



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON D700. You'll find the answers to all your questions on the NIKON D700 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON D700
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Nikon

DIGITAL CAMERA
D700
User's Manual

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Manual abstract:

pp. @ @pp. 438443 Search by key word. pp. 409416 If a warning is displayed in the viewfinder or monitor, find the solution here. Troubleshooting pp. 402408 Camera behaving unexpectedly? Find the solution here. A For Your Safety Before using the camera for the first time, read the safety instructions in "For Your Safety" (pg. xviii). 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 Package Contents Be sure all items listed here were included with your camera. Memory cards are sold separately. · D700 digital camera (pg. 3) · Body cap (pp. 36, 388) · BM-9 LCD monitor cover (pg. 21) · MH-18a quick · EN-EL3e charger with rechargeable power cable Li-ion battery with (pg. 32) terminal cover (pp. 32, 34) · AN-D700 strap (pg. 21) · EG-D100 video cable (pg. 255) · UC-E4 USB cable (pp. 238, 245) · BS-1 accessory shoe cover (pg. 377) · Warranty · User's Manual (this guide) · Quick Guide · Software Installation Guide · Software Suite CD-ROM · Registration card (U. S. A. only) i Symbols and Conventions To make it easier to find the information you need, the following symbols and conventions are used: D A 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. Menu items, options, and messages displayed in the camera monitor are shown in bold. A Trademark Information Macintosh, Mac OS, and QuickTime are registered trademarks of Apple Inc.

Microsoft, Windows and Windows Vista are either registered trademarks, or trademarks of Microsoft Corporation in the United States and/or other countries. CompactFlash is a trademark of SanDisk Corporation. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. PictBridge is a trademark. All other trade names mentioned in this manual or the other documentation provided with your Nikon product are trademarks or registered trademarks of their respective holders. ii X Introduction s Tutorial d Image Recording Options I More About Playback Q Connections U Menu Guide n Technical Notes iii Q&A Index Find what you're looking for using this "question and answer" index. New Features Question How do I take pictures in FX format? How do I take high-quality NEF (RAW) photos? Can I use the monitor as a viewfinder? Can I control how photos are processed? How do I preserve details in shadows and highlights? How do I focus on erratically moving subjects? How do I tell if the camera is level? Can I adjust focus separately for different lenses? How do I remove dust from the low-pass filter protecting the image sensor? Key phrase Image area 14-bit NEF (RAW) Live view Picture Controls Active D-Lighting 3D-tracking Virtual horizon AF fine tune Clean image sensor See page 58 68 89 160 179 286 99, 346 347 392 Camera Setup Question How do I focus the viewfinder? Key phrase Diopter adjustment control See page 45 297 How do I keep the monitor from turning Monitor off delay off? iv Question How do I keep the shutter speed and aperture displays from turning off? Can I display a framing grid in the viewfinder? How do I set the clock? How do I set the clock for daylight savings time? How do I change time zones when I travel? How do I adjust monitor brightness for menus or playback? How do I restore default settings? How do I restore shooting menu defaults? How do I restore Custom Setting defaults? How do I change the self-timer delay? How do I turn the speaker off? Can I reverse the electronic analog exposure display? Can I display the menus in a different language? Can I save menu settings for use on a different D700 camera? Key phrase See page 48, 296 298 Auto meter off Viewfinder grid display World time 39, 334 LCD brightness Two-button reset Reset shooting menu Reset custom settings Self-timer delay Beep Reverse indicators Language Save/load settings 332 196 271 282 297 298 330 334 344 Menus and Displays Question How do I get more information on a menu? How do I use the menus? Can I get quick access to frequently used settings? Can I get quick access to recently-used settings? Key phrase Help Using the menus My Menu Recent settings See page 31 26 364 368 v Question What do these indicators mean? What information is in the shooting information display? What does this warning mean? How much charge does the battery have left? How do I get more information about the battery? 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A Observe proper precautions when handling batteries Batteries may leak or explode if improperly handled. Observe the following precautions when handling batteries for use in this product: · Use only batteries approved for use in this equipment.

· Do not short or disassemble the battery. · Be sure the product is off before replacing the battery. If you are using an AC adapter, be sure it is unplugged. · Do not attempt to insert the battery upside down or backwards. · Do not expose the battery to flame or to excessive heat. · Do not immerse in or expose to water. · Replace the terminal cover when transporting the battery. Do not transport or store the battery with metal objects such as necklaces or hairpins. ·

Batteries are prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains.

