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You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D80. You'll find the answers to all your questions on the NIKON D80 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D80
User guide NIKON D80
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Nikon

En

The Nikon Guide to Digital Photography
with the

D80

DIGITAL CAMERA



CE



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Manual abstract:

The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol: This icon marks warnings. To prevent possible injury, read all warnings before using this Nikon product. **WARNINGS** Keep the sun out of the frame Keep the sun well out of the frame when shooting backlit subjects. Sunlight focused into the camera when the sun is in or close to the frame could cause a fire. Do not look at the sun through the viewfinder Viewing the sun or other strong light source through the viewfinder could cause permanent visual impairment. 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. Turn off immediately in the event of malfunction 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. Do not disassemble Touching the product's internal parts could result in injury.

In the event of malfunction, the product should be repaired only by a qualified technician. Should the product break open as the 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. 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. Keep out of reach of children Failure to observe this precaution could result in injury. Do not place the strap around the neck of an infant or child Placing the camera strap around the neck of an infant or child could result in strangulation.

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. 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. ii For Your Safety · Do not handle the plug or charger with wet hands. ROMs on an audio CD player could cause hearing loss Failure to observe this precaution could result in elec or damage the equipment. tric shock. Observe caution when using the flash Use appropriate cables Do not operate the flash with the flash window When connecting cables to the input and output touching a person or object.

Failure to observe this jacks, use only the cables provided or sold by Nikon precaution could result in burns or fire. for the purpose to maintain compliance with product Using the flash close to the subject's eyes could cause regulations. temporary visual impairment. Particular care should be observed when photographing infants, when the CD-ROMs flash should be no less than one meter (39 in.) from CD-ROMs containing software or manuals should not be

played back on audio CD equipment. Playing CDAvoid contact with liquid crystal 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. 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.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



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· Consult the dealer or an experienced radio/television technician for help. D80 CAUTIONS Modifications The FCC requires the user be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment. Interface Cables Use the interface cables sold or provided by Nikon for your equipment. Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules.

Notice for Customers in the State of California WARNING: Handling the cord on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling. Tel.: 631-547-4200 Nikon Inc., 1300 Walt Whitman Road, Melville, New York 11747-3064, U.

S.A. Notices for Customers in Canada CAUTION This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. ATTENTION Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Notices iii Symbol for Separate Collection in European Countries This symbol indicates that this product is to be collected separately.

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147 vi Table of Contents Q & A Index Find what you're looking for using this "question and answer" index. General Questions Question How do I use the menus? How do I get more information on a menu? What do these indicators mean? What does this warning mean? How many more shots can I take with this card? How much charge does the battery have left? What does "exposure" mean and how does it work? What do I do with the viewfinder eyepiece cap? What optional flash units (Speedlights) can I use? What lenses can I use? What accessories are available for my camera? What memory cards can I use? What software is available for my camera? Who can I ask to repair or inspect my camera? How do I clean the camera or lens? Key phrase Using the menus Help Control panel, viewfinder Camera Error messages and displays Number of exposures remaining Battery level Exposure Self timer, remote control Optional flash units Lenses Accessories for the D80 Approved memory cards Accessories for the D80 Servicing the camera Cleaning the camera Page # 910 3, 9 5, 6 132133 19 19 46 37, 38 119121 117118 123 122 123 x, 126 124 Camera Setup Question How do I focus the viewfinder? How do I keep the monitor from

