26 Active D-Lighting

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...64 Metering .

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...74 AF-area mode..

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...44 Focus mode..

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..41 Release mode ...

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.....53 ISO sensitivity ...

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..... 80 Image size

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..... 52 Image quality...

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.. 50 Battery indicator.....

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.. 25 "Beep" indicator ...

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131 Picture Control.....

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... 87 Auto ISO sensitivity indicator.....

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.. 120 27 Manual flash indicator 123 Flash compensation indicator for optional flash units .

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.. 164 28 Date imprint indicator 136 29 Eye-Fi connection indicator.

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..... 139 20 21 22 23 24 25 26 6 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 8). P button A The Shutter-Speed and Aperture Displays These displays provide visual indications of shutter speed and aperture. X Fast shutter speed, large aperture (small f-number). 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. A A See Also For information on choosing how long the monitor stays on, see Auto off timers (0 130). For information on choosing a design for the information display, see Info display format, (0 125).

For information on choosing whether information is displayed when the shutter-release button is pressed; see Auto info display (0 127). 7 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 Fn (E) button: release mode, image quality and size, ISO sensitivity, white balance, Active D-Lighting, or framing grid display Command dial X Mode dial Choose a combination of aperture and shutter speed (mode P; 0 68). Mode P Command dial Information display Choose a shutter speed (mode S or M; 0 69, 71). Mode S or M Command dial Information display Choose an aperture (mode A; 0 70). Mode A Command dial Information display Choose an aperture (mode M; 0 71). Mode M E button + Command dial Information display 8 Set exposure compensation (mode P, S, or A; 0 76). Mode P, S, or A E button + Command dial Information display Choose a flash mode (0 59). + M button Command dial Information display X Adjust flash compensation (mode P, S, A, or M; 0 78). + P, S, A, or M M button E button + Command dial Information display 9 The role of the Fn (E) button can be selected using the Buttons > E/Fn button option in the setup menu (0 134), allowing the following settings to be adjusted by pressing the Fn (E) button and rotating the command dial: Fn (E) button Release mode (0 53) White balance (0 80) + Command dial X Image quality and size (0 50) Active D-Lighting (0 64) ISO sensitivity (0 62) Set framing grid (0 132) Viewfinder The Power Switch Rotate the power switch as shown to turn the camera on.

Rotate the power switch as shown to turn the camera off. 10 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 (0 117) · C: Shooting (0 119) · B: Setup (0 124) X · N: Retouch (0 140) m: Recent settings (0 155) 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 (W) 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 (W) button d A Guide Mode To display the guide menu, rotate the mode dial to GUIDE (0 35).



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11 Using Camera Menus The multi selector and J button are used to navigate the camera menus. Move cursor up J button: select highlighted item Cancel and return to previous menu 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 select the desired menu. 12 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 29). 13 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. 14 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. 2 X 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. D The Battery and Charger Read and follow the warnings and cautions on pages xixii and 174175 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. 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. 15 Attach a Lens Care should be taken to prevent dust from entering the camera when the lens is removed. The lens generally used in this manual for illustrative purposes is an AF-S DX NIKKOR 1855mm f/3.55.6G VR.

Focal length index Focal length scale Mounting index CPU contacts (0 158) X Lens cap Rear lens cap A-M mode switch (see below) VR (vibration reduction) switch (0 17) Focus ring (0 48, 191) 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 lensrelease button, rotate the lens counter-clockwise until it clicks into place (w).

Slide the A-M switch to A (autofocus; if the lens has an M/A-M switch, select M/A for 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. 16 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 (0 158), 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. 17 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.



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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. 18 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 (0 127) and Time zone and date (0 127) 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 (0 168). 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 19 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 or the card has been formatted in another device, format the card as described on page 21.

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). 20 4.0GB 4.0GB Format the Memory Card Memory cards must be formatted before first use or after being 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 (0 105). 1 Turn the camera on. Power switch X 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 11. G button 3 Highlight Yes. To exit without formatting the memory card, highlight No and press J.

