



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D7000. You'll find the answers to all your questions on the NIKON D7000 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D7000  
User guide NIKON D7000  
Operating instructions NIKON D7000  
Instructions for use NIKON D7000  
Instruction manual NIKON D7000

**Nikon**

DIGITAL CAMERA  
**D7000**  
User's Manual

En



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<http://yourpdfguides.com/dref/5477757>

**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](http://www.nikondigitutor.com/index_eng.html) Q&A Index Table of Contents 0 ii 0 iv 0 I X Introduction s Basic Photography and Playback x Live View y Recording and Viewing Movies # P, S, A, and M Modes \$ User Settings: U1 and U2 Modes k Release Mode d Image Recording Options N Focus S ISO Sensitivity Z Exposure/Bracketing r White Balance J Image Enhancement l Flash Photography t Other Shooting Options I More on Playback Q Connections U Menu Guide n Technical Notes 0 35 0 49 0 57 0 67 0 75 0 77 0 85 0 91 0 101 0 105 0 117 0 131 0 143 0 151 0 163 0 179 0 195 0 269 i Q&A Index Find what you're looking for using this "question and answer" index. Taking Photographs i Shooting Modes and Framing Options Is there a quick and easy way to take snapshots (i mode)? How do I quickly adjust settings for different scenes? Can I choose a shutter speed (mode S)? Can I choose an aperture (mode A)? How do I make long ("time") exposures (mode M)? Can I frame photos in the monitor? Can I shoot movies? 0 3539 4045 69 70 73 4955 5761 7, 77 80 7, 77 9195 96 i Release Modes Can I take photos one at a time or in quick succession? How do I take pictures with the self-timer or a remote control? Can I reduce shutter noise in quiet surroundings? i Focus Can I choose how the camera focuses? Can I choose the focus point? i Image Quality and Size How do I take pictures for printing at large sizes? How can I get more pictures on the memory card? 8588 i Exposure Can I make photos brighter or darker? How do I preserve details in shadows and highlights? 107 139 i Using the Flash Can I set the flash to fire automatically when needed? How do I keep the flash from firing? How do I avoid "red-eye"? 143145 Viewing Photographs i Playback How do I view photographs on the camera? How do I view more information about a photo? Can I view photos in an automatic slide show? Can I view photos on a TV? Can I protect photos from accidental deletion? 0 46, 163 165170 201 191194 174 47, 175177 i Deletion How do I delete unwanted photos? ii Retouching Photographs How do I create retouched copies of photos? How do I remove "red-eye"? How do I make JPEG copies of RAW (NEF) photos? Can I overlay two NEF (RAW) photos to make a single image? Can I create a copy of a photo that looks like a painting? Can I trim movie footage on the camera? 0 248264 251 258 256257 262 6366 Menus and Settings How do I use the menus? How do I display menus in another language? How do I use the command dials? How do I keep the displays from turning off? How do I focus the viewfinder? Can I display a framing grid in the viewfinder or the monitor? How do I tell if the camera is level? How do I set the camera clock? How do I format memory cards? How do I restore default settings? How do I get help for a menu or message? 0 1820 27, 238 1316 215 34 53, 216 245 27, 237 32, 236 151, 202, 207 18, 305 Connections How do I copy photos to a computer? How do I print photos? Can I print the date of recording on my photos? 0 179181 182190 184, 190 Maintenance and Optional Accessories 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? What do I do with the supplied eyepiece cap? How do I clean the camera? Where should I take my camera for servicing and repairs? 0 319 269 275 280281 81 283 iii Table of Contents Q&A Index .....

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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 charger · Keep dry. Failure to observe this precaution could result in fire or electric shock.

· Do not short the charger terminals. Failure to observe this precaution could result in overheating and damage to the charger. · Dust on or near the metal parts of the plug should be removed with a dry cloth. Continued use could result in fire. · Do not handle the power cable or go near the charger during thunderstorms. Failure to observe this precaution could result in electric shock. · Do not damage, modify, or forcibly tug or bend the power cable. Do not place it under heavy objects or expose it to heat or flame. Should the insulation be damaged and the wires become exposed, take the power cable to a Nikon-authorized service representative for inspection. Failure to observe this precaution could result in fire or electric shock.