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Key phrase Viewfinder focus Monitor off World time LCD brightness Two-button reset AF-assist illuminator Grid display LCD illuminator Auto meter off Self timer Remote control Beep CSM / setup menu Language File number sequence Page # 17 98 103 103 44 87 89 3, 93 99 99 99 86 101 103 106 Q & A Index vii Taking Photographs Question Is there an easy way to take snapshots? Is there an easy way to take more creative shots? How do I bring out a portrait subject? How can I get good landscape shots? How do I take close ups of small objects? How do I "freeze" a moving subject? How do I shoot scenery at night? Can I include night backgrounds in my portraits? How do I take a lot of photographs quickly? Can I shoot a self-portrait? Is there a remote control for this camera? How do I adjust exposure? How do I freeze or blur moving objects? How do I blur background details? Can I make photos brighter or darker? How do I make a time exposure? How do I use the flash? Can the flash fire automatically when needed? How do I keep the flash from firing? How do I prevent red eye? Can I take pictures under low light without the flash? Can I control how the camera focuses? How do I focus on a moving subject? How do I choose where the camera focuses? Can I change the composition after focusing? How do I improve image quality? How do I take bigger photographs? How can I get more photos on the memory card? Can I take photos at a reduced size for e-mail? Key phrase Auto mode Digital Vari-Program modes Portrait mode Landscape mode Close-up mode Sports mode Night landscape mode Night portrait mode Shooting mode Self timer Remote control Exposure; P, S, A, and M modes Mode S (shutter-priority auto) Mode A (aperture-priority auto) Exposure compensation Long time-exposures Flash photography, flash mode Red-eye reduction ISO sensitivity Autofocus Autofocus mode Focus area Focus lock Image quality and size Page # 1923 2425 24, 25 24, 25 24, 25 24, 25 24, 25 24, 25 36 37 3839 4551 48 49 54 51 4042 41 43 2829 29 30 31 3335 viii Q & A Index Viewing, Printing, and Retouching Photographs Question Can I view my photographs on the camera? Can I view more information about photos? Why parts of my photos blink? How do I get rid of an unwanted photo? Can I delete several photos at once? Can I zoom in on pictures to make sure they're in focus? Can I protect photos from accidental deletion? Is there an automatic playback ("slide show") option? Can I view my photos on TV? Can I set a slide show to music? How do I copy photos to my computer? How do I print photographs? Can I print photos without a computer? Can I print the date on my photographs? How do I order professional prints? How do I bring out details in shadows? Can I get rid of red eye? Can I crop photographs on the camera? Can I create a monochrome copy of a photograph? Can I create a copy with different colors? Can I make a small copy of a photograph? Can I overlay two photos to make a single image? Key phrase Camera playback Photo info Photo info, highlights Deleting individual photos Delete Playback zoom Protect Slide show Television playback Pictmotion Connecting to a computer Printing photographs Printing via USB Time stamp, DPOF Print set D-lighting Red-eye correction Trim Monochrome Filter effects Small picture Image overlay Page # 61, 63 6263 6263, 131 26, 65 74 64 65 7577 66 7577 6768 6973 6973 71, 73 73 110 111 111 112 112 112113 114115 Q & A Index ix Life-Long Learning As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available on-line at the following sites: · For users in the U.S.A.: <http://www.nikonusa.com/> · For users in Europe and Africa: <http://www.europe-nikon.com/support> · For users in Asia, Oceania, and the Middle East: <http://www.nikon-asia.com/> Visit these sites to keep up-to-date with the latest product information, tips, answers to frequently asked questions (FAQs), and general advice on digital imaging and photography. Additional information may be available from the Nikon representative in your area. See the following URL for contact information: <http://nikonimaging.com/x> Q & A Index Introduction Thank you for your purchase of a Nikon D80 single-lens reflex (SLR) digital camera with interchangeable lenses. This manual has been written to help you enjoy taking pictures with your Nikon digital camera.

Read this manual thoroughly before use, and keep it handy when using the product.



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To make it easier to find the information you need, the following symbols and conventions are used: This icon marks cautions, information that should be read before use to prevent damage to the camera. This icon marks notes, information that should be read before using the camera. This icon marks settings that can be adjusted using camera menus. This icon marks tips, additional information that may be helpful when using the camera.

This icon indicates that more information is available elsewhere in this manual or in the Quick Start Guide. This icon marks settings that can be finetuned from the Custom Settings menu. Lens An AF-S DX 18135 mm f/3.55.6G ED Zoom-Nikkor lens (purposes. 1 23 4 145) is used in this manual for illustrative 5 9 1. Focal length scale 2. Focus ring 3. Focal length index 8 7 6 7. A-M mode switch: 8.

Zoom ring: 21 9. Lens cap: 17, 19 11, 32 4. Mounting index: 11 5. Rear cap: 11 6. CPU contacts: 117 Introduction 1 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. Camera Body 22 20 19 1 33 2 3 4 5 6 31 7 8 9 10 11 15 14 13 12 32 23 24 25 26 21 27 28 30 29 18 17 16 1 Built-in flash

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. 64 QUAL (image quality/size) button....
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34, 35 (thumbnail) button
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... 63 ISO (ISO sensitivity) button ..
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.... 43 (help/protect) button .
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..... 58 (menu) button...

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... 48, 50 Exposure compensation value

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..... 54 Flash compensation value.

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..... 43 White balance fine-tuning, or color temperature.

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56, 140 2 ISO sensitivity indicator

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.. 43 ISO AUTO indicator

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... 43 3 Battery indicator

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..103, 132 23 Bracketing indicator ...

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..... 56 Large-Capacity Memory Cards 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 approximately 1,260 exposures, the exposure count display will show 1.2 K).