· When the battery is not in use, attach the terminal cover and store in a cool, dry place. · The battery may be hot immediately after use or when the product has been used on battery power for an extended period. Before removing the battery turn the camera off and allow the battery to cool. · Discontinue use immediately should you notice any changes in the battery, such as discoloration or deformation. xix A Observe proper precautions when A Use appropriate cables handling the quick charger When connecting cables to the · Keep dry.

Failure to observe this input and output jacks, use only precaution could result in fire or the cables provided or sold by electric shock. Nikon for the purpose to maintain · Dust on or near the metal parts of compliance with product the plug should be removed with regulations. a dry cloth. Continued use could A CD-ROMs result in fire. CD-ROMs containing software or · Do not handle the power cable or manuals should not be played go near the charger during back on audio CD equipment.

thunderstorms. Failure to observe Playing CD-ROMs on an audio CD this precaution could result in player could cause hearing loss or electric shock. damage the equipment. · Do not damage, modify, or A Observe caution when using the flash forcibly tug or bend the power · Using the camera with the flash in cable. Do not place it under close contact with the skin or heavy objects or expose it to heat other objects could cause burns. or flame. Should the insulation be · Using the flash close to the damaged and the wires become subject's eyes could cause exposed, take the power cable to temporary visual impairment. a Nikon-authorized service Particular care should be representative for inspection. observed when photographing Failure to observe this precaution infants, when the flash should be could result in fire or electric no less than one meter (39 in.) shock.

from the subject. · Do not handle the plug or charger with wet hands. Failure to A Avoid contact with liquid crystal observe this precaution could Should the monitor break, care result in electric shock. 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. xx 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, product. or translated into any language in any · While every effort has been made to form, by any means, without Nikon's prior ensure that the information in these written permission. manuals is accurate and complete, we would appreciate it were you to bring · Nikon reserves the right to change the any errors or omissions to the attention specifications of the hardware and of the Nikon representative in your area software described in these manuals at (address provided separately). any time and without prior notice. 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. D700 These limits are designed to provide reasonable protection against harmful CAUTIONS interference in a residential installation. Modifications This equipment generates, uses, and can radiate radio frequency energy and, if not The FCC requires the user be notified installed and used in accordance with the that any changes or modifications made to this device that are not expressly instructions, may cause harmful approved by Nikon Corporation may interference to radio communications. void the user's authority to operate the However, there is no guarantee that equipment.

interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/television technician for help.

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. Nikon Inc., 1300 Walt Whitman Road, Melville, New York 11747-3064, U.S.A. Tel.: 631-547-4200 xxi Notices for Customers in Canada CAUTION This Class B digital apparatus complies with Canadian ICES-003.

ATTENTION Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Symbol for Separate Collection in European Countries 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. Notice Concerning Prohibition of Copying or Reproduction Note that simply being in possession of material that has been digitally copied or reproduced by means of a scanner, digital camera, or other device may be punishable by law. · Items prohibited by law from being copied or reproduced Do not copy or reproduce paper money, coins, securities, government bonds, or local government bonds, even if such copies or reproductions are stamped "Sample."



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xxii *Disposing of Data Storage Devices* Please note that deleting images or formatting memory cards or other data storage devices does not completely erase the original image data. Deleted files can sometimes be recovered from discarded storage devices using commercially available software, potentially resulting in the malicious use of personal image data. Ensuring the privacy of such data is the user's responsibility. Before discarding a data storage device or transferring ownership to another person, erase all data using commercial deletion software, or format the device and then completely refill it with images containing no private information (for example, pictures of empty sky). Be sure to also replace any pictures selected for preset manual.

Care should be taken to avoid injury when physically destroying data storage devices. Use Only Nikon Brand Electronic Accessories Nikon cameras are designed to the highest standards and include complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, AC adapters, and flash accessories) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry. The use of non-Nikon electronic accessories could damage the camera and may void your Nikon warranty. The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal shown at right could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or leaking. For more information about Nikon brand accessories, contact a local authorized Nikon dealer. xxiii *A 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. A Life-Long Learning As part of Nikon's "Life-Long Learning" commitment to ongoing product support and education, continually-updated information is available online 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/>

xxiv *X Introduction* This chapter covers information you will need to know before using the camera, including the names of camera parts. X Overview...

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pg. 2 *Getting to Know the Camera*

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3 *Camera Body*

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.. pg. 3 *The Control Panel* ..

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. pg. 8 The Viewfinder Display.....

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..... pg. 10 The Shooting Information Display .

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... pg. 12 The Command Dials

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..... pg. 16 Quick Start Guide

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..... pg. 22 1 Overview X Thank you for your purchase of a Nikon single-lens reflex (SLR) digital camera. Please be sure to read all instructions thoroughly to get the most from the camera, and keep them where they will be read by all those who use the product.