· Do not handle the plug or charger with wet hands. Failure to observe this precaution could result in electric shock. · Do not use with travel converters or adapters designed to convert from one voltage to another or with DC-to-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire. A Use appropriate cables When connecting cables to the input and output jacks, use only the cables provided or sold by Nikon for the purpose to maintain compliance with product regulations. A CD-ROMs CD-ROMs containing software or manuals should not be played back on audio CD equipment. Playing CD-ROMs on an audio CD player could cause hearing loss or damage the equipment. xiii Notices · No part of the manuals included with this · Nikon will not be held liable for any product may be reproduced, transmitted, damages resulting from the use of this transcribed, stored in a retrieval system, or product. translated into any language in any form, by · While every effort has been made to ensure any means, without Nikon's prior written that the information in these manuals is permission. accurate and complete, we would appreciate it were you to bring any errors or · Nikon reserves the right to change the specifications of the hardware and software omissions to the attention of the Nikon described in these manuals at any time and representative in your area (address without prior notice.

provided separately). Notices for Customers in Canada CAUTION This Class B digital apparatus complies with Canadian ICES-003. Notices for Customers in Europe CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. This symbol indicates that this product is to be collected separately.

The following apply only to users in European countries: · This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste. · For more information, contact the retailer or the local authorities in charge of waste management. This symbol on the battery indicates that the battery is to be collected separately. The following apply only to users in European countries: · All batteries, whether marked with this symbol or not, are designated for separate collection at an appropriate collection point.

Do not dispose of as household waste. · For more information, contact the retailer or the local authorities in charge of waste management. ATTENTION Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. xiv Notices for Customers in the U.S.A. Power Cable At voltages over AC 125 V (U.S.A. only): The power cable must be rated for the voltage in use, be at least AWG no.

18 gauge, and have SVG insulation or better with a NEMA 6P-15 plug rated for AC 250 V 15 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. D7000 These limits are designed to provide reasonable protection against harmful CAUTIONS interference in a residential installation. This Modifications equipment generates, uses, and can radiate The FCC requires the user be notified that any radio frequency energy and, if not installed changes or modifications made to this device and used in accordance with the instructions, that are not expressly approved by Nikon may cause harmful interference to radio Corporation may void the user's authority to communications. However, there is no operate the equipment. guarantee that interference will not occur in a particular installation. If this equipment does Interface Cables Use the interface cables sold or provided by cause harmful interference to radio or television reception, which can be determined Nikon for your equipment. Using other by turning the equipment off and on, the user interface cables may exceed the limits of Class B Part 15 of the FCC rules. is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver.

· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/television technician for help. 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. Nikon Inc. , 1300 Walt Whitman Road, Melville, New York 11747-3064, U.S.A. Tel.: 631-547-4200 xv Notice Concerning Prohibition of Copying or Reproduction Note that simply being in possession of material that has been digitally copied or reproduced by means of a scanner, digital camera, or other device may be punishable by law.

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SEE <http://www.mpegla.com> 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" 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://imaging.nikon.com/> A A xvii xviii Introduction X Overview Thank you for your purchase of a Nikon single-lens reflex (SLR) digital camera. To get the most from your camera, please be sure to read all instructions thoroughly and keep them where they will be read by all who use the product. X Symbols and Conventions To make it easier to find the information you need, the following symbols and conventions are used: D A 0 D This icon marks cautions; information that should be read before use to prevent damage to the camera. This icon marks notes; information that should be read before using the camera. This icon marks references to other pages in this manual. Use Only Nikon Brand Accessories Only Nikon brand accessories certified by Nikon specifically for use with your Nikon digital camera are engineered and proven to operate within its operational and safety requirements. THE USE OF NON-NIKON ACCESSORIES COULD DAMAGE YOUR CAMERA AND MAY VOID YOUR NIKON WARRANTY. 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. 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. X The Camera Body 1 2 3 4 5 6 7 8 Release mode dial....

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.....24 The Microphone and Speaker Do not place the microphone or speaker in close proximity to magnetic devices.  
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10, 12, 53 5 The Mode Dial The camera offers a choice of the following modes: Mode dial X P, S, A, and M Modes Select these modes for full control over camera settings. · P--Programmed auto (0 68) · S--Shutter-priority auto (0 69) · A--Aperture-priority auto (0 70) · M--Manual (0 71) Auto Modes Select these modes for simple, point-and-shoot photography. · i Auto (0 35) · j Auto (flash off) (0 35) Scene Modes (0 40) The camera automatically optimizes settings to suit the selected scene. Match your selection to the scene being photographed. U1 and U2 Modes (0 75) Store and recall customized shooting settings.