Introduction: Getting to Know the Camera 5 The Viewfinder Display 1 6 2 7 8 3 4 5 If the battery is totally exhausted or not inserted, the display in the viewfinder will dim. The viewfinder display will return to normal when a fully-charged battery is inserted. 9 10 11 12 13 14 15 16 17 18 19 20 21 22 1

Framing grid (displayed when On is selected for Custom Setting 8 (Grid display)) ...

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... 89 2 8-mm (0.31 in.) reference circle for centerweighted metering

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..... 52, 90 3 "No memory card" warning 1 ..

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.....15, 133 4 Battery indicator 1 .

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.... 19 5 Black-and-white indicator 1.....

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..... 81 6 Focus brackets (focus area) .

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...19, 21, 30 7 Normal-frame focus brackets (focus area) ..

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.... 21, 87 8 Wide-frame focus brackets (focus area) .

..... 87 9 Focus indicator

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..... 22 10 Flash value (FV) lock

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94 11 Autoexposure (AE) lock

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..... 94 12 Shutter speed ...

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..... 48, 50 13 Aperture (f-number)

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... 48, 50 1. Can be hidden with Custom Setting 9 (89) 14 Electronic analog exposure display

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50 Exposure compensation

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54 15 Flash compensation indicator.....

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..... 55 16 Exposure compensation indicator ..

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. 54 17 Number of exposures remaining

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..... 19 Number of shots remaining before memory buffer fills ...

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..... 36 Preset white balance recording indicator .

.. 60 Exposure compensation value

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..... 54 Flash compensation value..

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.... 55 PC connection indicator

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.... 68 18 Flash-ready indicator.

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.. 23 19 Auto ISO sensitivity indicator

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.. 43 20 Battery indicator

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... 56 22 "K" (appears when memory remains for over 1000 exposures)..

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..... 5 The Control Panel and Viewfinder The response times and brightness of the control panel and viewfinder may vary with temperature. Owing to the characteristics of this type of display, you may notice fine lines radiating outward from the selected focus area.

This is normal and does not indicate a malfunction. 6 Introduction: Getting to Know the Camera Supplied Accessories The MH-18a Quick Charger (12) The MH-18a is for use with the supplied EN-EL3e battery. CHARGE lamp AC adapter plug Wall plug (shape varies with country of sale) AC inlet The EN-EL3e Rechargeable Li-ion Battery (The EN-EL3e is for use with the D80. Negative terminal 12, 13) Signal contact Positive terminal Terminal cover The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal shown above could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking. 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 lenses, Speedlights, battery chargers, batteries, and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry. THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY. For more information about Nikon brand accessories, contact an authorized Nikon dealer. Introduction: Getting to Know the Camera 7 The Camera Strap Attach the camera strap as shown below. The BM-7 LCD Monitor Cover A clear plastic cover is provided with the camera to keep the monitor clean and protect it when the camera is not in use.

To attach the cover, insert the projection on the top of the cover into the matching indentation above the camera monitor () and press the bottom of the cover

until it clicks into place (). To remove the cover, hold the camera firmly and pull the bottom of the cover gently until outwards as shown at right. The DK-21 Viewfinder Eyepiece Cup Before attaching the DK-5 viewfinder eyepiece cap and other viewfinder accessories (122), remove the viewfinder eyepiece cup by placing your fingers underneath the flanges at either side and sliding it off as shown at right. 8 Introduction: Getting to Know the Camera Using Camera Menus Most shooting, playback, and setup options can be accessed from the camera menus. To view the menus, press the button. Choose from playback, shooting, Custom Settings, setup, and retouch menus (see below) If "?" icon is displayed, help for the current item can be viewed by pressing button Slider shows position in current menu Current setting for each option is shown by icon Current menu item is highlighted Menu Playback Shooting Custom Settings Setup Retouch Description Adjust playback settings and manage photos (74). Adjust shooting settings (79). Personalize camera settings (86). Format memory cards and perform basic camera setup (101). Create retouched copies of existing photographs (109).

The multi selector and OK button are used to navigate the camera menus. Move cursor up Increase number Return to previous menu Display sub-menu Move cursor down Decrease number Press OK to select highlighted option. Introduction: Using Camera Menus 9 To modify menu settings: 1 Display menus. 2 Highlight icon for current menu. 3 Select menu. 4 Position cursor in selected menu. 5 Highlight menu item. 6 Display options. 7 Highlight option. Menu items that are displayed in gray are not currently available.

8 Make selection. Press the shutter-release button halfway to exit the menus and return to shooting mode (19, 28). The monitor will turn off. Using the Command Dials The main command dial can be used to move the cursor up and down, the sub-command dial to move the cursor left and right. The sub-command dial can not be used to make a selection.

