



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON COOLPIX S220. You'll find the answers to all your questions on the NIKON COOLPIX S220 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 S220  
User guide NIKON COOLPIX S220  
Operating instructions NIKON COOLPIX S220  
Instructions for use NIKON COOLPIX S220  
Instruction manual NIKON COOLPIX S220

**Nikon**

DIGITAL CAMERA

COOLPIX S220/S225  
User's Manual



En



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**Manual abstract:**

· PictBridge is a trademark. @@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 this Nikon product, to prevent possible injury. WARNINGS Turn off in the event of malfunction Should you notice smoke or an unusual smell coming from the camera or AC adapter, unplug the AC adapter and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury. After removing or disconnecting the power source, take the equipment to a Nikon-authorized service representative for inspection. Do not disassemble Touching the internal parts of the camera or AC adapter could result in injury. Repairs should be performed only by qualified technicians. Should the camera or AC adapter break open as the result of a fall or other accident, take the product to a Nikon-authorized service representative for inspection, after unplugging the product and/or removing the battery. Do not use the camera or AC adapter 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.

Handle the camera strap with care Never place the strap around the neck of an infant or child. Keep out of reach of children Particular care should be taken to prevent infants from putting the battery or other small parts into their mouths. ii For Your Safety Observe caution when handling the battery The battery may leak or explode if improperly handled. Observe the following precautions when handling the battery for use in this product: · Before replacing the battery, turn the product off. If you are using the AC adapter, be sure it is unplugged.

· Only use a Rechargeable Li-ion Battery EN-EL10 (supplied). Charge the battery by inserting it in a Battery Charger MH-63 (supplied). · When inserting the battery, do not attempt to insert it upside down or backwards. · Do not short or disassemble the battery or attempt to remove or break the battery insulation or casing. · Do not expose the battery to flame or to excessive heat.

· Do not immerse in or expose to water. · Return the battery to the battery case for transportation. Do not transport or store with metal objects such as necklaces or hairpins. · The battery is prone to leakage when fully discharged. To avoid damage to the product, be sure to remove the battery when no charge remains. · Discontinue use immediately should you notice any change in the battery, such as discoloration or deformation. · If liquid from the damaged battery comes in contact with clothing or skin, rinse immediately with plenty of water. Observe the following precautions when handling the battery charger Keep dry. Failure to observe this precaution could result in fire or electric shock. Dust on or near the metal parts of the plug should be removed with a dry cloth.

Continued use could result in fire. Do not handle the power cable or go near the battery charger during lightning storms. Failure to observe this precaution could result in electric shock. Do not damage, modify, forcibly tug or bend the power cable, place it under heavy objects, or expose it to heat or flames. Should the insulation be damaged and the wires become exposed, take it to a Nikon-authorized service representative for inspection. Failure to observe these precautions could result in fire or electric shock. Do not handle the plug or battery charger with wet hands. Failure to observe this precaution could result in electric shock. Do not use with travel converters or adapters designed to convert from one voltage to another or with DCto-AC inverters. Failure to observe this precaution could damage the product or cause overheating or fire.

· · · · · iii For Your Safety 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. Handle moving parts with care Be careful that your fingers or other objects are not pinched by the lens cover or other moving parts. CD-ROMs The CD-ROMs supplied with this device should not be played back on audio CD equipment. Playing CDROMs on an audio CD player could cause hearing loss or damage the equipment. Observe caution when using 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 (3 ft. 4 in.) from the subject. Do not operate the flash with the flash window touching a person or object Failure to observe this precaution could result in burns or fire. Avoid contact with liquid crystal Should the monitor break, care should be taken to avoid injury caused by broken glass and to prevent liquid crystal from the monitor touching the skin or entering the eyes or mouth.

iv Notices Notice for Customers in the U.S.A. Federal Communications Commission (FCC) Radio Frequency Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and receiver. · Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

· 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.



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*.62 Sorting Favorite Pictures (Favorite Pictures Mode) ....*

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*.63 Preparing Favorites Folder....*

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*...67 Favorite Pictures Menu .....*

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.....72 *Movie Playback* ...

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73 *Deleting Movie Files*.....

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...109 Basic Camera Setup: The Setup Menu..

