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You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON COOLPIX 4600. You'll find the answers to all your questions on the NIKON COOLPIX 4600 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NIKON COOLPIX 4600
User guide NIKON COOLPIX 4600
Operating instructions NIKON COOLPIX 4600
Instructions for use NIKON COOLPIX 4600
Instruction manual NIKON COOLPIX 4600

Nikon

En

The Nikon Guide to Digital Photography
with the

**COOLPIX
5600
4600**

DIGITAL CAMERA



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Manual abstract:

Adobe and Acrobat are registered trademarks of Adobe Systems Inc. The SD logo is a trademark of the SD Card Association. PictBridge is a trademark. D-Lighting technology is provided by Apical Limited. @@Keep these safety instructions where all those who use the product will read them. The consequences that could result from failure to observe the precautions listed in this section are indicated by the following symbol: This icon marks warnings, information that should be read before using your Nikon product to prevent possible injury. Notices/For Your Safety WARNINGS Turn off immediately in the event of malfunction Should you notice smoke or an unusual smell coming from the equipment or from the AC adapter (available separately), unplug the AC adapter and remove the batteries immediately, taking care to avoid burns. Continued operation could result in injury. After removing the batteries, take the equipment to a Nikon-authorized service center for inspection. Do not use in the presence of flammable gas Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.

Observe caution when using the camera strap Never place the strap around the neck of an infant or child. Do not disassemble Touching the product's internal parts could result in injury. In the event of malfunction, the product should be repaired only by a qualified technician. Should the product break open as the result of a fall or other accident, take the product to a Nikon-authorized service center for inspection after unplugging the AC adapter and removing the batteries. 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: · Before replacing the batteries, turn the camera off and make sure the power-on lamp has gone out. If you are using an AC adapter, be sure it is unplugged. · Use a pair of rechargeable Nikon EN-MH1 NiMH batteries, two ZR6 (AA) nickel manganese batteries, LR6 (AA) alkaline batteries, or two FR6/L91 (AA) lithium batteries. Do not use other types of battery. Do not mix batteries of different types.

· When inserting batteries, do not attempt to insert them upside down or backwards. · Do not short or disassemble batteries. i · Do not expose batteries to flame or to excessive heat. · Do not immerse in or expose to water. · Do not transport or store 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 batteries when no charge remains. · When the battery is not in use, at tach the terminal cover and store in a cool place. · Immediately after use, or when the product is used on battery power for an extended period, the batteries may become hot. Before removing the batteries, turn the camera off and allow the batteries to cool.

· Discontinue use immediately should you notice any changes in the batteries, such as discoloration or deformation. 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. Keep out of reach of children Particular care should be taken to prevent infants from putting the batteries or other small parts into their mouths. Removing memory cards Memory cards may become hot during use. Observe due caution when removing memory cards from the camera. CD-ROMs The CD-ROMs on which the software and manuals are distributed 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. Observe caution when operating the flash Using the flash close to your subject's eyes could cause temporary visual impairment. Particular care should be observed if photographing infants, when the flash should be no less than one meter (39) from the subject. Avoid contact with liquid crystal Should the monitor break, care should be taken to avoid injury due to broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

Notices/For Your Safety ii Cautions To ensure continued enjoyment of your Nikon product, observe the following precautions when storing or using the device: Keep dry The device will be damaged if immersed in water or subjected to high levels of moisture. Handle the lens and all moving parts with care Do not apply force to the lens or lens cover, or to the connector, card slot, or battery chamber covers. These parts are especially susceptible to damage. Turn the product off before removing or disconnecting the power source Do not unplug the product or remove the batteries while the product is on, or while images are being recorded or deleted. Forcibly cutting power in these circumstances could result in loss of data or in damage to product memory or internal circuitry.

To prevent an accidental interruption of power, avoid carrying the product from one place to another while the AC adapter (available separately) is connected. Do not drop The product may malfunction if subjected to strong shocks or vibration. Keep away from strong magnetic fields Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage data stored on the memory card, or affect the product's internal circuitry. Avoid sudden changes in temperature Sudden changes in temperature, such as occur when entering or leaving a heated building on a cold day, can cause condensation inside the device.

To prevent condensation, place the device in a carrying case or a plastic bag before exposing it to sudden changes in temperature. Do not point the lens at strong light sources for extended periods Avoid pointing the lens at the sun or other strong light sources for extended periods when using or storing the camera. Intense light may cause deterioration in the CCD image sensor, producing a white blur effect in photographs. Notices/For Your Safety iii Notices · No part of the manuals included with this product may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without Nikon's prior written permission. · Nikon reserves the right to change the specifications of the hardware and software described in these manuals at any time and without prior notice. · Nikon will not be held liable for any damages resulting from the use of this product. · While every effort has been made to ensure that the information in these manuals is accurate and complete, we would appreciate it were you to bring any errors or omissions to the attention of the Nikon representative in your area (address provided separately).



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Federal Communications Commission (FCC) Radio Frequency Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. E5600/E4600 Tested To Comply With FCC Standards FOR HOME OR OFFICE USE · Consult the dealer or an experienced radio/ television technician for help. CAUTIONS Modifications The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Nikon Corporation may void the user's authority to operate the equipment. Interface Cables Use the interface cables sold or provided by Nikon for your equipment.

Using other interface cables may exceed the limits of Class B Part 15 of the FCC rules. Notice for customers in the State of California WARNING: Handling the cord on this product will 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 iv Notice for customers in Canada Notices/For Your Safety CAUTION This class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. ATTENTION Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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v Before Taking Important Pictures Notices/For Your Safety Before taking pictures on important occasions (such as at weddings or before taking the camera with you 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. Use Only Nikon Brand Electronic Accessories Your Nikon COOLPIX camera is designed to the highest standards and includes complex electronic circuitry. Only Nikon brand electronic accessories (including battery chargers, batteries, and AC adapters) certified by Nikon specifically for use with your 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 YOUR CAMERA AND MAY VOID YOUR NIKON WARRANTY. For more information abo.....

.....
.....
.....

..... 48 Viewing Pictures on a Computer...

.....
.....
.....
.....
.....
.....
.....

.... 49 Printing Pictures.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
.....
. 52 Printing Via Direct USB Connection....
.....

.....
.....
.....
.....

.....
.....
..... 56 Movies .
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.60 W Recording Movies
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 60 Viewing Movies .
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
. 64 vii The Shooting Menu
.....

.....
.....
.....
.....