10 Introduction: Using Camera Menus First Steps Attaching a Lens Care should be taken to prevent dust from entering the camera when the lens is removed.

1 Turn the camera off. 2 Remove the rear cap from the lens. Remove the camera body cap. Keeping index lens aligned with the 3 mounting the mounting camera on the position the lens in the index on the body, camera's bayonet mount and rotate the lens in the direction shown until it clicks into place.

If the lens is equipped with an A-M or M/A-M switch, select A (autofocus) or M/A (autofocus with manual priority). Detaching Lenses Be sure the camera is off when removing or exchanging lenses. To remove the lens, press and hold the lens-release button while turning the lens clockwise. After removing the lens, replace the camera body cap and rear lens cover. Aperture Ring If the lens is equipped with an aperture ring (f-number). See the lens manual for details. 45,

117), lock aperture at the minimum setting (highest Introduction: First Steps 11 Charging and Inserting the Battery The supplied EN-EL3e battery is not charged at shipment.



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Charge the battery using the supplied MH-18a battery charger as described below. 1 Charge the battery. 1.

1 Remove the terminal cover from the battery. Liion BATTERY PACK 1.2 Connect the power cord to the charger and plug it in. 1.3 Place the battery in the charger. The CHARGE lamp will blink as the battery charges. About two and a quarter hours are required for an exhausted battery to fully charge. 1.4 Charging is complete when the CHARGE lamp stops blinking. Remove the battery from the charger and unplug the charger.

EN-EL3e Rechargeable Li-ion Batteries The EN-EL3e shares information with compatible devices. The camera uses this information to display the battery charge state in six levels in the control panel and to show the battery charge state, remaining battery life, and number of pictures taken since the battery was last charged in the setup menu Battery Info display (107). 12 Introduction: First Steps 2 Insert the battery. 2.1 After confirming that the camera is off, open the battery chamber cover.

2.2 Insert a fully charged battery as shown at right. Close the battery chamber cover. The Battery and Charger Read and follow the warnings and cautions on pages iiiii and 127128 of this manual, together with any warnings and instructions provided by the battery manufacturer. Use only EN-EL3e batteries.

The D80 is not compatible with the MS-D70 CR2 battery holder or with EN-EL3 or EN-EL3a batteries for D100, D70-series, or D50 cameras. Do not use the battery at ambient temperatures below 0 °C (32 °F) or above 40 °C (104 °F). During charging, the temperature should be in the vicinity of 535 °C (4195 °F).

For best results, charge the battery at temperatures above 20 °C (68 °F). Battery capacity may drop if the battery is used at a temperature below the temperature at which it was charged. If the battery is charged at a temperature below 5 °C (41 °F), the battery life indicator in the Battery Info display may show a temporary decrease. Removing the Battery Turn the camera off before removing the battery. To avoid shorting the battery, replace the terminal cover when the battery is not in use. Introduction: First Steps 13 Basic Setup The first time the camera is turned on, the language selection dialog shown in Step 1 will be displayed in the monitor. Follow the steps below to choose a language and set the time and date.

1 Turn camera on. 2 Select language. 3 Display map of world time zones. 4 Select local time zone. 5 Display daylight saving time options. 6 Highlight On if daylight saving time is in effect. 7 Display date menu. 8 Press multi selector left or right to select item, up or down to change. To change the order in which the year, month, and day are displayed, select World time > Date format from the setup menu (103). 9 Set clock and return to shooting mode.

Monitor will turn off automatically. Using Camera Menus The language menu is only displayed automatically the first time menus are displayed. See "Using Camera Menus" (910) for information on normal menu operation. 14 Introduction: First Steps Inserting Memory Cards The camera stores pictures on Secure Digital (SD) memory cards (available separately). 1 Insert a memory card.

1.1 Before inserting or removing memory cards, turn the camera off and open the card slot cover. 1.2 Slide the memory card in as shown at right until it clicks into place. The memory card access lamp will light for about a second.

Close the memory card slot cover. Front 1.3 Turn the camera on. If the control panel shows the number of exposures remaining, the card is ready for use. If the message shown at right is displayed in the monitor, format the card as described in "Camera Error Messages and Displays" (133). The Access Lamp Do not remove the battery or disconnect the power source while the memory card access lamp is lit. Failure to observe this precaution could result in damage to the card. The Write Protect Switch SD cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" position, the camera will display a message to warn that photos can not be recorded or deleted and the memory card can not be formatted. Introduction: First Steps 15 be the rst 2 Memory cards must theformattedcard,fiturntime they are used in the D80.