D 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 2 Getting to Know the Camera Take a few moments to familiarize yourself with camera controls and displays. You may find it helpful to bookmark this section and refer to it as you read through the rest of the manual. X Camera Body 1 2 3 4 5 6 7 8 12 13 14 15 9 10 11 1 Release mode dial..

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.85 2 Release mode dial lock release....

..... 290 6 Battery-chamber cover Self-timer lamp

. 103 latch.....

34 Red-eye reduction lamp.....
... 188 7 Contact cover for optional 2 Sub-command dial..

.....16 MB-D10 battery pack .
...385 3 Depth-of-field preview 8 CPU contacts button

.....115, 324 9 Mounting index

.. 36 4 Fn button

.131, 135, 193, 320 10 Lens mount.....

..... 82 5 Battery-chamber cover

....34 11 Tripod socket 12 Body cap .

.....388 5 Camera Body (Continued) X Viewfinder ...

....45 8 L (protect) button

235 ? (help) button

.... 31 Viewfinder eyepiece.

.....45 Eyepiece shutter lever..

28 7 The Control Panel 1 2 14 13 X 3 4 5 6 7 12 11 10 9 8 4 Exposure mode

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..... 114 Exposure compensation 5 Image size..

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70 value.....

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..... 128 6 Image quality .

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.....65 Flash compensation value

. 190 7 White balance fine-tuning ISO sensitivity....

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... 106 indicator..

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..... 146 White balance fine-tuning

.. 146 8 White balance

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... 140 Color temperature.....

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..... 147 9 Number of exposures White balance preset remaining

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.....47 number..

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.. 157 Number of shots remaining Number of shots in exposure before memory buffer fills.....

...87 and flash bracketing Capture mode indicator.....

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239 sequence

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..... 131 Preset white balance Number of shots in WB recording indicator

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. 151 bracketing sequence.....

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.... 135 Manual lens number.....

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... 212 Number of intervals for 10 "K" (appears when memory interval timer remains for over 1000 photography

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..... 206 exposures)

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.....47 Focal length 11 Flash mode...

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.185 (non-CPU lenses)

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..... 212 12 Multiple exposure 2 Shutter speed lock icon...

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.... 326 indicator.

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. 200 3 Flexible program indicator..... 117 1 Shutter speed ..

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118, 121 8 15 16 17 18 19 28 27 26 25 24 23 22 X 20 21 13 Aperture (f-number).....

119, 121 Aperture (number of stops).....

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.....120, 373 Exposure and flash bracketing increment

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. 132 WB bracketing increment....

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136 Number of shots per interval

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....	206	Maximum aperture (non-CPU lenses)
	
	
.....	212 14	Aperture stop indicator.
...120, 373 15		Flash compensation indicator.....
	
	
	
	
	
190 16		Exposure compensation.....
	
	
	
.....	128 17	Flash sync indicator ...
	
	
..	305 18	ISO sensitivity indicator...
	
106		Auto ISO sensitivity indicator.....
	
	
	
..	108 19	"Clock not set" indicator ...
. 40, 410 20 21 22 23 24 25 26 27 28		MB-D10 battery indicator
	 304 Battery indicator
	
	
	
....46		Interval timer indicator.....
.....	206	Electronic analog exposure display..
	
	
	
	
	
	
....	123	Exposure compensation
.....	128	Exposure and flash bracketing progress indicator.....
	
	
	
	
	
..	131	WB bracketing progress indicator...
	
	
	
.....	135	Tilt indicator.
	

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.... 322 "Beep" indicator

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. 298 GPS connection indicator.....
214 Exposure and flash bracketing indicator

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..... 131 WB bracketing indicator.

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. 135 Aperture lock icon
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.... 326 Color temperature indicator.....
. 147 9 The Viewfinder Display 1 2 3 X 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 10 1 Framing grid (displayed when On is selected for Custom Setting d2; not displayed when DX format (24 × 16) is selected for Image area; pg. 58)...
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.. 298 2 AF area brackets

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.45, 94 3 12-mm reference circle for center-weighted metering ... 112 4 Focus points.
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..... 76, 289 5 Focus indicator..
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53, 82 6 Metering.....
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..... 112 7 Autoexposure (AE) lock ..
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.. 126 8 Shutter speed lock icon ...
..... 326 9 Shutter speed....
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118, 121 10 Aperture lock icon

.... 326 11 Aperture (f-number)

119, 121 Aperture (number of stops).....
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...120, 373 12 Exposure mode.....
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... 114 13 Flash compensation indicator ..
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..... 190 14 Exposure compensation indicator
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.... 128 15 ISO sensitivity

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.. 106 16 Number of exposures remaining

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47 Number of shots remaining before memory buffer fills... 53, 87 White balance recording indicator..