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. 21 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. 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, the memory card can not be formatted and photos can not be deleted or recorded (a beep will sound if you attempt to release the shutter).

To unlock the memory card, slide the switch to the "write" position. D A 22 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 42), single-point AF (c; 0 45), and the center focus point (0 46), 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 (0 166). 23 X 24 Basic s Photography and Playback "Point-and-Shoot" Photography (i and j Modes) This section describes how to take photographs in i (auto) mode, an automatic "point-and-shoot" mode in which the majority of settings are controlled by the camera in response to shooting conditions, and in which the flash will fire automatically if the subject is poorly lit. To take photographs with the flash off while leaving the camera in control of other settings, rotate the mode dial to j to select auto (flash off) mode. s Step 1: Turn the Camera On 1 Turn the camera on. Remove the lens cap and turn the camera on.

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.



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Charge or (blinks) exchange battery. 25 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 20) or photographs have been deleted (0 33, 101). 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 29).

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 the Auto off timers option in the setup menu (0 130). 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 (0 170). 26 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. j mode i mode s 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 27 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). Zoom in Zoom ring Zoom out s Step 4: Focus 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 42. 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 ("t"; 0 54) will be displayed in the viewfinder. 28 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 (the photo will automatically clear from the display when the shutter-release button is pressed 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. 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. A 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 58. 29 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 25-29. The Mode Dial The following scenes can be selected with the mode dial: Mode Mode dial s k l p m n o Portrait Landscape Child Sports Close up Night portrait Scene Modes k Portrait l Landscape 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 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. 30 p Child n Close Up Use for snapshots of children.

Clothing and background details are vividly rendered, while skin tones remain soft and natural. 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. s m Sports o Night Portrait 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. 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. 31 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. Additional pictures can be displayed by pressing 4 or 2 or rotating the command dial. To view additional information on the current photograph, press 1 and 3 (0 92).



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3 1/250 F11 +1. 0 100 35mm AUTO A6, M1 100D3000 DSC_0001. JPG 15/04/2009 10 : 02 : 27 NOR AL ORMAL 3872x2592 To end playback and return to shooting mode, press the shutter-release button halfway. 32 Deleting Unwanted Photographs To delete the photograph currently displayed in the monitor, press the O button. Note that photographs can not be recovered once deleted.

1 Display the photograph. Display the photograph you wish to delete as described on the preceding page. 2 Delete the photograph. Press the O button. A confirmation dialog will be displayed; press the O button again to delete the image and return to playback (to exit without deleting the picture, press K). s O button A Delete To delete selected images (0 102), all images taken on a selected date (0 103), or all images in the current playback folder (0 117), use the Delete option in the playback menu. 33 s 34 ! Mode Guide The Guide Menu The guide menu gives access to a variety of frequently-used and useful functions. The top level of the guide menu is displayed when the mode dial is rotated to g. Choose from the following menus: Shoot Take pictures. View/delete Set up View and/or delete pictures.

Change camera settings. Battery indicator (0 25) ! Shooting mode: A guide mode indicator appears on the shooting mode icon. Number of exposures remaining (0 26) Guide Mode Guide mode is reset to Easy operation > Auto when the mode dial is rotated to another setting or the camera is turned off. If no other option is selected when the shutter-release button is pressed, the camera will take pictures in auto mode. If the monitor turns off, the top level menu can be displayed by pressing the G button. To increase the time the monitor remains on when no operations are performed, select Set up > Auto off timers in the guide menu. D A Displaying the Top Level of the Guide Menu Press the G button at any time to return to the top level of the guide menu. 35 The following operations can be performed while the guide menu is displayed: To Use Description Press 1 or 3 to highlight options in the guide menu. Highlight options

Press 1, 3, 4, or 2 to highlight options in displays like that shown at right. Select highlighted option J Press J to select the highlighted option.