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*. 114 c Welcome Screen ....*

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*119 U Motion Detection .....*

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*nikon.com/ Introduction Use Only Nikon Brand Electronic Accessories Nikon COOLPIX cameras are designed to the highest standards and include complex electronic circuitry.*

*Only Nikon brand electronic accessories (including battery chargers, batteries and AC adapters) certified by Nikon specifically for use with this Nikon digital camera are engineered and proven to operate within the operational and safety requirements of this electronic circuitry. THE USE OF NON-NIKON ELECTRONIC ACCESSORIES COULD DAMAGE THE CAMERA AND MAY VOID YOUR NIKON WARRANTY. The use of third-party rechargeable Li-ion batteries not bearing the Nikon holographic seal could interfere with normal operation of the camera or result in the batteries overheating, igniting, rupturing, or Holographic seal: leaking. Identifies this device as an For more information about Nikon brand accessories, contact a local authentic Nikon product. authorized Nikon dealer.*

*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. About the Manuals · 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.*

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*Do not use this product for the purpose of making illegal copies or to infringe copyright laws. Introduction Disposing of Data Storage Devices Please note that deleting images or formatting data storage devices such as memory cards or builtin camera memory 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 the welcome screen (A 114). Care should be taken to avoid injury or damage to property when physically destroying data storage devices. 3 Parts of the Camera The Camera Body 1 Introduction 2 3 4 5 6 8 9 7 Lens cover closed 10 1 Shutter-release button...*

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.....24 Zoom control ...

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.....23 f: wide ...

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..23 g : tele.....

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.....  
23 h : thumbnail playback.....

.....  
.47 i : playback zoom....

.....  
...49 j : help ..

.....11 Power switch/Power-on lamp .

.....  
20, 122 4 5 6 7 8 9 Built-in flash.....

.....  
...28 Self-timer lamp.

.....  
.30 Lens .....

.....  
.....133, 144 Eyelet for camera strap..

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.....11 Built-in microphone ..

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...55, 70, 74 Speaker..

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.....56, 73, 76 2 3 10 Lens cover ....

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131 4 Parts of the Camera 1 Introduction 2 3 4 5 6 7 8 Opening the pin cover 9 10 11 12 13 14 15 1 2 3 4 5 6 7 8 Indicator lamp.....

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... 74 Flash lamp ..

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.... 29 A (shooting mode) button.

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..... 8 c (playback) button.....

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.. 8, 26 Multi selector.....

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..... 9 k (apply selection) button.....

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.. 9 l (delete) button...

.....26, 27, 56, 73, 77 d button ....

.... 10, 33, 71, 92, 105, 112 Monitor.....

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6 9 Cable connector .....

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..... 79, 81, 85 Pin/power connector cover ...

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..79, 81, 85, 129 Battery-chamber/ memory card slot cover.....

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. 14, 18 10 Tripod socket 11 12 13 Battery-chamber.....

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.... 14 14 Memory card slot .....

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18 15 Battery latch.....

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14, 15 5 Parts of the Camera The Monitor The following indicators may appear in the monitor during shooting and playback (actual display varies with current camera settings). The indicators that appear in the monitor during shooting and playback disappear after a few seconds (A 118). Introduction Shooting 2 26 25 23 22 21 20 18 1 2 3 4 5 6 7 8 9 10 4 1 24 3 5 6 7 8 9 10 11 12 13 1600 1/125 F3.1 600 19 16 15 14 a 17 b a Number of exposures remaining (still pictures).....

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20 b Movie length.....

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.....70 Internal memory indicator...

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.....21 Aperture .

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*24 Focus area .....*

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*. 24, 100 Focus area (Face Priority)....*

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*24, 100 Shutter speed .....*

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*....24 ISO sensitivity .*

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*.29, 99 Exposure compensation value .....*

*...32 Color options ..*

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*...99 White balance mode.....*

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*.....95 Self-timer indicator...*

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*30 Continuous shooting mode.....*

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*...97 Blink proof icon.....*

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*....46 6 Shooting mode\* .*

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*.....20, 33, 45, 70 14 Macro mode.*

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. 31 Zoom indicator.....

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..... 23, 31 15 AE/AF-L indicator .

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44 16 Focus indicator .....

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..... 24 17 Flash mode....

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. 28 18 Battery level indicator.....

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... 20 19 Motion detection icon .....

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.. 21, 120 20 Electronic VR icon .....

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..... 113 21 Distortion control icon.

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..... 103 22 "Date not set" indicator ....

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. 134 11 23 Time zone indicator.....

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.... 115 24 12 Date imprint .....

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... 119 25 Image mode..

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..... 93 13 Movie options .....

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... 71 26 \* Differs according to the current shooting mode. Parts of the Camera Introduction Playback 1 17 16 2 3 4 5 6 15 05 2009 12:00 9999.