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..151 Exposure compensation value.....

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.....128 Flash compensation value..
...190 17 Flash-ready indicator..
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.....185 18 FV lock indicator ..

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.193 19 Flash sync indicator

.....305 20 Aperture stop indicator ..

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... 120 21 Electronic analog exposure display ..

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123 Exposure compensation display

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..128 Tilt indicator..

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.. 322 X 22 Battery indicator ...

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.. 46 23 Auto ISO sensitivity indicator...

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.108 24 "K" (appears when memory remains for over 1000 exposures).....

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..... 47 D 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 fullycharged battery is inserted. 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. 11 The Shooting Information Display X Shooting information, including shutter speed, aperture, the number of exposures remaining, buffer capacity, and AF-area mode, is displayed in the monitor when the R button is pressed. Press the R button again to change selected settings (pg. 15). R button To clear shooting information from the monitor, press the R button a third time or press the shutter-release button halfway. At default settings, the monitor will turn off automatically if no operations are performed for about 10 seconds. See Also For information on choosing how long the monitor stays on, see Custom Setting c4 (Monitor off delay, pg. 297).

For information on changing the color of the lettering in the shooting information display, see Custom Setting d7 (Shooting info display, pg. 301). A 12 1 23 20 19 18 17 16 4 567 8 9 10 11 12 X 15 14 13 1 2 3 4 5 6 7 8 9 Exposure mode...

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..... 114 Flexible program indicator ...
117 Shutter speed lock icon
.... 326 Shutter speed.
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.....118, 121 Exposure compensation value ..

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... 128 Flash compensation value.... 190 Number of shots in bracketing sequence...

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.....131, 135 Focal length (non-CPU lenses).....

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.. 212 Color temperature ...
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..... 147 Color temperature indicator

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.... 147 Aperture stop indicator.
...120, 373 Aperture lock icon ..

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..... 326 Aperture (f-number) ...
...119, 121 Aperture (number of stops)..
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.....120, 373 Bracketing increment

132, 136 Maximum aperture (non-CPU lenses).....

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.. 212 Electronic analog exposure display.....

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.... 123 Exposure compensation

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128 Bracketing progress indicator.....

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...131, 135 10 Camera battery indicator..

..... 46 11 MB-D10 battery type display ...

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.....304 MB-D10 battery indicator.

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303 12 "K" (appears when memory remains for over 1000 exposures).....

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.. 47 13 Number of exposures remaining

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..... 87 Manual lens number .

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....212 14 Auto-area AF indicator .

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..... 75 Focus points indicator ...

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. 76 AF-area mode indicator

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.. 75 3D-tracking indicator.....75, 286 15 White balance .

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.....140 White balance fine-tuning indicator...

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.....146 16 Image quality

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..... 64 17 Image size ...

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.... 69 18 Vignette control .

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.....276 19 Release mode (single frame/ continuous) indicator..

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.... 84 Continuous shooting speed ... 87 20 Flash sync indicator ...

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....305 13 The Shooting Information Display (Continued) 21 22 23 24 25 26 27 28 44 43 42 41 40 39 38 37 36 29 30 31 32 33 34 35 X 21 ISO sensitivity
indicator .



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... 106 Auto ISO sensitivity indicator

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..... 108 22 Exposure compensation indicator .

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..... 128 23 Flash compensation indicator ...

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..... 190 24 Exposure and flash bracketing indicator.....

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. 131 WB bracketing indicator..... 135 25 GPS connection indicator .

.... 214 26 Metering.....

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.. 112 27 "Beep" indicator...

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..... 298 28 Multiple exposure indicator... 200 29 Interval timer indicator .

.... 206 30 Copyright Information indicator .

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..... 343 31 Image comment indicator...

. 335 32 Active D-Lighting indicator180 33 Color space indicator

....181 34 Depth-of-field preview button assignment .

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..324 35 Fn button assignment

.....320 36 AE-L/AF-L button assignment

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.....325 37 Picture Control indicator..

.163 38 Long exposure noise reduction indicator....

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X M button Flash mode/ Flash compensation Fn button Bracketing Sub-command dial QUAL button Image quality/ size E button Exposure compensation WB button White balance I button Exposure mode ISO button ISO sensitivity Main command dial 16 Image Quality and Size Set image quality (pg. 65) Press the QUAL button and rotate the command dials. X + QUAL button Main command dial Control panel Choose an image size (pg. 70) + QUAL button Sub-command dial Control panel ISO Sensitivity Set ISO sensitivity (pg. 106) Press the ISO button and rotate the main command dial. + ISO button Main command dial Control panel 17 Exposure Press the I button and rotate the main command dial to choose the exposure mode. X Choose the exposure mode (pg. 114) + I button Main command dial Control panel Use the command dials to adjust exposure. Choose a combination of aperture and shutter speed (exposure mode P; pg. 117) + Exposure mode e Main command dial Control panel Choose a shutter speed (exposure mode S or M; pp.