A Non-CPU Lenses Non-CPU (0 270) lenses can be used only in modes A and M. Selecting another mode when a non-CPU lens is attached disables the shutter release. 6 The Release-Mode Dial To choose a release mode, press the release mode dial Release mode dial lock release lock release and turn the release mode dial to the desired setting (0 77). X Release mode dial Mode Description One photograph is taken each time the shutter-release button is pressed. S CL CH J E 4 MUP Single frame The camera takes photographs at about 1 to 5 Continuous low speed frames per second while the shutter-release button is pressed.

The camera takes photographs at up to 6 frames Continuous high speed per second while the shutter-release button is pressed. Quiet shutter-release As for single-frame, except that camera noise is reduced. Take pictures with the self-timer. Take pictures with an optional ML-L3 remote control. Raise the mirror before taking photographs. Self-timer Remote control Mirror up 7 The Control Panel 3 4 5 6 7 8 9 10 11 MB-D11 battery indicator .....

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36 \* *Display can be turned off with Custom Setting d4. 15 16 17 18 19 20 21 22 23 Flash-ready indicator .....*

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*.....39, 219 FV lock indicator..*

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*149 Flash sync indicator .....*

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*. 222 Aperture stop indicator ....*

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*....70, 270 Exposure indicator.*

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*72 Exposure compensation display .....*

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*... 107 Tilt indicator .....*

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*.. 231 Flash compensation indicator .....*

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*..... 148 Exposure compensation indicator.*

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*.... 107 Auto ISO sensitivity indicator.*

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... 104 Number of exposures remaining ..

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

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38, 79 ISO sensitivity.....

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..... 101 Preset white balance recording indicator...

.... 124 Exposure compensation value .

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107 Flash compensation value .....

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.... 148 Active D-Lighting amount .

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... 139 AF-area mode ..

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..94 No Battery When the battery is totally 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 Control Panel and Viewfinder Displays The brightness of the control panel and viewfinder displays varies with temperature, and the response times of the displays may drop at low temperatures. This is normal and does not indicate a malfunction. 9 The Information Display Press the R button to display shutter speed, aperture, the number of exposures remaining, AF-area mode, and other shooting information in the monitor.



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*X R button 8 Exposure indicator .....*

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*... 72 Exposure compensation display..*

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*..... 107 Bracketing progress indicator Exposure and flash bracketing ...*

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*109 WB bracketing .....*

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*..... 95 Focus points indicator.....*

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*...37, 96 AF-area mode indicator..*

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*.... 95 3D-tracking indicator .....*

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*..... 94 10 ISO sensitivity indicator .*

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*... 101 Auto ISO sensitivity indicator..*

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*.. 104 11 "K" (appears when memory remains for over 1000 exposures) ...*

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.... 89 20 Image size .....

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88 21 Flash mode .....

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. 144 Shooting mode....

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6 Flexible program indicator .....

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.68 Flash sync indicator ....

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.. 222 Shutter speed .....

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.... 69, 71 Exposure compensation value .....

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107 Flash compensation value.....

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.... 148 Number of shots in bracketing sequence .....





... 162 30 Metering..

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.... 105 31 Depth-of-field preview button assignment .  
.. 232 32 Color space .....

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... 141 33 Active D-Lighting indicator .....

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..... 139 34 High ISO noise reduction indicator .....

... 205 35 Movie quality ..

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...60 36 Autofocus mode..

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.....91 37 Copyright information..

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.... 243 38 "Clock not set" indicator.

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.28, 237 39 Image comment indicator .....

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..... 238 40 Release mode.....

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..... 149 43 Flash compensation indicator .

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..... 148 44 Exposure compensation indicator....

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..... 107 22 "Beep" indicator ....

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....215 23 Multiple exposure indicator.

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.153 24 Exposure and flash bracketing indicator .....

109 WB bracketing indicator .....

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.....112 ADL bracketing indicator..

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114 25 ADL bracketing amount.....

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. 232 Picture Control .....

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..... 132 Long exposure noise reduction....

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.205 Auto distortion control .....

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. 205 Tool Tips A tool tip giving the name of the selected item appears in the information display. Tool tips can be turned off using Custom Setting d5 (Screen Tips; 0 216). A 12 The Command Dials The main- and sub-command dials are used alone or in combination with other controls to adjust a variety of settings.