To format memory the camera on and press the (and) buttons until control panel and viewfinder displays flash as shown at right. Pressing both buttons together a second time will format the memory card. During formatting, the letters will appear in the frame-count display. Do not turn the camera off or remove the battery until formatting is complete, the monitor has turned off, and the control panel shows the number of exposures remaining. Formatting Memory Cards Format cards in the camera. Performance may drop if they are formatted in a computer. Formatting memory cards permanently deletes all photographs and other data they may contain. Be sure all data you wish to keep have been copied to another storage device before formatting the card.

Removing Memory Cards 1. Confirm that the access lamp is off.

2. Turn the camera off and open the memory card slot cover. 3. Press the card in to eject (). The card can then be removed by hand ().

Camera Off Display If the camera is turned off with a battery and memory card inserted, the number of exposures remaining will be displayed in the control panel. If no and a icon memory card is inserted, the control panel will show will be displayed in the viewfinder. 16 Introduction: First Steps Adjusting Viewfinder Focus Photographs are framed in the viewfinder. Before shooting, make sure that the display in the viewfinder is in clear focus. Viewfinder Focus Viewfinder focus (diopter) can be adjusted in the range 2 +1 m-1.

Corrective lenses (available separately; 122) allow diopters of 5 +3 m -1. 1 Remove the lens cap and turn the camera on. the diopter adjustment control until the 2 Rotate in sharp focus. When operating the diopterfocus brackets are adjustment control with your eye to the viewfinder, be careful not to put your fingers or fingernails in your eye. Focus brackets Introduction: First Steps 17 Tutorial Photography and Playback The Tutorial outlines the basics of taking and viewing photographs in (auto) and Digital Vari-Program modes. This section assumes that default camera settings are used; for information on restoring default settings, see page 134. Use a CPU Lens (auto) and Digital Vari-Program modes are only available with CPU lenses. If these modes are selected when a non-CPU lens is attached, the shutter release will be disabled. Auto Meter Off At default settings, the viewfinder display and the aperture and shutter-speed indicators in the control panel will turn off if no operations are performed for about six seconds (auto meter off), reducing the drain on the battery.



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Press the shutter-release button halfway to reactivate the display.

6s Exposure meters on Exposure meters off Exposure meters on The length of time before the exposure meters turn off automatically can be adjusted using Custom Setting 28 (Auto meter off; 99). 18 Tutorial "Point-and-Shoot" Photography (Mode) This section describes how to take photographs in (auto) mode, an automatic "point-and-shoot" mode in which the majority of settings are controlled by the camera in response to shooting conditions. 1 Turn the camera on. 1.1 Remove the lens cap and turn the camera on. The control panel and viewfinder displays will light. The monitor remains off during shooting. 1.2 Check the battery level in the viewfinder or control panel. Control panel Viewfinder -- -- Description Battery fully charged.

Battery partially discharged. Low battery. Ready fully-charged spare battery. (blinks) (blinks) Shutter release disabled. Change battery.

Battery level not displayed when camera is powered by optional AC adapter. 1.3 The exposure count displays in the control panel 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, the display will flash as shown at right.

No further pictures can be taken until the memory card has been replaced (15) or photographs have been deleted (26, 65, 74). Tutorial: "Point-and-Shoot" Photography (Mode) 19 2 Select mode and choose autofocus. . 2.1 Rotate the mode dial to 2.2 Rotate the focus-mode selector to AF (autofocus). 3 Check settings in the control panel. The default settings for Option Flash sync mode Image quality Image size Shooting mode Autofocus mode AF-area mode mode are listed below. Default Auto JPEG Normal Large Single frame Auto select Auto-area AF 40 34 35 36 29 30 20 Tutorial: "Point-and-Shoot" Photography (Mode) 4 Frame a photograph in the viewfinder. The monitor remains off during shooting.

4.1 Hold the camera as shown. Holding the Camera 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 you upper body stable. 4.2 Frame a photo in the viewfinder with the main subject positioned in any of the eleven focus areas. Focus area Using a Zoom Lens Zoom in 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 out Tutorial: "Point-and-Shoot" Photography (Mode) 21 5 Focus. 5.1 Press the shutter-release button halfway to focus.

The camera will select the focus area automatically. If the subject is dark, the flash may pop up and the AF-assist illuminator may light. 5.2 When the focus operation is complete, the selected focus areas will be briefly highlighted, a beep will sound, and the in-focus indicator () will appear in the viewfinder (the beep may not sound if the subject is moving). While the shutter-release button is pressed halfway, focus will lock and the number of exposures that can be stored in the memory buffer will be displayed in the viewfinder.