118, 121) Exposure mode f or h + Main command dial Control panel Choose an aperture (exposure mode A or M; pp. 119, 121) Exposure mode g or h + Sub-command dial Control panel 18 Set exposure compensation (pg. 128) + E button Main command dial Control panel X Activate or cancel bracketing/ select number of shots in bracketing sequence (pp. 131, 134) Select bracketing exposure increment (pg. 132) + Fn button Main command dial Control panel + Fn button Sub-command dial Control panel A The Fn Button Depending on the option selected for Custom Setting f5 (Assign FUNC. button, pg. 320), the Fn button and command dials can be used to adjust bracketing settings (the default option), choose the image area, lock shutter speed and aperture, select shutter speed and aperture in steps of 1 EV, choose pre-specified lens data for non-CPU lenses, or select dynamic-area AF. A The Depth-of-Field Preview and AE-L/AF-L Buttons Depending on the options selected for Custom Settings f6 (Assign preview button, pg. 324) and f7 (Assign AE-L/AF-L button, pg. 325), the depth-of-field preview and AE-L/AF-L buttons can be used with the command dials to perform the same functions as the Fn button.

19 White Balance Choose a white balance setting (pg. 141) Press the WB button and rotate the command dials. X + WB button Main command dial Control panel Fine-tune white balance (pg. 146), set color temperature (pg. 147), or WB button choose a white balance preset (pg. 157) + Sub-command dial Control panel Flash Settings Choose flash mode (pg. 185) Press the M button and rotate the command dials. + M button Main command dial Control panel Adjust flash compensation (pg. 190) + M button Sub-command dial Control panel 20 Attaching the AN-D700 Camera Strap Attach the camera strap securely to the two eyelets on the camera body as shown below. X The BM-9 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). To remove the cover, hold the camera firmly and pull the bottom of the cover gently outwards as shown at right. 21 Quick Start Guide Follow these steps for a quick start with your camera. X 1 Charge the battery (pg. 32). 2 Insert the battery (pg. 34). 3 Attach a lens (pg. 36). Mounting index 4 Insert a memory card (pg.

41). Front 5 Turn the camera on (pg. 46). For information on choosing a language and setting the time and date, see page 38. See page 45 for information on adjusting viewfinder focus. 22 6 Check camera settings (pp. 46, 49). Exposure mode Image size Image quality White balance ISO sensitivity Battery level Number of exposures remaining X Control panel Viewfinder display 7 Select single-servo autofocus (pp. 51, 72). Rotate the focus-mode selector to S (single-servo autofocus).

8 Focus and shoot (pp. 53, 54). Press the shutter-release button halfway to focus, then press the shutter-release button the rest of the way down to take the photograph. Focus indicator 9 View the photograph (pg. 55).

K button 10 Delete unwanted photos (pg. 56). Press O twice to delete the current photograph. O button 23 X 24 s Tutorial s This section describes how to use the camera menus, how to ready the camera for use, and how to take your first pictures and play them back. Camera Menus .

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..... pg. 26 Using Camera Menus

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... pg. 31 First Steps .
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... pg. 32 Charge the Battery

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... pg. 32 Insert the Battery .
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..... pg. 34 Attach a Lens...

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.. pg. 36 Basic Setup.....

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.. pg. 38 *Insert a Memory Card.....*

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.. pg. 41 *Adjust Viewfinder Focus..*

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.. pg. 45 *Basic Photography and Playback..*

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...pg. 46 *25 Camera Menus Most shooting, playback, and setup options can be accessed from the camera menus.*



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To view the menus, press the G button. G button's Tabs Choose from playback, shooting, Custom Settings, setup, retouch, and My menus (see following page). Slider shows position in current menu. Current settings are shown by icons. Q If "Q" icon is displayed, help for current item can be viewed by pressing L (Q) button (pg.

31). Menu options Options in current menu. 26 Menus The following menus are available: Description Adjust playback settings and manage photos D Playback (pg. 260). C Shooting Adjust shooting settings (pg. 268). A Custom Settings Personalize camera settings (pg. 280). Format memory cards and perform basic camera B Setup setup (pg. 331).

Create retouched copies of existing photographs N Retouch (pg. 349). Create a menu of custom options (pg. 364). If O My Menu desired, a menu of recently-used settings can be displayed in place of My Menu (pg.