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..... 16 Time of recording...

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.. 16 Volume indicator...

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... 55, 73, 76 Category icon in auto sort mode1 ..

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..... 60 Favorites folder icon in favorite pictures mode1 ...

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.... 66 Battery level indicator.....

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..... 20 Protect icon....

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.. 108 Image mode2 ...

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..... 93 Movie options2 ...

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... 71 a Current frame number/ total number of frames .....

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.. 26 b Movie length ...

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... 73 9 10 11 12 13 14 Internal memory indicator.....

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.....26 Favorite pictures guide.....

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....65 Movie playback guide .....

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.....73 List by date guide.....

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.....57 Print set icon....

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.....90 Small picture icon ..

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.....54 Quick retouch icon..

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.51 15 D-Lighting icon....

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..52 16 Voice memo icon .....

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...56 17 File number and type ..

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.. 130 The icon for the selected category in auto sort mode or the favorites folder currently selected in playback mode is displayed. Differs according to the

settings configured during shooting. 7 Basic Operations The A (Shooting Mode) Button · Press the A button in playback mode to enter shooting mode. · Press the A button in shooting mode to display the shooting-mode selection menu. Introduction The Shooting-mode Selection Menu In the shooting-mode selection menu, use the multi selector to change the shooting mode. 1 2 3 4 Auto mode 1. 2. 3.

4. A (auto) mode (A 20) x Scene mode\* (A 33) a Smile mode (A 45) D Movie mode (A 70) \* The icon displayed differs depending upon the last scene mode selected. To return to the shooting mode while the shooting-mode selection menu is displayed, press the A button again. The c (Playback) Button · Press the c button in shooting mode to enter playback mode. · Press the c button in playback mode to display the playback-mode selection menu. · If the camera is turned off, hold down the c button to turn the camera on in playback mode. The Playback-mode Selection Menu In the playback-mode selection menu, use the multi selector to change the playback mode. 1 2 3 4 Play 1. 2. 3.

4. c Playback mode (A 26) h Favorite pictures mode (A 63) F Auto sort mode (A 60) C List by date mode (A 57) 8 To return to the playback mode while the playback-mode selection menu is displayed, press the c button again. Basic Operations The Multi Selector This section describes standard uses of the multi selector to select modes, select menu options and to apply selection. Introduction For Shooting Display m (flash mode) (A 28) menu or move cursor up Display o (exposure compensation) (A 32) guide Apply selection Display n (self-timer) (A 30) menu Flash mode Display p (macro mode) (A 31) menu or move cursor down For Playback Select previous picture 15/05/2009 15:30 0004.JPG 4 4 Select next picture For the Menu Screen Move cursor up Move cursor left or return to previous screen Move cursor right or go to next screen (apply selection) Shooting menu Image mode White balance Continuous ISO sensitivity Color options Exit Beach/snow Apply selection (go to next screen) Move cursor down C Note on the Multi Selector In the manual, the button indicating up, down, left and right of the multi selector is shown as H, I, J and K. 9 Basic Operations The d Button Press the d button to display the menu for the selected mode. · Use the multi selector to navigate the menus (A 9). · Choose the z tab on the left to display the setup menu. · Press the d button again to exit the menu. Displayed when the menu contains two or more pages Shooting menu Introduction · Top tab: Display the available menus in the current mode · Bottom tab: Display the setup menu Displayed when there are one or more menu items to follow Displayed when there are more previous menu items Shooting menu Image mode White balance Continuous ISO sensitivity Color options Exit The selected option AF area mode Face priority Auto Manual Center Exit AF area mode Distortion control Exit Press the k button or the multi selector K to proceed to the next set of options Press the k button or the multi selector K to apply selection Switching Between Tabs Shooting menu Image mode White balance Continuous ISO sensitivity Color options Exit Shooting menu Image mode White balance Continuous ISO sensitivity Color options Exit Set up Electronic VR Menus Welcome screen Date Monitor settings Exit Press the multi selector J to highlight the tab 10 Press the multi selector H or I to select the tab, and press either the k button or K The selected menu is displayed Basic Operations Help Displays Rotate the zoom control to g (j) when M/L is displayed at the lower right of the menu screen to view a description of the currently selected menu option.