.....

.....
..65 Using the Shooting Menu...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 65 Image Mode.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 67 White Balance

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

69 Exp. +/-

.....

.....

.....

.....

.....

.....

.....

.....

.....

71 Continuous

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 72 *Best Shot Selector*..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 73 *Color Options*...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 74 *The Playback Menu*...

.....

.....

.....

.....

.....

.....

.....

.....

....75 *Using the Playback Menu* .

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 75 Slide Show

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

77 Delete

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

. 78 Protect

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

. 80 Transfer Marking

.....

.....
.....
.....

.....
.....
.....

.....
.....

. 81 Small Picture....

.....
.....
.....
.....
.....
.....
.....
.....

... 83 Copy

.....
.....
.....
.....
.....
.....
.....
.....
.....

. 84 The Set-up Menu

.....
.....
.....
.....
.....
.....
.....

.87 Using the Set-up Menu.....

.....
.....
.....
.....
.....
.....
.....

.. 87 Welcome Screen...

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
... 89 Date ..

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 90 Monitor Settings.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 92 Date Imprint

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
93 Sound Settings

.....
.....

.....
.....
.....
.....

.....

.....
.....
.....

.....
.. 94 Blur Warning ..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.... 95 Auto Off.

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 96 Format memory/card

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 97 Language

.....
.....
.....
.....

.....
.....
.....
.....

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.....

..... *99 Interface...*

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.....

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.....
.....

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99 Auto Transfer

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... 100 Reset All

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.....
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.... 100 Battery Type

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. 116 viii *Before You Begin Introduction* Thank you for your purchase of a Nikon COOLPIX5600 (E5600)/COOLPIX4600 (E4600) digital camera. This manual has been written to help you enjoy taking pictures with your Nikon digital camera. Read this manual thoroughly before use, and keep it handy when using the product. To make it easier to find the information you need, the following symbols and conventions are used: This icon marks cautions, information you should read before use to prevent damage to your camera. This icon marks tips, additional information you may find helpful when using your camera.

Before You Begin This icon indicates that more information is available elsewhere in this manual or in the Quick Start Guide. This icon marks notes, information that you should read before using your camera. *Q* Illustrations and on-screen text in this manual may differ from the actual display. *Internal Memory and SD Memory Card* This camera uses both an internal memory and an SD memory card for storing pictures.

If you insert a card into the camera, pictures will automatically be stored on the card instead of in the memory.



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To store, view or delete pictures in the memory or to format the memory, remove the memory card first. 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: <http://www.europe-nikon.com/support/> · For users in Asia, Oceania, the Middle East, and Africa: <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 URL below for contact information: <http://nikonimaging.com/> 1 Parts of the Camera Power-on lamp (Q 12) Shutter-release button (Q 7) Power switch (Q 12) Microphone (E5600 only) (Q 47) Built-in Speedlight (Q 24) Viewfinder (Q 18) Self-timer lamp (Q 26) Before You Begin Eyelet for camera strap Memory card slot cover (Q 10) Lens (Q 18) Power connector cover for AC adapter Attaching the Camera Strap 2 Parts of the Camera Red (!) lamp (Q 20) Green (AF) lamp (Q 20) Viewfinder (Q 18) Monitor (Q 5, 18) Mode dial (Q 6) Zoom (I/O) buttons (Q 18) Menu button (Q 65, 75) Multi selector (!/Y/&V) (Q 7) u(delete) button (Q 22, 23) x(play) button (Q 22) Before You Begin Speaker (E5600 only) Battery-chamber cover (Q 8) Battery-chamber Tripod socket (Q 25, 26) cover latch (Q 8) Interface connector cover (Q 48, 50) Interface connector cover USB connector (Q 50, 56) Audio/video (AV) out connector (E5600 only) (Q 48)/ Video output connector (E4600 only) (Q 48) 3 The Monitor Shooting 2 1 21 18 20 19 17 16 15 Before You Begin AE-L 3 4 5 6 7 8 BW 9 5M 14 +1.0 10 AUTO 13 10 11 999 12 1 2 3 4 5 6 7 8 9 Shooting mode

. 16 AE-L1 . .

.

.

. 40 Focus indicator2 .

.

. . 20 Zoom indicator2 . . .

.

. 18 Battery level indicator3

. . . 12 Internal memory/memory card indicator.

.

.

. . 16 Camera shake icon4

. . 25 "Date not set" icon5

. 14 Time zone

.

. 91 12 Number of exposures remaining/ length of movie .

. 16, 17, 60 13 Flash mode

.

.

. . . 24 14 Image mode

. 67 15 Exposure compensation .

.

. 71 16 Sensitivity gain indicator6

. . 25 17 Continuous shooting mode 72 18 Best Shot Selector (BSS). . .

. 73 19 White balance

.

.

69 20 Color options

. 74 21 Macro close-up mode

. . . . 27 5 Appears when camera clock has not been set.

6 Indicates that camera has raised sensitivity automatically. 10 Self-timer indicator. . . .

. 26 11 Date imprint indicator . . .

. 93 1 Appears when taking pictures with Panorama Assist. 2 Displayed when zoom buttons are pressed. 3 Appears when batteries are running low. 4 Appears at slow shutter speeds to warn that pictures may be blurred. 4 The Monitor Playback 17 16 15 14 13 2005 .

05 . 01 12 : 00 100NIKON 0008 . JPG 1 2 3 4 5 6 12 7 Before You Begin 5M 11 10 8 START 9 9 10 11 12 13 14 15 16 17 10 8 1 2 3 4 5 6 7 8 Current folder .

. .

.

. 23 File number and type

. 23 Internal memory/memory card indicator

.

.

. . . 16 Battery level indicator1

. 12 Volume indicator2
 . . 64 Voice memo recording guide2 . . .
 47 Voice memo playback guide2 . . . 47 Current frame number/total number of frames/length of movie. .
 . .23, 64 1 Appears when batteries are running low. 2 E5600 only. Movie playback indicator

64 Voice memo icon2
 . 47 Image mode.

 67 Movie indicator

.
 61 Protect icon

 80 Print-order icon

. 52 Transfer icon

 81 Time of recording.

. . . . 14-15 Date of recording.

. . . . 14-15 Controlling the Monitor To hide or display indicators in the monitor, select the Photo info option in the MONITOR SETTINGS menu.