Shutter speed Aperture Selected focus area In-focus indicator Shutter speed Aperture Viewfinder In-focus indicator (blinks) Description Subject in focus. Buffer capacity Control panel Camera unable to focus on subject in focus area using autofocus. 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.

Focus Take photograph 22 Tutorial: "Point-and-Shoot" Photography (Mode) 6 Take the photograph. 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. Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete. 7 Turn the camera off when shooting is complete. Camera Off Display If the camera is turned off with a battery and memory card inserted, the number of exposures remaining will be displayed in the control panel. The Built-in Flash If additional lighting is required for correct exposure in mode, the built-in flash will pop up automatically when the shutter-release button is pressed halfway. Flash range varies with aperture and ISO sensitivity (141); remove lens hoods when using the flash. If the flash is raised, photographs can only be taken when the flash-ready indicator () is displayed. If the flash-ready indicator is not displayed, 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. For more information on using the flash, see page 40. Tutorial: "Point-and-Shoot" Photography (Mode) 23 Creative Photography (Digital Vari-Programs) In addition to , the D80 offers a choice of six Digital Vari-Program modes. Selecting a program automatically optimizes settings to suit the selected scene, making creative photography as easy as rotating the mode dial. Mode Portrait Landscape Close up Sports Night landscape Night portrait Description For portraits. For natural and man-made landscapes. For close up shots of flowers, insects, and other small objects. For moving subjects. For low-light or night scenes. For portraits taken under low light.

To take photographs in Digital Vari-Program modes: 1 Rotate the mode dial to select a Digital Vari-Program mode. 2 Frame a photograph, focus, and shoot. Focus Area At default settings, the camera selects the focus area as follows: · , , and modes: The camera selects the focus area automatically. · mode: The camera focuses on the subject in the center focus area. Other focus areas can be selected with the multi selector (30).

· mode: The camera focuses continuously while the shutter-release button is pressed halfway, tracking the subject in the center focus area. If the subject leaves the center focus area, the camera will continue to focus based on information from the other focus areas. The starting focus area can be selected with the multi selector (30). The Built-in Flash If additional lighting is required for correct exposure in , , or automatically when the shutter-release button is pressed halfway. mode, the built-in flash will pop 24 Tutorial: Creative Photography (Digital Vari-Programs) Portrait Use for portraits with soft, natural-looking skin tones.



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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. Landscape Use for vivid landscape shots. The built-in flash and AF-assist illuminator turn off automatically. Close Up Use for close-up shots of flowers, insects, and other small objects. The camera automatically focuses on the subject in the center focus area. Use of a tripod is recommended to prevent blur. Sports High 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 automatically. Night Landscape Slow shutter speeds are used to produce stunning night landscapes. The built-in flash and AF-assist illuminator turn off automatically; use of a tripod is recommended to prevent blur.

Night Portrait Use for a natural balance between the main subject and the background in portraits taken under low light. Tutorial: Creative Photography (Digital Vari-Programs) 25 Basic Playback Photographs are automatically displayed for about four seconds after shooting. If no photograph is displayed in the monitor, the most recent picture can be viewed by pressing the button. Additional pictures can be displayed by rotating the main command dial or pressing the multi selector left or right. Press the multi selector up or down to view highlights or additional shooting information about the current photograph (6263). To end playback and return to shooting mode, press the shutter-release button halfway. Deleting Unwanted Photographs To delete the photograph currently displayed in the monitor, press the button. A confirmation dialog will be displayed. Press the button again to delete the image and return to playback. To exit without deleting the picture, press the button.

26 Tutorial: Basic Playback Reference This section builds on the Tutorial to cover more advanced shooting and playback options. More on Photography (All Modes): Adjust image quality and size Take photographs in one at a time, in bursts, or using the self-timer or a remote control Use the built-in flash Raise ISO sensitivity when lighting is poor Restore default settings 28 Focus: Image Quality and Size: Choosing a Shooting Mode: Using the Built-in Flash: ISO Sensitivity: Two-Button Reset: 28 33 36 40 43 44 Shoot a moving subject or focus manually P, S, A, and M Modes: 45 Mode P (Programmed Auto): Mode S (Shutter-Priority Auto): Mode A (Aperture-Priority Auto): Mode M (Manual): Exposure: White Balance: 47 48 49 50 52 58 Let the camera choose shutter speed and aperture Freeze or blur motion Choose whether to blur background objects Choose shutter speed and aperture manually Choose a metering method, lock exposure, adjust exposure and flash level Make colors look natural Take photos under unusual lighting See the Menu Guide for information on other operations that can only be performed in P, S, A, and M modes, including customizing sharpening, contrast, color saturation, and hue ("Optimize Image"; 79) and creating multiple exposures ("Multiple Exposure"; 84). More on Playback: 61 Viewing Photographs on the Camera: 74). 61 View photographs on the camera See the Menu Guide for other playback options (Connecting to a TV, Computer, or Printer: View photographs on TV Copy photographs to a computer Print photographs 66 Viewing Photographs on TV: Connecting to a Computer: Printing Photographs: 66 67 69 Reference 27 More on Photography (All Modes) Focus Focus can be adjusted automatically (see "Autofocus," below) or manually (32). The user can also select the focus area for automatic or manual focus (30) or use focus lock to focus to recompose photographs after focusing (31).