M/Y button Flash mode Flash compensation D button Bracketing AF-mode button Autofocus mode AF-area mode X Sub-command dial E button Exposure compensation Mode dial Main command dial Z button Metering WB/L button White balance ISO/W button ISO sensitivity QUAL/X button Image quality/size 13 Scene Mode Choose a scene (h; 0 41). X h mode Main command dial Monitor Image Quality and Size Set image quality (0 86). + QUAL button Choose an image size (0 88). Main command dial Control panel + QUAL button Sub-command dial Control panel Autofocus Choose an autofocus mode (0 92). + AF-mode button Main command dial Control panel Choose an AF-area mode (0 95). + AF-mode button Sub-command dial Control panel ISO Sensitivity Set ISO sensitivity (0 101).

+ ISO button Main command dial Control panel 14 Exposure Choose a combination of aperture and shutter speed (mode P; 0 68). Mode P Choose a shutter speed (mode S or M; 0 69, 71). Main command dial Control panel X Mode S or M Choose an aperture (mode A or M; 0 70, 71). Main command dial Control panel Mode A or M Choose a metering option (mode P, S, A, or M; 0 105). Sub-command dial Control panel + Z button Main command dial Control panel Set exposure compensation (mode P, S, A, or M; 0 107).

+ E button Main command dial Control panel Activate or cancel bracketing/ select number of shots in bracketing sequence (mode P, S, A, or M; 0 109, 112, 114). D button + Main command dial Control panel 15 Select bracketing increment (mode P, S, A, or M; 0 110, 112). + D button Sub-command dial Control panel X White Balance Choose a white balance option (mode P, S, A, or M; 0 117). + WB button Main command dial Control panel Fine-tune white balance (0 120), set color temperature (0 122), or choose a white balance preset (0 128) in mode P, S, A, or M. WB button + Sub-command dial Control panel Flash Settings Choose a flash mode (0 144).

+ M button Set flash compensation (mode P, S, A, or M; 0 148). Main command dial Control panel + Y button Sub-command dial Control panel 16 The BM-11 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 (q) and press the bottom of the cover until it clicks into place (w). X To remove the cover, hold the camera firmly and pull the bottom of the cover gently outwards as shown at right. 17 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 X Tabs Choose from the following menus: · D: Playback (0 195) · C: Shooting (0 202) · A: Custom Settings (0 206) · B: Setup (0 236) · N: Retouch (0 248) · O/m: My Menu or Recent settings (defaults to My Menu; 0 265) 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 L 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. L button d 18 Using Camera Menus The multi selector and J button are used to navigate the camera menus.



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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.

4 Position the cursor in the selected menu. Press 2 to position the cursor in the selected menu. 19 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 39). 20 First Steps Charge the Battery The camera is powered by an EN-EL15 rechargeable Li-ion battery (supplied). To maximize shooting time, charge the battery in the supplied MH-25 battery charger before use. About 2 hours and 35 minutes are required to fully recharge the battery when no charge remains. X 1 Connect the AC power cable or wall adapter. Connect the power cable as shown at right. Use the AC adapter plug in the position shown; do not rotate.

Depending on the country or region of purchase, an AC wall adapter may also be supplied with the charger. To use the adapter, insert it into the charger AC inlet (q). Slide the AC wall adapter latch in the direction shown (w) and rotate the adapter 90 ° to fix it in the position shown (e). Reverse these steps to remove the adapter. AC wall adapter latch 90 ° 2 Remove the terminal cover. Remove the terminal cover from the battery. 21 3 Insert the battery. Place the battery in the battery bay as shown in the illustration on the charger. X 4 Plug the charger in. The CHARGE lamp will blink while the battery charges. Battery charging Charging complete D Charging the Battery Charge the battery indoors at ambient temperatures between 535°C (4195°F). The battery will not charge if its temperature is below 0°C (32°F) or above 60°C (140°F). 5 Remove the battery when charging is complete. Charging is complete when the CHARGE lamp stops blinking. Unplug the charger and remove the battery.

22 D The Battery and Charger Read and follow the warnings and cautions on pages xixiii and 289291 of this manual. Do not use the battery at ambient temperatures below 0°C/32°F or above 40°C/104°F; failure to observe this precaution could damage the battery or impair its performance. Capacity may be reduced and charging times may increase at battery temperatures from 0°C/32°F to 15°C/59°F and from 45°C/113°F to 60°C/140°F. Do not move the charger or touch the battery during charging. Failure to observe this precaution could in very rare instances result in the charger showing that charging is complete when the battery is only partially charged.