(Q 92) 5M AUTO 10 Monitor shows current settings and view through lens Monitor shows view through lens only Monitor off Monitor turns off while flash is charging (Q 20). 5 The Mode Dial Using the mode dial, you can select from seven shooting modes and setup mode. Choose a shooting mode according to shooting conditions. To select a mode, align the mode icon with the "J" mark next to the mode dial. P Auto (Q 16) Choose this mode to take pictures. Select from six shooting menus to achieve the desired effect. Before You Begin W Movie (Q 60-64) Choose from three kinds of movies. Make movies with sound using the E5600, or using E4600 for silent movies only. e Scene (Q 28, 35) Choose from twelve "scenes" suited to different subjects or shooting conditions and let the camera do the rest. i Portrait Assist f Setup (Q 87) Choose this mode to display the SETUP menu, where you can perform such tasks as setting the camera clock and adjusting monitor brightness. N Landscape Assist j Sports Assist m Night Portrait Assist Use framing assist to help compose pictures suited to a particular type of subject (Q 28-34). 6 Navigating the Menus The multi selector is used to navigate through the camera menus. Move cursor up. Press center (I) to make selection. Cancel and return to previous menu, or move cursor left.

Display sub-menu, move cursor right, or make selection. Move cursor down. Before You Begin The Shutter-Release Button Your camera has a two stage shutter-release button. The camera sets focus and exposure when the button is pressed halfway. The green (AF) lamp next to the viewfinder will light when the focus operation is complete. Focus and exposure will remain locked while the shutter-release button is pressed halfway. To take the picture, press the shutter-release button the rest of the way down. 7 First Steps Inserting Batteries Your camera uses: · LR6 (AA) alkaline batteries (×2), or · Nikon EN-MH1 rechargeable nickel-metal hydride (NiMH) batteries (×2), or · ZR6 (AA) nickel manganese batteries (×2), or · FR6/L91 (AA) lithium batteries (×2) 1 2 3 1 Open the battery-chamber cover · Slide the battery-chamber cover latch as illustrated (), pull the battery-chamber cover () and open (). 2 AA batteries Insert the batteries · Insert the batteries as shown in the label inside the battery chamber. 1 2 3 Close the battery-chamber cover · Close the battery-chamber cover () and slide it in until it latches ().

Be sure that the battery-chamber cover is properly latched. First Steps [IMPORTANT] Battery Type To improve battery performance, select the type of battery currently inserted in the camera in the SET-UP menu. The default setting is the type of the included batteries.



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When any other type of battery is used, turn the camera on and change the setting (Q 102). 8 Inserting Batteries Replacing Batteries Turn the camera off and make sure that the power-on lamp has gone out before removing or inserting batteries.

Read Battery Warnings Read and follow all warnings and instructions supplied by the battery manufacturer. Damaged Batteries The following batteries can not be used: · Batteries with peeling or damaged insulation. Using batteries with damaged insulation could result in leakage, overheating, or rupture. Note that due to manufacturing defects even new batteries may have faulty insulation. · Batteries with insulation that covers only the sides of the battery and not the area around the negative terminal.

· Batteries with a flat negative terminal. Do not use such batteries even if the insulation adequately covers the area around the negative terminal. Alkaline Batteries Performance of alkaline batteries may vary greatly depending on the manufacturer. Choose a reliable brand. First Steps EN-MH1 Batteries Using an MH-71 battery charger, charge EN-MH1 batteries before first use. Charge each pair of batteries at the same time -- do not charge batteries one at a time or mix batteries with different charges. Note that EN-MH1 batteries may discharge quickly immediately after purchase or after the batteries have been left unused for an extended period. This is normal, and the batteries will retain a charge for longer periods after being used and recharged several times. For more information on charging batteries, see the documentation provided with the MH-71. Alternative Power Sources To power the camera continuously for extended periods, use an EH-62B AC adapter (Q 105).

Do not, under any circumstances, use another make or model of AC adapter. Failure to observe this precaution could result in overheating or in damage to the camera. 9 Inserting Memory Cards Pictures can be stored in the camera's internal memory (about 14 MB) or on Secure Digital (SD) memory card. If no memory card has been inserted in the camera, pictures will be stored in the memory, and if the camera contains a memory card, then pictures will automatically be stored on the card. To store pictures in the internal memory, remove the memory card. 1 Confirm that the camera is off · The power-on lamp should be off. 2 3 First Steps Direction of insertion Terminals Front Open the memory card slot cover Insert the memory card · Insert the memory card in the direction of the arrow as shown. Insert straight without bending. 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 the card is in the correct orientation. 4 Close the memory card slot cover 10 Inserting Memory Cards Formatting Memory Cards Memory cards must be formatted before first use. For information on formatting memory cards, see "The SET-UP Menu: Format memory/card" (Q 97, 98). Removing Memory Cards Memory cards can be removed without loss of data when the camera is off. To remove memory cards, turn the camera off and confirm that the power-on lamp is off.

Do not open the memory card slot cover while the power-on lamp is lit. Open the memory card slot cover and press the memory card to partially eject the card. The card can then be removed by hand. Memory Cards · Use only Secure Digital (SD) memory cards. · Do not disassemble or modify. · Do not drop, bend, or expose to water or strong physical shocks. · Do not touch the metal terminals with your fingers or metal objects. · Do not affix labels or stickers to the memory card. · Do not leave in direct sunlight in a closed vehicle or in other areas exposed to high temperatures. · Do not expose to high levels of humidity or to corrosive gas. First Steps The Write Protect Switch SD cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" position, pictures can not be recorded, deleted, or edited, and the card can not be formatted. Do not lock the card when taking, deleting, or editing pictures. Write protect switch When card is locked, pictures can be played back but can not be recorded, deleted, edited, or transferred using the camera I (V) button. 11 Checking the Battery Level 1 Turn the camera on · Press the power switch.

The power-on lamp will light. Rotate the mode dial to a setting other than f. 2 5M Check the battery level in the monitor · When the camera is turned on for the first time, a language selection dialog will be displayed. Choose the desired language and press I (the center of multi selector). See "First Steps: Basic Setup" (Q 14). · Before checking the battery level, select the appropriate Battery type option in the SETUP menu (Q 102). Display NO ICON X WARNING!! BATTERY EXHAUSTED Meaning Batteries fully charged. Low battery. Batteries exhausted. Replace with new or fully charged batteries.