368). Menu's 27 Using Camera Menu Controls The multi selector and J button are used to navigate the menus. Multi selector's Cancel and return to previous menu Move cursor up Select highlighted item Select highlighted item or display submenu J button Select highlighted item Move cursor down Navigating the Menus 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. 28 3 Select a menu. Press 1 or 3 to select the desired menu. s 4 Position the cursor in the selected menu. Press 2 to position the cursor in the selected menu. 5 Highlight a menu item. Press 1 or 3 to highlight a menu item. 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. 29 8 Select the highlighted item. Press J to select the highlighted item. To exit without making a selection, press the G button. s J button Note the following points: · Menu items that are displayed in gray are not currently available. · While pressing 2 or the center of the multi selector 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 (pg. 54). 30 Help If a Q icon is displayed at the bottom left corner of the monitor, help can be displayed by pressing the L (Q) button.

A description of the currently selected option or menu will be displayed while the button is pressed. Press 1 or 3 to scroll through the display. s L button 31 First Steps Charge the Battery s The camera is powered by an EN-EL3e rechargeable Li-ion battery (supplied). The EN-EL3e is not fully charged at shipment. To maximize shooting time, charge the battery in the supplied MH-18a quick charger before use.

About two and a quarter hours are required to fully recharge the battery when no charge remains. 1 Plug the charger in. Insert the AC adapter plug into the battery charger and plug the power cable into an electrical outlet. 2 Remove the terminal cover. Remove the terminal cover from the battery.

Liio n BA TT ER Y PA CK 32 3 Insert the battery. Insert the battery into the charger. The CHARGE lamp will blink while the battery charges. s 4 Remove the battery when charging is complete. Charging is complete when the CHARGE lamp stops blinking. Remove the battery and unplug the charger. 33 Insert the Battery 1 s Turn the camera off. Always turn the camera off before inserting or removing batteries. Power switch 2 Open the battery-chamber cover. Open the battery-chamber cover on the bottom of the camera.

3 Insert the battery. Insert the battery as shown at right. 4 Close the battery-chamber cover. Removing the Battery Before removing the battery, turn the camera off. To prevent short-circuits, replace the terminal cover when the battery is not in use. 34 D The Battery and Charger Read and follow the warnings and cautions on pages xviiiix and 398401 of this manual. To prevent short-circuits, replace the terminal cover when the battery is not in use. Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F). Charge indoors at ambient temperatures in the vicinity of 535°C (4195°F); for best results, charge the battery at temperatures above 20°C (68°F). Battery capacity may temporarily drop if the battery is charged at low temperatures or used at a temperature below the temperature at which it was charged.

If the battery is charged at a temperature below 5°C (41°F), the battery life indicator in the Battery info (pg. 340) display may show a temporary decrease. The battery may be hot immediately after use. Wait for the battery to cool before recharging. Use the charger with compatible batteries only.

Unplug when not in use. s D Incompatible Batteries This camera can not be used with EN-EL3 or EN-EL3a rechargeable Li-ion batteries for the D100, D70 series, or D50 or with the MS-D70 CR2 battery holder. A EN-EL3e Rechargeable Li-ion Batteries The supplied EN-EL3e shares information with compatible devices, enabling the camera to show battery charge state in six levels (pg. 46). 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 (pg.

340). 35 Attach a Lens Care should be taken to prevent dust from entering the camera when the lens is removed. s 1 Remove the rear lens cap and the camera body cap. After confirming that the camera is off, remove the rear lens cap from the lens and remove the camera body cap. q w 2 Attach the lens. Keeping the mounting mark on the lens aligned with the mounting mark on the Mounting camera body, position index the lens in the camera's bayonet mount. Being careful not to press the lens-release button, rotate the lens counter-clockwise 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). 36 3 Remove the lens cap. w q q 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 while turning the lens clockwise. After removing the lens, replace the lens caps and camera body cap. s D CPU Lenses with Aperture Rings In the case of CPU lenses equipped with an aperture ring (pg. 370), lock aperture at the minimum setting (highest f-number). See the lens manual for details. A Lens An AF-S VR Zoom-Nikkor 24-120mm f/3.5-5.6G IF-ED lens is used in this manual for illustrative purposes.

Mounting index Focal length scale Lens cap Focal length index CPU contacts (pg. 370) Rear cover Focus mode switch (pg.

36) Zoom ring VR (vibration reduction) ON/OFF switch Focus ring (pg.



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81) 37 Basic Setup The language option in the setup menu is automatically highlighted the first time menus are displayed. Choose a language and set the time and date. Note that if the time and date are not set, B will blink in the monitor and the time and date recorded with photographs will be incorrect. s 1 Turn the camera on.