To return to the original menu, rotate the zoom control to g (j) again. White balance For accurate color reproduction, choose a setting that matches the light source. Introduction Exit Back Shutter-release Button The camera features a two-stage shutter-release button. To set focus and exposure, press the shutter-release button halfway, stopping when you feel resistance. Focus and exposure lock while the shutter-release button is held in this position. To release the shutter and take a picture, press the shutter-release button the rest of the way down. Do not use force when pressing the shutter-release button, as this may result in camera shake and blurred pictures. Press the shutter-release button halfway to set focus and exposure Press the shutter-release button the rest of the way down to take picture Attaching the Camera Strap 11 First Steps Charging the Battery The camera uses a Rechargeable Li-ion Battery EN-EL10 (supplied). Charge the battery with the Battery Charger MH-63 (supplied) before first use or when the battery is running low. 1 First Steps Connect the power cable.

Connect the power cable to the battery charger 1 and insert the wall plug into a power outlet 2. The CHARGE lamp will light to show that the charger is on 3. 2 3 1 2 Charge the battery. Insert the battery at an angle as shown 1, and set it in the battery charger 2. 1 2 CHARGE lamp starts blinking when battery is inserted 3. Charging is complete when lamp stops blinking 4. About 100 minutes are required to charge a fully depleted battery. 3 4 12 Charging the Battery The following chart explains CHARGE lamp status. CHARGE lamp Blinks On Battery charging. Battery fully charged.

· The battery is not inserted correctly. Remove the battery and reinsert it into the battery charger so that the battery is lying flat. · Charge the battery indoors with an ambient temperature of 5 °C to 35 °C (41 °F to 95 °F) before use. · The battery is faulty. Stop charging immediately, unplug the charger, and take both the battery and charger to your retailer or Nikon service representative. First Steps Description Flickers 3 Remove the battery and unplug the charger when charging is complete. B Notes on the Battery Charger · The supplied battery charger is for use only with the Rechargeable Li-ion Battery EN-EL10.



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Be sure to use only genuine Nikon brand rechargeable batteries. Be sure to read and follow the warnings for the battery charger on pages iii before using the battery charger. B Notes on the Battery Be sure to read and follow the warnings for the battery on page iii and the section, "The Battery" (A 132), before using the battery.

If the battery is not used for an extended period, recharge it at least once every six months and run it flat before returning it to storage. C AC Power Supply To power the camera continuously for extended periods, use an AC Adapter EH-62D (available separately from Nikon) (A 129). 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. 13 Inserting the Battery Insert a Rechargeable Li-ion Battery EN-EL10 (supplied) into your camera.

Charge the battery before the first use or when the battery is running low (A 12). 1 First Steps Open the battery-chamber/memory card slot cover. 2 Insert the battery. Confirm that the positive (+) and negative (-) terminals are oriented correctly as described on the label at the entrance of the battery chamber, and insert the battery. Use the battery to push the orange battery latch in the direction indicated by the arrow 1 and fully insert the battery 2. When the battery is fully inserted, the battery latch will lock it in place. B Inserting the Battery Inserting the battery upside down or backwards could damage the camera. Be sure to check the battery is in the correct orientation. 3 Close the battery-chamber/memory card slot cover. 14 Inserting the Battery Removing the Battery Turn the camera off and make sure that the power-on lamp and the monitor have gone out before opening the battery-chamber/memory card slot cover. To eject the battery, open the battery-chamber/memory card slot cover and slide the orange battery latch in the direction indicated by the arrow 1. The battery can then be removed by hand 2. Note that the battery may become hot during use; observe due caution when removing the battery. First Steps Turning On and Off the Camera To turn on the camera, press the power switch. The power-on lamp (green) will light for a moment and the monitor will turn on.

To turn off the camera, press the power switch again. When the camera is turned off, both the power-on lamp and monitor will turn off. If the camera is turned off, hold down the c button to turn the camera on in playback mode. C Auto Power Off in Shooting Mode (Standby Mode) If no operations are performed for about a minute (default setting), the monitor will turn off automatically and the camera will enter standby mode. If no operations are performed for another three minutes, the camera will turn off automatically (the auto off function). Pressing the power switch, or the shutter-release button, while the monitor is off in standby mode will reactivate the monitor. The time allowed to elapse from before the camera enters standby mode can be changed from the Auto off option (A 122) in the setup menu (A 111). 15 Setting Display Language, Date and Time A language-selection dialog is displayed the first time the camera is turned on. 1 First Steps Press the power switch to turn on the camera. The power-on lamp (green) will light for a moment and the monitor will turn on.