AUTO 10 First Steps The red (!) and green (AF) lamps will blink when the "BATTERY EXHAUSTED" warning is displayed. The x Button The camera can also be turned on by pressing the x button for about a second. Your most recent picture will be displayed in the monitor (Q 22). 12 Checking the Battery Level Turning the Camera Off To turn the camera off, press the power switch when the power-on lamp is lit. Do not remove the batteries or disconnect the EH-62B AC adapter until the power-on lamp has gone out.

The Power-on Lamp When the power on lamp is On Blinking Off The camera is On In standby mode Off Auto Power Off (Standby Mode) If no operations are performed for one minute (default setting), the monitor will turn off automatically and the camera will enter standby mode to reduce the drain on the batteries. While the camera is in standby mode, the power-on lamp will blink. If no operations are performed for three minutes after the camera enters standby mode, the camera will turn off automatically and the power-on lamp will go out. The camera will be reactivated from standby mode when you: · Press the power switch · Press the shutter-release button halfway · Press the x button to view the last picture taken · Press ^ button to display the menu for the current mode · Rotate the mode dial to select a new mode The length of time before the camera enters standby mode can be changed using the Auto off option in the SET-UP menu (Q 96). However, when a menu or the SET-UP menu is displayed, the monitor will turn off after three minutes, and when pictures are being shown in a non-stop slide show (Q 77) or when the camera is powered by an AC adapter, the monitor will turn off after thirty minutes.

First Steps Sleep Mode Turning sleep mode on will cause the camera to enter standby mode when there is no change in the brightness of the subject, even before the time selected in the AUTO OFF menu has elapsed (Q 96).



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13 Basic Setup The first time the camera is turned on, a language-selection dialog will be displayed in the monitor. Follow the steps below to choose a language and set the time and date. 1 :Cancel :Set Highlight Deutsch (German), English, Español (Spanish), Français (French), Italiano (Italian), Nederlands (Dutch), Svenska (Swedish), (Japanese), (Simplified Chinese), (Traditional Chinese) or (Korean) and press I (the center of the multi selector). Select No to exit to mode currently selected with mode dial. If you exit without setting time and date, Z ("date not set") icon will flash in monitor when camera is in shooting mode and all pictures will have time stamp of "0000.00.00 00:00" (still images) or "2005.01.01 00:00" (movies).

2 DATE Set time and date? No Yes :Set Highlight Yes and press I. 3 First Steps TIME ZONE 0 1. 0 1. 2005. 00 : 00 OK 4 HOME TIME ZONE London, Casablanca DaylightSaving London, Casablanca :Set :Back :Set TIME ZONE menu displayed. Display map of world time zones. To turn daylight saving time on or off, press the multi selector down to highlight DaylightSaving and press I. When DaylightSaving is checked, time will automatically be advanced one hour (Q 91). To return to Step 3, press the multi selector up to highlight current time zone. The Clock Battery When the main batteries are installed or the camera is powered by an AC adapter, the clock battery will charge in about ten hours.

When fully charged, the clock battery can provide several days of back-up power. 14 Basic Setup 5 HOME TIME ZONE 6 DATE D 01 M Y 0 1 . 2005 London, Casablanca :Back :Set 00 : 00 :Set Select home time zone. Display DATE menu. 7 DATE D 01 M Y 0 1 .

2005 8 :Set DATE D 01 M 05 Y 2005 00 : 00 Edit Day (order of Day, Month, and Year may differ in some areas). 00 : 00 :Set Select Month. Repeat steps 89 to edit Month, Year, hour, and minute. 9 DATE D M Y 0 1 . 0 5 .

2005 13 : 0 0 :Set 10 DATE M D Y First Steps 0 5 . 0 1 . 2005 13 : 0 0 :Set Highlight D M Y. Choose order in which Day, Month, and Year will be displayed. Exit to mode currently selected with mode dial. Note that time and date of recording will not be imprinted on pictures unless Date or Date and time is selected for Date imprint option (Q 93). 11 5M AUTO 10 Setting the Clock from PictureProject (Windows XP/Mac OS X Only) If the camera is connected with the USB option set to PTP (Q 49), PictureProject (included) can be used to set the camera clock to the same time and date as the computer. See the PictureProject Reference Manual for details. 15 Basic Photography Step 1 - Select P Mode This section details the basic steps involved in taking pictures in P (auto) mode. In this automatic, "point-and-shoot" mode, the majority of camera settings are controlled by the camera in response to shooting conditions, producing optimal results in most situations.

1 2 Rotate the mode dial to P Turn the camera on · The power-on lamp will light and the monitor will display a welcome screen (Q 89). The camera is ready to shoot when the monitor shows the view through the camera lens. Memory/memory card Shooting mode/scene mode P indicates auto mode. Image mode Choose from five options depending on how you plan to use the picture (Q 67). The default setting is H (E5600) or F (E4600). Basic Photography When the camera contains a memory card, / is displayed, and when there is no card in the camera, } is displayed. 5M Flash mode Choose from five modes depending on lighting and your creative intent (Q 24). The default setting is !# (auto). AUTO 10 Number of exposures remaining The number of pictures that can be stored depends on the capacity of the memory or memory card and the option chosen for Image mode (Q 67). 16 Step 1 - Select P Mode Number of Exposures Remaining If the number of exposures remaining is zero, the message "OUT OF MEMORY" will be displayed in the monitor.

No further pictures can be taken until you: · choose a lower Image mode setting (Q 67) · insert a new memory card (Q 10) · delete some pictures (Q 22-23, 78-79) Shooting Menu Pressing ^ button in P (auto) mode displays the SHOOTING MENU (Q 65). Using the SHOOTING MENU, Image mode (Q 67), White balance (Q 69), Exp. +/- (Q 71), Continuous (Q 72), BSS (Q 73) or Color options (Q 74) options are available for your shooting purpose. Basic Photography 17 Step 2 - Frame the Picture 1 Ready the camera Hold the camera steadily in both hands. Photographs can be framed in the monitor or the viewfinder.

Don't Block the Shot To avoid dark or partially obscured pictures, keep your fingers and other objects away from the lens, flash window and microphone (E5600 only). 2 Zoom out Zoom in Frame your subject Your Nikon digital camera is equipped with two types of built-in zoom: optical zoom, in which the camera's telescoping lens can be used to magnify the subject up to 3 ×, and digital zoom, in which digital processing is used to further magnify the image up to 4 ×, for a total of 12 ×. Use the zoom buttons to frame your subject in the center of the monitor: · Press the l (W) button to zoom out from your subject, increasing the area visible in the frame. · Press the O (T) button to zoom in on your subject so that it fills a larger area of the frame. · When the camera is zoomed in to maximum magnification, holding the O (T) button down for about one second will trigger digital zoom.