Autofocus Controls used: Focus mode selector When the focus mode selector is set to AF, the camera focuses automatically when the shutter-release button is pressed halfway. In single-area AF, a beep will sound when the camera focuses. No beep will sound when AF-A is selected in (sports) mode or when continuous-servo autofocus is used (note that continuous-servo autofocus may be selected automatically when shooting moving subjects in AF-A autofocus mode). If the lens does not support autofocus or the camera is unable to focus using autofocus, use manual focus (32). A-M Selection/Autofocus with Manual Priority If the lens is equipped with A-M selection or an M/A-M switch, select A (autofocus) or M/A (autofocus with manual priority).

The AF-Assist Illuminator If the subject is poorly lit, the AF-assist illuminator will light automatically to assist the autofocus operation when the shutter-release button is pressed halfway. The AF-assist illuminator will not light in , , or modes or if Off has been selected for Custom Setting 4 (AF assist; 87). The illuminator has a range of about 0.53.0 m (1 ft. 8 in. 9 ft. 10 in.); when using the illuminator, use a lens with a focal length of 24200 mm and remove the lens hood. 1 -- Beep (86) This option can be used to turn the beep speaker on or off.

28 Reference: More on Photography (All Modes) / Focus Autofocus Mode Autofocus mode Controls used: button The following autofocus modes are available when the focus mode selector is set to AF: Description Camera automatically selects single-servo autofocus when subject is stationary, continuous-servo autofocus when subject is moving. Shutter can (default setting) only be released if camera is able to focus. For stationary subjects.

Focus locks when shutter-release button is pressed AF-S Single-servo AF halfway. Shutter can only be released when in-focus indicator is displayed. For moving subjects. Camera focuses continuously while shutter-release Continuous-servo AF-C button is pressed halfway. Photographs can be taken even when in-focus AF indicator is not displayed. To choose the autofocus mode, press the setting is displayed. button until the desired Getting Good Results with Autofocus Autofocus does not perform well under the conditions listed below.

The shutter release may be disabled if the camera is unable to focus under these conditions, or the in-focus indicator () may be displayed and the camera may sound a beep, allowing the shutter to be released even when the subject is not in focus. In these cases, use manual focus (32) or use focus lock (31) to focus on another subject at the same distance and then recompose the photograph. There is little or no contrast The focus area contains obbetween the subject and the jects at different distances background from the camera Example: Subject is the same color as the background. The subject is dominated by regular geometric patterns Example: Subject is inside a cage. The focus area contains areas of sharply contrasting brightness Example: Subject is half in the shade. The subject contains many fine details Example: A row of windows in a skyscraper.



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The subject appears smaller than the focus area Example: Focus area contains both foreground and distant buildings. are small or lack variation in brightness. Reference: More on Photography (All Modes) / Focus 29 Focus Area Selection Controls used: Multi selector (monitor off) The D80 offers a choice of eleven focus areas that together cover a wide area of the frame. At the default settings, the camera chooses the focus area automatically or focuses on subject in the center focus area.

The focus area can also be selected manually to compose photographs with the main subject positioned almost anywhere in the frame. Focus is selected automatically in 1 At ,default, settings, themodes.area enable manual focus selec, , and To tion in these modes, select Single Area or Dynamic Area for Custom Setting 2 (AF-Area Mode; 87). Slide selector lock to the 2 multi the focus to be used to select "" position. This allows the selector the focus area. Use the multi selector in 3 or control panel while to select the focus area are the viewfinder the exposure meters active (18). The focus selector lock can be returned to the "L" (locked) position following selection to prevent the selected focus area from changing when the multi selector is pressed. Custom Settings Custom Setting 2 (AF-Area Mode; 87) controls how the camera selects the focus area. Custom Setting 3 (Center AF Area; 87) controls the size and number of focus areas available. Custom Setting 18 (AE-L/AF-L; 94) determines allows the AE-L/AF-L button to be used to select the focus area.