2 Use the multi selector to choose the desired language and press the k button. For information on using the multi selector, see "The Multi Selector" (A 9). 3 Choose Yes and press the k button. If No is selected, the date and time will not be set. Date Set time and date? No Yes Cancel 4 Press the multi selector J or K to select your home time zone (A 117) and press the k button.

London Casablanca Back D Daylight Saving Time London Casablanca 16 If daylight saving time is in effect, press the multi selector H in the time zone selection screen displayed in step 4 to turn on the daylight saving time option. When the daylight saving time option is enabled, W is displayed at the top of the monitor. To turn off the daylight saving time option, press I. Back Setting Display Language, Date and Time 5 Edit the date and time. Press H or I to edit the highlighted item.

Press K to move the highlight in the following order. D (day) M (month) Y (year) hour minute DMY (the order in which the day, month, and year are displayed) Press J to return to the previous item. Date D M Y 01 00 01 00 2009 Edit First Steps 6 Choose the order in which the day, month and year are displayed and press the k button or press K. The settings are applied and monitor display exits to shooting mode. Date D M Y 15 14 05 30 2009 Edit D Changing the Date and Time Select Date from the Date item (A 115) in the setup menu (A 111) to change the current date and time and follow the procedure described in step 5 above. Select Time zone from the Date item in the setup menu to change the time zone and daylight saving time settings (A 115). 17 Inserting Memory Cards Image, sound, and movie files are stored in the camera's internal memory (approximately 44 MB) or on removable Secure Digital (SD) memory cards (available separately) (A 129). If a memory card is inserted in the camera, data are automatically stored on the memory card and data recorded to the memory card can be played back, deleted or transferred. Remove the memory card to store data in the internal memory, or play back, delete or transfer data from the internal memory. First Steps 1 Confirm the power-on lamp and the monitor are off and open the battery-chamber/memory card slot cover.

Be sure to turn off the camera before opening the battery-chamber/memory card slot cover. 2 Insert the memory card. Slide the memory card in correctly until it clicks into place. Close the battery-chamber/memory card slot cover. B Inserting Memory Cards Inserting the memory card upside down or backwards could damage the camera or the memory card. Be sure to check the memory card is in the correct orientation. Removing Memory Cards Before removing memory cards, turn the camera off and confirm that the power-on lamp and monitor are off. Open the battery-chamber/memory card slot cover and press the card in 1 to partially eject the card. The card can then be removed by hand. Do not attempt to remove the card at an angle 2.

18 Inserting Memory Cards B Formatting Memory Cards Card is not formatted. Format card? No Yes If the message at right is displayed, the memory card must be formatted before use (A 123). Note that formatting permanently deletes all pictures and other data on the memory card. Be sure to make copies of any pictures you wish to keep before formatting the memory card. Use the multi selector to choose Yes and press the k button.



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The confirmation dialog will be displayed. To start formatting, choose Format and press the k button. · Do not turn the camera off or open the battery-chamber/memory card slot cover until formatting is complete. · The first time you insert the memory cards used in other devices into the COOLPIX S220/S225, be sure to format them using this camera (A 123). First Steps B The Write Protect Switch Write protect switch Memory cards are equipped with a write protect switch.

When this switch is in the "lock" position, data cannot be written to, or deleted from, the memory card. If the switch is in the "lock" position, unlock it by sliding the switch to the "write" position to record or delete pictures, or to format the memory card. B Memory Cards · Use only Secure Digital memory cards. · Do not perform the following during formatting, while data is being written to or deleted from the memory card, or during data transfer to a computer. Failure to observe this precaution could result in the loss of data or in damage to the camera or memory card: · Take out the battery or memory card · Turn off the camera · Disconnect the AC adapter · Do not format the memory card using a computer. · 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, closed vehicles or areas exposed to high temperatures.

· Do not expose to humidity, dust, or to corrosive gases. 19 Basic Photography and Playback: Auto Mode Step 1 Turn the Camera On and Select A (Auto) Mode This section describes how to take pictures in A (auto) mode, an automatic, "point-and-shoot" mode recommended for first-time users of digital cameras. 1 Press the power switch to turn on the camera. The power-on lamp (green) will light for a moment and the monitor will turn on. The lens will also extend. Proceed to step 4 when A is displayed. 2 Press the A button. Basic Photography and Playback: Auto Mode 3 Press the multi selector H or I to choose A and press the k button. The camera enters A (auto) mode. Auto mode 4 Check the battery level and the number of exposures remaining. Battery Level Monitor NO INDICATOR B N Battery exhausted. Description Battery fully charged. Battery low. Prepare to charge or replace the battery. Cannot take pictures.