The zoom indicator will turn yellow, and the green (AF) lamp next to the viewfinder will blink. Use the O (T) and l (W) buttons to adjust zoom in the digital zoom range. To cancel digital zoom, press l (W) until the zoom indicator turns white. 5M AUTO 10 Indicator in monitor shows amount of zoom when either button is pressed Basic Photography 5M Digital zoom AUTO 10 18 Step 2 - Frame the Picture Digital Zoom In digital zoom, data from the camera's image sensor are processed digitally, enlarging the center portion of the picture to fill the frame. Unlike optical zoom, digital zoom does not increase the amount of detail visible in the picture. Instead, details visible at maximum optical zoom are simply enlarged, producing a slightly "grainy" image. Note that the effects of digital zoom are not visible in the viewfinder - use the monitor when framing pictures with digital zoom. Digital zoom is not available when the monitor is off or when Multi-shot 16 is selected in the CONTINUOUS menu (Q 72). When Lighting Is Poor When lighting is poor, sensitivity is raised to compensate and the image in the monitor may be slightly mottled. This is normal and does not indicate a malfunction.

Monitor or Viewfinder? Use the monitor to confirm camera settings at a glance while at the same time viewing an image that shows how the final picture will appear.



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This is particularly useful when the image in the viewfinder does not accurately reflect what will appear in the final picture, for example when: · your subject is less than a meter (3'3") from the camera · digital zoom is in effect Use the viewfinder when you want to save power by turning the monitor off (Q 5), or when bright ambient lighting makes it difficult to see the display in the monitor. Basic Photography 19 Step 3 - Focus and Shoot 1 Red (!) lamp Focus Press the shutter-release button halfway to set focus and exposure. In P mode, the camera will automatically focus on the subject at the center of the frame. Focus and exposure will lock while the shutter-release button is pressed halfway. With the shutter-release button pressed halfway, check focus and flash. Focus is indicated by the green AF (autofocus) lamp next to the viewfinder and by the focus indicator in the monitor. Flash status is indicated by the red ! (flashready) lamp next to the viewfinder. On Blinks Off On Flash will fire when picture is taken. Flash charging.

Wait until lamp comes on. Flash off or not required. Subject in focus. Red (!) lamp Green (AF) lamp Focus indicator AF Green(AF)lamp/ focus indicator 5M AUTO 10 Camera unable to focus on subject at center of frame. Using Flashes focus lock, focus on another subject at same distance, then recompose picture and shoot.

Monitor turns off while flash is charging. 2 Take the picture Press the shutter-release button the rest of the way down to take the picture. The shutter sound is played when the shutter-release button is pressed (default setting Q 94). To prevent blur, press the shutter-release button down smoothly. You can choose whether or not to display the camera shake warning (Q 25).

Basic Photography 20 Step 3 - Focus and Shoot During Recording While pictures are being recorded to the memory or memory card, the green (AF) lamp blinks, and the < icon lights or the memory icon // blinks. You can continue to take pictures until the < icon is displayed. Do not turn the camera off, eject the memory card, or remove or disconnect the power source while picture are being recorded. Cutting power or removing the memory card in these circumstances could result in loss of data or in damage to the camera or card. Getting Good Results with Autofocus Autofocus performs best when there is contrast between the subject and the background and the subject is evenly lit. It does not perform well if the subject is very dark or moving rapidly, if there are objects of sharply differing brightness in the scene (e.g., the sun is behind your subject and their features are in deep shadow), or if there are several objects at different distances from the camera at the center of the frame (e.g., your subject is inside a cage).

Focusing on Off-Center Subjects: Focus Lock If your subject is not at the center of the frame when the shutter-release button is pressed halfway, your picture may be out of focus. To focus on an off-center subject: 5M AUTO 10 AF 5M AUTO 10 Focus Position the subject in the center of the frame and press the shutter-release button halfway. Check the green (AF) lamp and focus indicator With the shutter-release button pressed halfway, check that the green (AF) lamp and focus indicator glow steadily, indicating that the subject is in focus. Focus and exposure will remain locked while the shutter-release button is pressed halfway. Recompose the picture Keeping the shutter-release button pressed halfway, recompose your picture. Do not change the distance between the camera and your subject while focus lock is in effect. If your subject moves, remove your finger from the shutter-release button and focus again at the new distance. Take the picture Press the shutter-release button the rest of the way down to shoot. Basic Photography 21 Step 4 - View the Results (Full-screen Playback Mode) 1 Press the x button 2005 . 05 .

01 13: 00 100NIKON 0001. JPG 2 View pictures in the monitor To view additional pictures, press the multi selector down or right to view pictures in the order recorded, up or left to view pictures in reverse order. To scroll quickly to a particular frame number without viewing the intervening pictures, press and hold the multi selector. O: @ (voice memo recording guide) is displayed (E5600 only). To cancel full-screen playback and return to shooting mode, press the x button again.

5M 1 1 Erase 1 image (s)? Deleting Unwanted Pictures No Yes :Set Done To delete the picture displayed in the monitor, press the u button. A confirmation dialog will be displayed. Press the multi selector up or down to highlight Yes and then press the center of the multi selector. To exit without deleting the picture, highlight No and press I (the center of the multi selector). Basic Photography 22 Step 4 - View the Results (Full-screen Playback Mode) Deleting Your Last Shot At any time during shooting, you can press the u button to delete the last picture taken.

The confirmation dialog shown at right will be displayed. Delete the picture as described opposite under "Deleting Unwanted Pictures." Erase 1 image (s)? No Yes :Set Playback Tip The first and last pictures in memory are linked. Pressing the multi selector up or left when the first picture in memory is displayed will take you to the last picture. Pressing the multi selector down or right when the last picture is displayed takes you to the first picture. Image File and Folder Names In the memory or on the memory card, pictures are identified by file names with three parts: a four letter identifier, a four-digit file number assigned automatically by the camera in ascending order, and a three-letter extension (e.g., "DSCN0001.JPG") Picture type Original Still picture Movie Small copy Copy Cropped copy Copy created with the D-Lighting function Voice memo Identifier DSCN DSCN SSCN RSCN FSCN DSCN SSCN RSCN FSCN Extension .JPG .