Custom Setting 20 (Focus Area; 94) controls whether focus area selection "wraps around." Custom Setting 21 (AF Area Illumination; 95) controls whether the active focus area is highlighted in the viewfinder. 30 Reference: More on Photography (All Modes) / Focus Focus Lock Controls used: AE-L/AF-L button (AF-A/AF-C)/Shutter-release button (AF-S) Focus lock can be used to change the composition after focusing, making it possible to focus on a subject that will not be in a focus area in the final composition. It can also be used when the autofocus system is unable to focus (29). the selected focus area 1 Position the subject in halfway to initiate focus. and press the shutter-release button 2 Check that the in-focus indicator () appears in the viewfinder. AF-A and AF-C autofocus modes (29) Press the AE-L/AF-L button to lock both focus and exposure. Focus will remain locked while the AE-L/AF-L button is pressed, even if you later remove your finger from the shutter-release button. AF-S autofocus modes (29) Focus will lock automatically when the in-focus indicator appears, and remain locked until you remove your finger from the shutter-release button. Focus can also be locked by pressing the AE-L/AF-L button (see below). An AE-L icon will be displayed in the viewfinder. 3 Recompose the photograph and shoot. Focus will remain locked between shots as long as the shutter-release button is kept pressed halfway, allowing several photographs in succession to be taken at the same focus setting. Focus will also remain locked between shots while the AE-L/AF-L button is pressed. Do not change the distance between the camera and the subject while focus lock is in effect.

If the subject moves, focus again at the new distance. Continuous Shooting Mode (36) Use the AE-L/AF-L button to lock focus in continuous shooting mode. 18 -- AE-L/AF-L (94) This option controls the behavior of the AE-L/AF-L button. Reference: More on Photography (All Modes) / Focus 31 Manual Focus Controls used: Focus mode selector/lens focusing ring Manual focus is available for lenses that do not support autofocus (non-AF Nikkor lenses) or when autofocus does not produce the desired results (29). To focus manually, set the focus-mode selector to M and adjust the lens focusing ring until the image displayed on the clear matte field in the viewfinder is in focus.

Photographs can be taken at any time, even when the image is not in focus. When using a lens that offers A-M selection, select M when focusing manually. With lenses that support M/A (autofocus with manual priority), focus can be adjusted manually with the lens set to M or M/A. See the documentation provided with your lens for details. The Electronic Rangefinder If the lens has a maximum aperture of f/5.6 or faster, the viewfinder focus indicator can be used to confirm whether the portion of the subject in the selected focus area is in focus. After positioning the subject in the active focus area, press the shutter-release button halfway and rotate the lens focusing ring until the in-focus indicator () is displayed. Note that if the subject is one for which autofocus does not perform well (29), the in-focus indicator may be displayed when the subject is not in focus. Confirm that the image in the viewfinder is in focus before shooting. Focal Plane Position To determine the distance between your subject and the camera, measure from the focal plane mark on the camera body.

The distance between the lens mounting flange (11) and the focal plane is 46.5 mm (1.83 in.). 32 Reference: More on Photography (All Modes) / Focus Image Quality and Size Together, image quality and size determine how much space each photograph occupies on the memory card. Larger, higher quality images can be printed at larger sizes but also require more memory, meaning that fewer such images can be stored on the memory card. Image Quality and Size le efi rg ze La si JPEG Fine Changes to image quality and size are reflected in the number of exposures remaining as displayed in the control panel and viewfinder (19). Image Quality, Image Size, and File Size See the Appendix for information on the number of pictures that can be stored on a memory card (138). High < Image quality > Low JPEG Normal JPEG Basic file all e Sm siz S M Small < Image size > Large L Reference: More on Photography (All Modes) / Image Quality and Size 33 Image Quality Controls used: button + main command dial (monitor off) The camera supports the following image quality options (listed in descending order by image quality and file size): Description Compressed raw data from the image sensor are saved directly to memory card. NEF (RAW) Choose for images that will be processed on a computer.

Images are compressed less than JPEG Normal, producing higher-quality images. JPEG Fine Compression ratio: roughly 1 : 4. JPEG Normal Best choice in most situations. Compression ratio: roughly 1 : 8. (default) JPEG Basic Smaller file size suited to e-mail or the Web.

Compression ratio: roughly 1 : 16. NEF (RAW) + Two images are recorded: one NEF (RAW) image and one fine-quality JPEG image. JPEG Fine NEF (RAW) + Two images are recorded: one NEF (RAW) image and one normal-quality JPEG image. JPEG Normal age. NEF (RAW) + Two images are recorded: one NEF (RAW) image and one basic-quality JPEG image.



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