Power switch 2 Select Language. Press G to display the camera menus, then select Language in the setup menu. For information on using menus, see "Using Camera Menus" (pg. 28). G button 3 Select a language.

Press 1 or 3 to highlight the desired language and press J. 38 4 Select World time. Select World time and press 2. 5 Set 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. s 6 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. 7 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 when the clock is set to the current date and time. 39 8 Set date format. Press 1 or 3 to choose the order in which the year, month, and day will be displayed and press J. s 9 Exit to shooting mode. Press the shutter-release button halfway to exit to shooting mode. 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 EH-5a or EH-5 AC adapter (pg. 385). 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 A 40 Insert a Memory Card The camera stores photographs on Type I CompactFlash memory cards (available separately; pg.

390). Type II CompactFlash cards and microdrives can not be used. The following section describes how to insert and format a memory card. 1 Turn the camera off. Always turn the camera off before inserting or removing memory cards.

s Power switch 2 Open the card slot cover. Slide the card slot cover out (q) and open the card slot (w). 3 Insert the memory card. Insert the memory card with the front label toward the monitor (q). When the memory card is fully inserted, the eject button will pop up (w) and the green access lamp will light briefly.

Inserting Memory Cards Insert the memory card terminals first. Inserting the card upside down or backwards could damage the camera or the card. Check to be sure that the card is in the correct orientation. Front Access lamp D Direction of insertion Terminals Front 41 4 Close the card slot cover. Close (q) and latch (w) the card slot cover.

s Removing Memory Cards 1 Turn the camera off. Confirm that the access lamp is off and turn the camera off. Access lamp 2 Remove the memory card. Open the memory card slot cover and press the eject button (q) to partially eject the card (w). The memory card can then be removed by hand. Do not push on the memory card while pressing the eject button. Failure to observe this precaution could damage the camera or memory card. 42 Formatting Memory Cards Memory cards must be formatted before first use. Format the card as described below. D Formatting Memory Cards Formatting memory cards permanently deletes any data they may contain.

Be sure to copy any photographs and other data you wish to keep to a computer before proceeding (pg. 238). s 1 Turn the camera on. Power switch 2 Press the Q buttons. Hold the Q (I and O) buttons down simultaneously for approximately two seconds.

O button I button A blinking C will appear in the shutter-speed displays in the control panel and viewfinder. To exit without formatting the memory card, wait six seconds (the default setting) until C stops blinking or press any button other than the Q (I and O) buttons. 3 Press the Q buttons again. Press the Q (I and O) 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. 43 s Memory Cards · Memory cards may be hot after use. Observe due caution when removing memory cards from the camera. · Memory cards that have been formatted in a computer or other device must be reformatted in the camera before they can be used for recording or playback. · Turn the power off before inserting or removing memory cards. Do not remove memory cards from the camera, turn the camera off, or remove or disconnect the power source during formatting or while data are being recorded, deleted, or copied to a computer. Failure to observe these precautions could result in loss of data or in damage to the camera or card. · Do not touch the card terminals with your fingers or metal objects. · Do not bend, drop, or subject to strong physical shocks. · Do not apply force to the card casing.

Failure to observe this precaution could damage the card. · Do not expose to water, heat, high levels of humidity, or direct sunlight. D A No Memory Card If no memory card is inserted, the control panel and viewfinder will show S. If the camera is turned off with a charged EN-EL3e battery and no memory card inserted, S will be displayed in the control panel. See Also See page 332 for information on formatting memory cards using the Format memory card option in the setup menu. A 44 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 shooting. 1 2 Lift the diopter adjustment control. Remove the lens cap, turn the camera on, and pull the diopter adjustment control out (q). s Focus the viewfinder.

Rotate the diopter control until the viewfinder display, focus points, and AF area brackets are in sharp focus. AF area bracket Focus point 3 Replace the diopter adjustment control. Push the diopter adjustment control back in (e). A Diopter Adjustment Viewfinder Lenses Corrective lenses (available separately; pg. 386) can be used to further adjust viewfinder diopter.

Before attaching a diopter-adjustment viewfinder lens, remove the DK-17 viewfinder eyepiece by closing the viewfinder shutter to release the eyepiece lock (q) and then unscrewing the eyepiece as shown at right (w).



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45 Basic Photography and Playback Turn the Camera On s Before taking photographs, turn the camera on and check the battery level and number of exposures remaining as described below. 1 Turn the camera on. Turn the camera on. The control panel will turn on and the display in the viewfinder will light.

Power switch 2 Check the battery level. Check the battery level in the control panel or viewfinder. Icon * Control panel Viewfinder Description L -- Battery fully charged. K -- J -- Battery partially discharged. I -- Low battery. Prepare to charge battery H d or ready spare battery. H d Shutter release disabled. Charge or (blinks) (blinks) exchange battery. * No icon displayed when camera is powered by optional AC adapter. 46 3 Check the number of exposures remaining.