MOV .JPG .JPG .JPG Q 22 64 83 44 45 Voice memo appended to still picture (E5600 only) .WAV 47 When a picture is viewed in the monitor, the file number and extension appear in the top right corner of the display. The identifier is not displayed, but is visible when the picture is transferred to a computer. Pictures are stored in folders created automatically by the camera and named with a three-digit folder number followed by "NIKON" (e.g., "100NIKON"). Folders can hold up to 200 pictures; if you take a picture when the current folder contains 200 pictures, a new folder will be created by adding one to the current folder number.

If you take a picture when the current folder contains a picture numbered 9999, a new folder will be created and file numbering will begin again from 0001. If the number of files reaches 200 or file numbering reaches 9999 when the memory or memory card contains a folder numbered 999, no further pictures can be taken until the memory or memory card has been formatted (Q 97) or a new memory card inserted.



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Basic Photography 23 More on Photography When Lighting Is Poor: Using the Flash The following flash modes are available: Mode !# Auto % Auto with red-eye reduction How it works When to use it Flash fires when lighting is Best choice in most situations. poor. Use for portraits (works best when subject is well within range of flash and looking at pre-flash).

When using this Flash fires before main mode, the red-eye reduction function flash, reducing "red-eye." will also work automatically for the picture recorded. Not recommended when quick shutter response is required. Use to capture natural lighting under Flash will not fire even dim light or where use of flash is prohibited. If 2 (camera shake) icon appears, when lighting is poor.

care should be taken to avoid blurring. Flash fires whenever picture Use to "fill-in" (illuminate) shadows and is taken. back-lit subjects. Auto flash combined with Use to capture both subject and backslow shutter speeds. ground at night or under dim light. More on Photography \$ Flash Cancel (off) ! Anytime Flash (fill flash) k (Slow sync) To select the flash mode: 1 Flash AUTO AUTO : Set 2 Flash AUTO : Set AUTO Display Flash menu. AUTO Highlight desired mode (to exit without changing mode, wait for a while or press the multi selector to left). Auto with Red-eye Reduction The E5600/E4600 Auto with red-eye reduction flash function uses an advanced red-eye reduction method. Several pre-flashes are fired before the main flash to reduce "red-eye." In addition, if red-eye is detected, the camera will automatically correct it when storing the picture ("In-Camera Red-Eye Fix").

When using this function, there is a slight delay before you can press the shutter-release button again for the next shot. Depending on the situation, red-eye reduction may not always produce the desired results. In some rare cases, other picture areas may be affected. Choose another flash mode and try again. 24

When Lighting Is Poor: Using the Flash 3 5M Exit menu. Flash mode shown by icon at bottom of monitor. More on Photography 10 Sensitivity (ISO Equivalency) "Sensitivity" is a measure of how quickly the camera responds to light. Your Nikon digital camera normally has a sensitivity roughly equivalent to film with an ISO 50 rating. When lighting is poor and the flash is off (\$), the camera will automatically increase sensitivity, permitting faster exposures and minimizing blur caused by inadvertent camera movement (camera shake). An ISO icon will appear in the monitor to warn that the picture may be slightly mottled.

5M 10 The 2 (Camera Shake) Icon When lighting is poor and the flash is off (\$), shutter speeds will slow and pictures may be blurred. If the shutter speed required for exposure is very slow, a 2 (camera shake) warning will appear in the monitor. Use of a tripod or support is recommended. 5M 10 Flash Range Flash range varies with zoom position. The range at minimum zoom is 0.

4 - 3.3m (1'4" - 10'10") and 0.4 - 2.0 m (1'4" - 6'7") at maximum zoom. Close-Ups The flash may not be able to light the entire subject at distances of less than 40 cm (1'4").

When taking close-ups, play each picture back after shooting to check the results. Flash Mode Selection In P (auto) mode, the camera "remembers" the current flash mode setting even when the camera is turned off. The most recent setting will automatically be restored whenever the mode dial is set to P unless the Reset all option in the SET-UP menu is used to restore the default setting (Q 100). Depending on the shooting mode selected, the flash mode may change automatically when you choose a new shooting mode (Q 28-41). 25 Taking a Self-Portrait: Using the Self-Timer When the self-timer is on, pictures are taken ten seconds after the shutter-release button is pressed. This can be used to allow you to appear in your own pictures or to prevent close-up or low-light shots from being blurred by the camera movement that occurs when the shutter-release button is pressed. When using this option, you should either mount the camera on a tripod (recommended) or rest it on a flat, level surface. More on Photography 1 Self-timer 2 OFF ON OFF Self-timer OFF ON OFF : Set Display Self-timer menu. Highlight ON (to exit without changing mode, wait for a while or press multi selector to left). 3 10 4 10 5M AUTO 10 Exit menu.

Self-timer icon is displayed in monitor. Frame picture and start timer. Countdown timer shows number of seconds remaining until picture is taken. Focus and exposure lock when the shutter-release button is pressed. The self-timer lamp on the front of the camera will blink until one second before the picture is taken, staying lit during the final second to warn that the shutter is about to be released. Stopping the Self-Timer To stop the timer before the picture is taken, press the shutter-release button. The Self-Timer The self-timer is not available in some shooting modes (Q 28-41). 26 Easy Close-ups: Macro Close-up Mode Macro close-up mode is used for taking close-up shots of small objects at very short distances (minimum 4 cm/1.6). More on Photography 1 Macro close-up 2 OFF ON : Set Macro close-up OFF ON : Set Display Macro close-up menu.

Highlight ON (to exit without changing setting, wait for a while or press multi selector to left). 3 4 5M AUTO 10 Exit menu. & icon appears in monitor when camera is in macro close-up. Frame picture. If zoom indicator and & icon are displayed in green, camera can focus at a distance of 4 cm/1.

6. Macro Close-up Mode At short ranges, the viewfinder does not show the image that will appear in the final picture. Use the monitor for close-ups. In macro close-up mode, the camera focuses continuously, even when the shutter-release button is not pressed halfway. Macro close-up is not available in some shooting modes (Q 28-41).