Press 4 to return to the previous display. ! Return to previous display To cancel and return to the previous display from displays like that shown at right, highlight & and press J. Return to top level menu G button Press G to return to the top level of the guide menu. View help If a d icon is displayed at the bottom left corner of the monitor, help can be displayed by pressing the Q (W) button. A description of the currently selected option will be displayed while the button is pressed.

Press 1 or 3 to scroll d (help) icon through the display. Q (W) button 36 Shoot: Taking Pictures in Guide Mode Select Shoot to take pictures using settings that suit the scene. Press G to display guide menu Highlight Shoot Press J to display options Highlight Shoot in the top level of the guide menu and press J to display the following options: Easy operation 4 Auto Distant subjects 1, 2 Advanced operation 3 5 9 No flash ! 8 9 Close-ups Sleeping faces Moving subjects 1, 2 7 6 " Landscapes 1, 2 Portraits Night portrait ! # Soften backgrounds: Select aperture Freeze motion (people): Select a shutter speed \$ Freeze motion (vehicles): Select a shutter speed Timers & remote control 8 Single frame I Continuous ' 10-second self-timer " Delayed remote # Quick-response remote 1 Built-in flash turns off automatically. Optional flash units can still be used (0 162). 2 AF-assist illuminator (0 43) turns off automatically.

3 If the subject is poorly lit, you can raise ISO sensitivity as described on page 62 after selecting Start shooting. 37 To select a scene (Easy operation > Auto in this example): Press 2 Highlight an option Highlight a scene Press 2 ! Highlight Start shooting (to adjust the settings listed below, select More settings)

Press J to view camera settings in the information display (0 6) More Settings Select More settings to adjust the following: Flash mode 1 Picture Control 2

Release mode Exposure compensation 2 AF-area mode Flash compensation 2 1 Modes available vary with shooting option selected in guide mode. 2

Advanced operation only. A Displaying the Top Level of the Guide Menu Press the G button at any time to return to the top level of the guide menu. 38

View/Delete: Viewing and Deleting Pictures in Guide Mode Select View/delete to view and delete pictures. Press G to display guide menu Highlight View/delete Press J to display options Highlight View/delete in the top level of the guide menu and press J to display the following options: View single photos View multiple photos Choose a date View a slide show Delete photos ! To select an option (View single photos in this example): Highlight an option Press J to select A Displaying the Top Level of the Guide Menu Press the G button at any time to return to the top level of the guide menu. 39 Set up: Changing Camera

Settings in Guide Mode Select Set up to format memory cards or adjust camera settings. Press G to display guide menu Highlight Set up Press J to display options Highlight Set up in the top level of the guide menu and press J to display the following options: ! Image quality Image size Active D-Lighting Playback folder Print set (DPOF) Format memory card LCD brightness Info background color Auto info display Video mode Time zone and date Language Auto off timers Beep Date imprint No memory card? Eye-Fi upload * * Only available when compatible Eye-Fi memory card is inserted. Changes to settings other than Playback folder, Print set (DPOF), Format memory card, Video mode, Time zone and date, Language, No memory card?, and Eye-Fi upload only apply in guide mode and are not reflected in other shooting modes. To select an option (Beep > Off in this example): Highlight a setting Press J Highlight an option Press J to select A Displaying the Top Level of the Guide Menu Press the G button at any time to return to the top level of the guide menu.

40 More z on Photography (All Modes) Focus Focus can be adjusted automatically or manually (see "Focus Mode," below). The user can also select the focus point for automatic or manual focus (0 46) or use focus lock to focus to recompose photographs after focusing (0 46). Focus Mode Choose from automatic and manual focus modes. 1 Place the cursor in the information display. If shooting information is not displayed in the monitor, press the R button. Press the P button to place the cursor in the information display. z R button Information display P button 2 Display focus-mode options.



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