The exposure-count displays in the control panel and viewfinder show the number of photographs that can be taken at current settings. When this number reaches zero, A will flash in the exposure-count displays while the shutter-speed displays will show a blinking n or j. s A 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). 47 A s LCD Illuminators Holding the power switch in the D Power switch position activates the exposure meters and control panel backlights (LCD illuminators), allowing the display to be read in the dark. After the power switch is released, the illuminator will remain lit for six seconds (at default settings) while the camera exposure meters are active or until the shutter is released or the power switch is rotated to D again. Auto Meter Off At default settings, the shutter speed and aperture displays in the control panel and viewfinder will turn off if no operations are performed for about six seconds (auto meter off), reducing the drain on the battery. Press the shutter-release button halfway to reactivate the display in the viewfinder (pg.

54). 6s A 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 c2 (Auto meter-off delay, pg. 296). A Camera Off Display If the camera is turned off with a battery and memory card inserted, the frame count and number of exposures remaining will be displayed (some memory cards may only display this information when the camera is on). Control panel 48 Adjust Camera Settings This tutorial describes how to take photos at default settings.

1 Check camera settings. Exposure mode Image size Image quality White balance ISO sensitivity s Control panel Viewfinder display Default settings are listed below. Option Image quality Image size ISO sensitivity White balance Exposure mode Description Record JPEG images at a compression ratio of roughly 1 : 8 (Size priority selected for JPEG compression). Ideal for snapshots. FX format images are 4,256 × 2,832 pixels in size. ISO sensitivity (digital equivalent of film 200 speed) set to ISO 200. v White balance is adjusted automatically for (Auto) natural colors under most types of lighting. e Camera automatically adjusts shutter speed (Programmed and aperture for optimal exposure in most auto) situations. Default NORM (JPEG normal) L (Large) Page 64 69 106 140 114 Focus point Center focus point (singlepoint AF) 76 Focus point Viewfinder focus point display is shown above. Camera focuses on subject in center focus point when shutter-release button is pressed halfway. 49 2 Choose exposure mode e. Press the I button and rotate the main command dial to select exposure mode e. The camera will automatically adjust shutter speed and aperture for optimal exposure in most situations. I button s Main command dial 3 Choose single frame release mode. Release mode dial lock release Hold the release mode dial lock release down and turn the release mode dial to S (single frame).

At this setting, the camera will take one Release mode dial photograph each time the shutter-release button is pressed. 4 Choose single-point AF. Rotate the AF-area mode selector until it clicks into place pointing to K (single-point AF). At this setting, the user can choose the focus point. AF-area mode selector 50 5 Choose single-servo autofocus. Focus-mode selector Rotate the focus-mode selector until it clicks into place pointing to S (single-servo autofocus). At this setting, the camera will automatically focus on the subject in the selected focus point when the shutter-release button is pressed halfway. Pictures can only be taken when the camera is in focus. s 6 Choose matrix metering. Rotate the metering selector to a (matrix metering).

Matrix metering uses information from the 1,005-segment RGB sensor to ensure optimal results for the entire frame. Metering selector 51 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 you upper body stable. Hold the camera as shown at right when framing photographs in portrait (tall) orientation. s For information on framing photographs in the monitor, see page 89.

52 Focus and Shoot 1 Press the shutterrelease button halfway to focus (pg. 54). At default settings, the camera will focus on the subject in the center Focus Buffer focus point. Frame a indicator capacity photo in the viewfinder with the main subject positioned in the center focus point and press the shutter-release button halfway. If the camera is able to focus, a beep will sound and the in-focus indicator (I) will appear in the viewfinder.

If the subject is dark, the AF-assist illuminator may light automatically to assist the focus operation. Viewfinder display I 2 4 24 (blinks) Description Subject in focus. Focus point is between camera and subject. Focus point is behind subject. Camera unable to focus on subject in focus point using autofocus. s While the shutter-release button is pressed halfway, focus will lock and the number of exposures that can be stored in the memory buffer ("t"; pg. 87) will be shown in the viewfinder display. For information on what to do if the camera is unable to focus using autofocus, see "Getting Good Results with Autofocus" (pg. 80).

53 2 Press the shutter-release button the rest of the way down to shoot.

Smoothly press the shutterrelease-button the rest of the Access lamp way down to take the picture. While the photograph is being recorded to the memory card, the access lamp next to the card slot cover will light. s D The Memory Card Access Lamp Do not eject the memory card, turn the camera off, or remove or disconnect the power source until the memory card access lamp has gone out.



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