27 Assist and Scene Modes Your Nikon digital camera offers a choice of four "assist" and twelve "scene" modes. In these modes, camera settings are automatically optimized for the selected subject type, sparing you the necessity of adjusting settings one-by-one. More on Photography Assist Modes Assist modes are chosen by rotating the mode dial to the desired mode. Framing assist options are available to help you compose your shots. Mode i N Portrait assist Landscape assist Description Use for portraits in which the main subject stands out clearly while background details are softened. Use to enhance outlines, colors, and contrast in skyscapes, forests, and other landscape shots, or to take portraits that feature a landmark in the background. Use for sports shots that freeze motion in rapidly-moving subjects. Use for portraits taken against a dimly-lit backdrop. Q 31 32 33 34 j Sports assist m Night portrait assist Scene Modes Scene modes are selected by rotating the mode dial to e and selecting the desired scene from a menu.



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Mode B C D E PARTY/INDOOR BEACH/SNOW SUNSET DUSK/DAWN Description Use to capture background details or the effects of candlelight and other indoor lighting.

Use for bright subjects such as snowfields, beaches, and sunlit expanses of water. Use to preserve the deep hues seen in sunsets and sunrises. Use to preserve the colors seen in the weak natural light before sunrise and after sunset. Use when taking landscape shots at night. Use to capture vivid colors in close-up shots of flowers, insects, and other small objects. Use where flash photography is prohibited. Use to capture the expanding burst of light from a firework. Use to copy text and line drawings. Use when light is coming from behind your subject, throwing their features into shadow. Use when taking underwater photographs using the water-proof case (WP-CP3).

Use when taking a series of pictures that will later be joined to form a single scene. Q 36 36 36 37 37 37 38 38 38 39 39 40 F NIGHT LANDSCAPE A CLOSE UP G MUSEUM H FIREWORKS SHOW I COPY J M BACK LIGHT UNDERWATER K PANORAMA ASSIST 28 Assist and Scene Modes Assist and Scene Modes Depending on your subject, assist and scene modes may not always produce the desired results. If results are not to your satisfaction, choose P (auto) and try again. More on Photography Image Mode The Image mode option is available in the assist mode and scene mode menu (Q 67). IMAGE MODE IMAGE MODE :Exit :Set :Help :Exit :Set :Help Assist and Scene Modes Help Pressing O(T) button when displaying the assist or scene menu displays the help for the selected assist or scene.

PORTRAIT Use for portrait pictures, create soft skin tone effects. :Exit :Set :Back 29 Framing Assist The four assist modes offer a selection of framing assist options that allow you to compose pictures with the help of framing guides displayed in the monitor. To use framing assist, rotate the mode dial to the desired mode and follow the steps below. More on Photography 1 :Exit PORTRAIT 2 PORTRAIT CLOSE-UP :Set :Help :Exit :Set :Help After selecting mode, display framing assist menu. Choose composition type.

Current selection shown by large icon and caption. 3 5M 4 10 5M 10 Make selection to return to shooting mode. Framing guide appears in monitor. When taking pictures, position subject or subjects in framing guide as described on following pages. Using the Guides Your subject does not have to fit exactly in the framing guides. When framing pictures, pay attention to your surroundings; be careful not to trip and fall. 30 Framing Assist i Portrait Assist i (portrait assist) mode helps you frame portraits in which the main subject stands out clearly while background details are softened, lending the composition a sense of depth (the degree of softening depends on the amount of light available). A framing assist menu helps you frame off-center subjects and compose tall or wide shots and two-person portraits. PORTRAIT More on Photography i PORTRAIT No guides are displayed in monitor. Camera focuses on subject in center of frame; focus lock can be used to focus on off-center subjects.

:Exit :Set :Help PORTRAIT LEFT 9 PORTRAIT LEFT Use to compose shot with subject centered in left half of frame. Camera will focus on subject in framing guide. :Exit :Set :Help PORTRAIT RIGHT 0 PORTRAIT RIGHT Use to compose shot with subject centered in right half of frame. Camera will focus on subject in framing guide. : PORTRAIT CLOSE-UP Use to compose shot with your subject's face positioned in top half of frame. Camera will focus on face area in framing guide. [PORTRAIT COUPLE Use to compose shot with two subjects positioned side-by-side. Camera will focus on closest subject. ; PORTRAIT FIGURE Use to compose shot with camera held as shown at right and subject's face in top half of frame. Camera will focus on face area in framing guide.

:Exit :Set :Help PORTRAIT CLOSE-UP :Exit :Set :Help PORTRAIT COUPLE :Exit :Set :Help PORTRAIT FIGURE :Exit :Set :Help ! % Y OFF* & OFF * Other modes can be selected. 31 Framing Assist N Landscape Assist N (landscape assist) mode helps you frame vivid landscape shots that enhance outlines, colors, and contrast. A framing assist menu helps you frame not only natural landscapes but also cityscapes and portrait shots featuring a landmark in the background. LANDSCAPE More on Photography N LANDSCAPE No guides are displayed in monitor. Use to focus on distant objects through foreground objects such as windows or a screen of branches.*

Focus is fixed at infinity. :Exit :Set :Help SCENIC VIEW 6 SCENIC VIEW Use to compose landscapes with sky in top third of frame, distant objects in middle third, and closer objects in bottom third. Match top of skyline with wavy yellow guide. :Exit :Set :Help ARCHITECTURE 7 ARCHITECTURE Use to photograph buildings. A grid is displayed in the monitor to help keep verticals and horizontals aligned with the frame.

:Exit :Set :Help ! \$ Y OFF & OFF GROUP RIGHT 5 GROUP RIGHT Use to compose portraits with portrait subjects to right and landmark or other object in background at left of frame. Both portrait subject and background object will be in focus. :Exit :Set :Help GROUP LEFT 8 GROUP LEFT Use to compose portraits with portrait subjects to left and landmark or other object in background at right of frame. Both portrait subject and background object will be in focus. :Exit :Set :Help ! !#* Y OFF* & OFF * Other modes can be selected. 32 Framing Assist j Sports Assist j (sports assist) mode is used for dynamic action shots that capture moving objects. The assist menu lets you freeze the action in a single shot or record motion in a series of pictures. More on Photography SPORTS j SPORTS While shutter-release button is held down, pictures are recorded at rate of about 3 frames every 2 seconds (rate of shooting will slow when < icon is displayed). With E5600, camera records eleven shots when image mode is set to H Normal (2592). With E4600, camera records eight shots when image mode is set to F Normal (2288).*

Focus, exposure, and white balance are determined by first shot in each series. Camera focuses continuously, even when shutter-release button is not pressed.