Remove and reinsert the battery to begin charging again. If the CHARGE lamp flickers (i.e., flashes about eight times a second) during charging, confirm that the temperature is in the correct range and then unplug the charger and remove and reinsert the battery. If the problem persists, cease use immediately and take battery and charger to your retailer or a Nikon-authorized service representative. The supplied power cable and AC wall adapter are for use with the MH-25 only. Use the charger with compatible batteries only. Unplug when not in use. EN-EL15 Rechargeable Li-ion Batteries The supplied EN-EL15 shares information with compatible devices, enabling the camera to show battery charge state in six levels (0 35). The Battery info option in the setup menu details battery charge, battery life, and the number of pictures taken since the battery was last charged (0 242).

X A 23 Insert the Battery 1 X Turn the camera off. D Inserting and Removing Batteries Always turn the camera off before inserting or removing batteries. 2 Open the battery-chamber cover. Unlatch (q) and open (w) the battery-chamber cover. 3 Insert the battery. Insert the battery in the orientation shown (q), using the battery to keep the orange battery latch pressed to one side. The latch locks the battery in place when the battery is fully inserted (w). Battery latch 4 Close the battery-chamber cover. A Removing the Battery Turn the camera off and open the battery-chamber cover. Press the battery latch in the direction shown by the arrow to release the battery and then remove the battery by hand.

24 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 18105mm f/3.55.6G ED VR. Focal length scale Lens hood (0 317) Lens cap Mounting mark Focal length mark CPU contacts (0 269) Rear lens cap A-M switch (see below) Zoom ring VR (vibration reduction) switch (0 26) Focus ring (0 55, 99) X 1 2 Turn the camera off.

Remove the rear lens cap and the camera body cap. qw 3 Attach the lens. Keeping the mounting mark on the lens aligned with the mounting mark 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 override).

25 Vibration Reduction (VR) AF-S DX NIKKOR 18105mm f/3.55.6G ED 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 (Nikon measurements; effects vary with the user and shooting conditions). X 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 focus 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.



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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. 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. A D D CPU Lenses with Aperture Rings In the case of CPU lenses equipped with an aperture ring (0 269), 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. 26 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 2 Turn the camera on. A language-selection dialog will be displayed. X Select a language. Press 1 or 3 to highlight the desired language and press J.

3 Choose a time zone. A time-zone selection dialog will be displayed. Press 4 or 2 to highlight the local time zone (the UTC field shows the difference between the selected time zone and Coordinated Universal Time, or UTC, in hours) and press J. 4 Choose a date format. Press 1 or 3 to choose the order in which the year, month, and day will be displayed.

Press J to proceed to the next step. 5 Turn daylight saving time on or off. Daylight saving time options will be displayed. Daylight saving time is off by default; if daylight saving time is in effect in the local time zone, press 1 to highlight On and press J. 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. 27 Setting the Clock Language and date/time settings can be changed at any time using the Language (0 238) and Time zone and date (0 237) options in the setup menu. The camera clock can also be synchronized with GPS devices (0 162).

A A 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-5B power connector and EH-5a AC adapter (0 280). Two days of charging will power the clock for about three months. If the B icon flashes in the control panel, 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 28 Insert a Memory Card The camera stores pictures on Secure Digital (SD) memory cards (available separately; 0 319).

The camera has two memory card slots (Slot 1 and Slot 2); if you will be using only one memory card, insert it in Slot 1 (0 30). 1 Turn the camera off. X 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.

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. D Front Access lamp Close the memory card slot cover. 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 32. 4GB 29 A No Memory Card If no memory card is inserted, the displays in the control panel and at the bottom of the viewfinder will show S and a "no memory card" icon will be displayed in the viewfinder screen while the battery has charge remaining, even when the camera is off.

X 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). A A Using Two Memory Cards Slot 1 is for the main card; the card in slot 2 plays a backup or secondary role.

If the default setting of Overflow is selected for Role played by card in Slot 2 (0 89) when two memory cards are inserted, the card in slot 2 will only be used when the card in slot 1 is full. Slot 1 The control panel shows the slot or slots that currently hold a memory card (the example at right shows the icons displayed when a card is inserted in each slot). If the memory card is full or locked or an error has occurred, the icon for the affected card will blink (0 307).

Control panel Information display 30 4GB Slot 2 Memory Cards · Memory cards may be hot after use. Observe due caution when removing memory cards from the camera. · Do not remove memory cards from the camera, turn the camera off, or remove or disconnect the power source during formatting or while data are being recorded, deleted, or copied to a computer. Failure to observe these precautions could result in loss of data or in damage to the camera or card.