:Exit :Set :Help SPORT SPECTATOR \ SPORT SPECTATOR Sport spectator is ideal for capturing those instants when you have no time to compose the picture. Use at ranges of 3 m to infinity. A series of shots can be taken by holding the shutter-release button down. Number of shots that can be taken is the same as for j (Sports) mode. :Exit :Set :Help SPORT COMPOSITE j SPORT COMPOSITE Each time shutter-release button is pressed, camera takes 16 shots in about three seconds and arranges them in four rows to form a single c Economy (1600) picture.



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Focus, exposure, and white balance are determined by first shot in each series. :Exit :Set :Help ! \$ Y OFF & OFF Sports Assist In Sports or Sports composite mode, the focus is constantly reset until it is locked by pressing the shutter-release button halfway. 33 Framing Assist m Night Portrait Assist m (night portrait assist) mode is used for taking portrait shots at night, when it provides a natural balance between the main subject and the background.

Pictures taken at slow shutter speeds are adjusted to improve quality, slightly increasing processing time; to prevent blurring, mount the camera on a tripod or rest it on a flat, stable surface. For more information on framing assist options, see i Portrait Assist (Q 31). ! % Y OFF* & OFF More on Photography * Other modes can be selected. Flash Mode Selection in m Mode Flash mode is automatically set to % (auto with red-eye reduction). 34 e Scene Mode e (scene) mode offers a menu of twelve "scenes," each corresponding to a common situation, such as a backlit subject, sunset, or interior shot.

Camera settings are automatically adjusted to suit the selected scene, sparing you the necessity of adjusting each setting separately. To take pictures in scene mode, rotate the mode dial to e and follow the steps below. More on Photography Scene mode 1 :Exit PARTY/INDOOR 2 :Exit BEACH/SNOW :Set :Help :Set :Help Display scene menu. Choose scene. Current selection shown by large icon and caption.

3 5M AUTO 10 Make selection to return to shooting mode. Selected scene shown by icon at top left corner of monitor. 35 e Scene Mode The following scenes are available: BPARTY/INDOOR Use for shots that include details of the background, or to capture the effects of candlelight and other indoor background lighting. More on Photography ! %* Y OFF* & OFF CBEACH/SNOW Vividly captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water. Flash mode automatically set to !AUTO; other modes can be selected. ! !#* Y OFF* & OFF DSUNSET Preserves the deep hues seen in sunsets and sunrises. ! \$* Y OFF* & OFF * Other modes can be selected. The 2 (Camera Shake) Icon When the 2 icon appears in the monitor, pictures may be blurred. In this section, the precautions that you can take to avoid blur are indicated by stars: hold camera in both hands and brace elbows against your body. use a tripod or rest the camera on a flat, level surface.

36 e Scene Mode EDUSK/DAWN More on Photography Preserves the colors seen in the weak natural light before sunrise or after sunset. Focus is fixed at infinity. Pictures taken at slow shutter speeds are processed to improve quality, slightly increasing time before pictures are saved to memory or memory card. ! \$ Y OFF* & OFF FNIGHT LANDSCAPE A slow shutter speed is used to produce stunning night landscapes. Focus is fixed at infinity. Pictures taken at slow shutter speeds are processed to improve quality, slightly increasing time before pictures are saved to memory or memory card. ! \$ Y OFF* & OFF ACLOSE UP Use to capture vivid colors in close-up shots of flowers, insects, and other small objects, with the background artistically blurred. Flash mode automatically set to !AUTO; other modes can be selected. Camera focuses continuously, even when shutter-release button is not pressed halfway. Minimum focus distance varies with zoom position.

To focus on objects as close as 4 cm/1.6" to the lens, adjust zoom until the macro close-up icon (&) in monitor turns green. ! !#* Y OFF* & ON * Other modes can be selected. 37 e Scene Mode GMUSEUM More on Photography Flash turns off (\$) automatically. Use this mode indoors where flash photography is prohibited (for example, in museums and art galleries) or in other indoor settings in which you do not want to use the flash.

The Best Shot Selector (BSS;Q 73) turns on automatically, reducing the effects of inadvertent camera movement. Macro close-up turns off automatically; other modes can be selected. Photography may be prohibited altogether in some settings. Be sure to obtain permission first. ! \$ Y OFF* & OFF* HFIREWORKS SHOW Slow shutter speeds are used to capture the expanding burst of light from a firework.

The camera responds more rapidly to the shutter-release button, ensuring that you can capture the start of the burst. Focus is fixed at infinity. Follow the firework as it ascends and press the shutter-release button all the way down at the start of the burst. ! \$ Y OFF & OFF ICOPY Provides clear pictures of text or drawings on a white board or in printed matter such as a business card. Flash and macro close-up turn off automatically; other modes can be selected. Colored text and drawings may not show up well in the final picture. ! \$* Y OFF* & OFF* * Other modes can be selected. 38 e Scene Mode JBACK LIGHT More on Photography Use when light is coming from behind your subject, throwing their features into shadow, or when your subject is in the shade but the background is brightly lit. The flash will fire automatically to "fill in" (illuminate) shadows. ! ! Y OFF* & OFF MUNDERWATER Use when taking underwater photographs using the water-proof case (WP-CP3).

! !#* Y OFF* & OFF* * Other modes can be selected. 39 e Scene Mode KPANORAMA ASSIST Use to take a series of photographs that you will later join to form a single scene (for example, a panorama or 360° virtual-reality image). ! \$* Y OFF & OFF* More on Photography * Other modes can be selected. To use panorama assist, follow the steps below. 1 PANORAMA ASSIST 2 5M :Exit :Set :Help 10 Highlight K (PANORAMA ASSIST). Press 1 (the center of the multi selector). Pan direction displayed in greenish yellow. 3 Right to left Bottom to top Left to right 5M 10 Top to bottom Select how pictures will be joined together in completed panorama. This is the direction in which to pan the camera after each shot. 4 5M Make selection (to change selected pan direction, press center of multi selector and repeat steps 34).

Pan direction displayed in white. 10 40 e Scene Mode 5 5M AE-L Take first picture. About one third of picture is shown superimposed on view through lens (if pan direction is left to right, picture will appear on left side of monitor). More on Photography 10 6 5M AE-L AF 7 10 Compose the next shot to overlap with the previous picture. Take the next picture.

Repeat steps 6 and 7 until all shots in series have been taken. 8 End series. Shooting will also end if a new mode is selected or camera enters standby mode. Panorama Assist The pan direction, flash mode, macro close-up mode, and exposure compensation can not be changed after the first picture is taken.



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