· Do not touch the card terminals with your fingers or metal objects. · Do not bend, drop, or subject to strong physical shocks. · Do not apply force to the card casing. Failure to observe this precaution could damage the card. · Do not expose to water, heat, high levels of humidity, or direct sunlight. D X 31 Format the Memory Card Memory cards must be formatted before first use or after being used or formatted in other devices. D X 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 (0 179). 1 2 Turn the camera on. Press the Q buttons.

Hold the Q (O and Z) buttons down simultaneously until a blinking C appears in the shutter-speed displays in the control panel and viewfinder. If two memory cards are inserted, the card in Slot 1 (0 30) will be selected; you can choose the card in Slot 2 by rotating the main command dial. To exit without formatting the memory card, wait until C stops blinking (about six seconds) or press any button other than the Q (O and Z) buttons. O button Z button 3 Press the Q buttons again.



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Press the Q (O and Z) buttons together a second time while C is blinking to format the memory card.

Do not remove the memory card or remove or disconnect the power source during formatting. When formatting is complete, the control panel and viewfinder will show the number of photographs that can be recorded at current settings. 32 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 warning will be displayed in the monitor if you attempt to release the shutter). To unlock the memory card, slide the switch to the "write" position. A 4GB Write-protect switch X A See Also See page 236 for information on formatting memory cards using the Format memory card option in the setup menu.

33 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. X 1 2 3 Remove the lens cap. Turn the camera on. Focus the viewfinder. Rotate the diopter adjustment control until the AF area brackets are in sharp focus. When operating the diopter adjustment control with your eye to the viewfinder, be careful not to put your fingers or fingernails in your eye. AF area brackets Adjusting Viewfinder Focus If you are unable to focus the viewfinder as described above, select single-servo autofocus (AF-S; 0 91), single-point AF (0 94), and the center focus point (0 96), 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 (0 281). A 34 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 2 Turn the camera on. Remove the lens cap and turn the camera on. The control panel will turn on and the display in the viewfinder will light. Check the battery level. Check the battery level in the control panel or viewfinder. Control panel \* Viewfinder \* Description L -- Battery fully charged. K -- J -- Battery partially discharged.

I -- H d Low battery. Charge battery or ready spare battery. H d Shutter release disabled. Charge or exchange battery. (blinks) (blinks) \* No icon displayed when camera is powered by optional EP-5B power connector and EH-5a AC adapter.

V appears in information display. A Image Sensor Cleaning The camera vibrates the low-pass filter covering the image sensor to remove dust when the camera is turned on or off (0 284). 35 3 Check the number of exposures remaining. The control panel and viewfinder show the number of photographs that can be taken at current settings (values over 1,000 are rounded down to the nearest hundred; e.g.

, values between 1,200 and 1,299 are shown as 1.2 K). If two memory cards are inserted, the displays show the space available on the card in Slot 1 (0 30). When the number of exposures remaining reaches A, the number will flash, n or j will blink in the shutter-speed displays, and the icon for the affected card will blink. Insert another memory card (0 29) or delete some photos (0 47, 175). s A Camera Off Display If the camera is turned off with a battery and memory card inserted, the memory card icon and number of exposures remaining will be displayed (some memory cards may in rare cases only display this information when the camera is on). Control panel 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 36 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. s 2 Frame the photograph. Frame a photograph in the viewfinder with the main subject in the AF area brackets. AF area brackets 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 to zoom in, shorter focal lengths to zoom out). Zoom in Zoom ring The AF-S DX NIKKOR 18105mm f/3.55.6G ED VR In the case of the AF-S DX NIKKOR 18105mm f/3.55.

6G ED VR (0 315, 316), changes to zoom can alter maximum aperture by up to 11/3 EV. The camera however automatically takes this into account when setting exposure, and no modifications to camera settings are required following adjustments to zoom. A Zoom out 37 Step 4: Focus 1 Press the shutter-release button halfway. Press the shutter-release button halfway to focus. The active focus point will be displayed. If the subject is poorly lit, the flash may pop up and the AF-assist illuminator may light. s 2 Check the indicators in the viewfinder. When the focus operation is complete, the infocus indicator (I) will appear in the viewfinder. In-focus indicator I 24 24 (blinks) Description Subject in focus. Focus point is between camera and subject.

Focus point is behind subject. Camera unable to focus using autofocus. See page 93. Focus point 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 79) will be displayed in the viewfinder. 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 while the photograph is being recorded to the memory card. Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete.

Focus point is behind subject. Camera unable to focus using autofocus. See page 93. Focus point 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 79) will be displayed in the viewfinder. 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 while the photograph is being recorded to the memory card. Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete.

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