Recharge or replace with a fully charged battery. Battery level indicator 18 Number of exposures remaining Number of Exposures Remaining The number of pictures that can be stored depends on the capacity of the internal memory or memory card and image mode setting (A 94). 20 Step 1 Turn the Camera On and Select A (Auto) Mode Indicators Displayed in A (Auto) Mode Shooting mode A displayed in A (auto) mode. Motion detection icon The effects of the subject movement and camera shake are reduced. 18 Basic Photography and Playback: Auto Mode Internal memory indicator Indicates that images will be stored on the camera's internal memory (approximately 44 MB).

When a memory card is inserted in the camera, C does not appear and images will be stored on the memory card. Image mode The combination of image size and image quality (compression) is displayed. The default setting is i Normal (3,648 × 2,736). The indicators and photo info displayed during shooting and playback will turn off after a few seconds (A 118). When the monitor has turned off in standby mode to save power, press the power switch or the shutter-release button to reactivate it (A 122). D Functions Available in A (Auto) Mode In A (auto) mode, macro mode (A 31) and exposure compensation (A 32) can be applied and pictures can be taken using the flash mode (A 28) and self-timer (A 30). Pressing the d button in A (auto) mode allows you to specify settings for all shooting menu items (A 92) depending upon the shooting situations. D Motion Detection When Auto (default setting) is selected for the Motion detection option (A 120) in the setup menu and the camera detects camera shake and subject movement, the camera increases shutter speed to reduce blurring. When the camera detects camera shake or subject movement and increases shutter speed, the motion detection icon will turn green. D Electronic Vibration Reduction When the flash mode (A 28) is set to W (off) or Y (slow sync) with Electronic VR (A 113) in the setup menu set to Auto, the R icon may appear in the monitor.

The appearance of R indicates shooting conditions in which the effects of camera shake can be pronounced. In these situations, the camera reduces the effects of camera shake in pictures before recording them. 21 Step 2 Frame a Picture 1 Ready the camera. Hold the camera steadily in both hands, keeping your fingers and other objects away from the lens, flash, microphone, and speaker. When taking pictures in "tall" orientation, turn the camera so that the built-in flash is above the lens. Basic Photography and Playback: Auto Mode 2 Frame the picture. When the camera recognizes a face looking toward the camera, that face will be framed by a yellow double border (default setting). If more than one face is recognized, the face nearest to the camera will be framed by a double border and the rest by a single border. AF area will not appear when shooting pictures of subjects other than people, or framing a subject with which no face is recognized. 18 22 Step 2 Frame a Picture Using the Zoom Use the zoom control to activate optical zoom.

Rotate the zoom control to g to zoom in so that the subject fills a larger area of the frame, or f to zoom out, thus increasing the area visible in the frame. A zoom indicator is displayed at the top of the monitor when the zoom control is rotated. Basic Photography and Playback: Auto Mode Zoom out Zoom in Optical zoom Digital zoom Digital Zoom When the camera is zoomed in to the maximum optical zoom position, rotating and holding the zoom control at g triggers digital zoom. The subject is magnified up to 4× the maximum optical zoom ratio. Focus will be on the center of the screen (without active focus area display) when digital zoom is in effect.

Maximum optical zoom Digital zoom is in effect. C Digital Zoom and Interpolation Unlike optical zoom, digital zoom uses a digital imaging process known as interpolation to magnify images, resulting in slight deterioration of picture quality. Interpolation is applied at zoom positions beyond V. When zoom is increased beyond the V position, interpolation is initiated and the zoom indicator turns yellow to indicate that interpolation is being applied. The position of V moves to the right as image size decreases, allowing for confirmation of the zoom positions at which shooting without interpolation is possible at the current image mode setting.



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When an image size is small Digital zoom can be disabled from the Digital zoom option (A 121) in the setup menu (A 111). 23 Step 3 Focus and Shoot I Press the shutter-release button halfway. When a face looking toward the camera is recognized: Camera will focus on the face surrounded by the double border active focus area. When the subject is in focus, the double border glows green. Basic Photography and Playback: Auto Mode 1/125 F3.1 Shutter speed Aperture When shooting pictures of subjects other than people or framing a subject with which no face is recognized: Camera automatically selects the focus area (one of nine) containing the subject closest to the camera. When the subject is in focus, the active focus area glows green. Aperture 1/125 F3.1 Shutter speed Aperture When digital zoom is used, the focus area is not displayed and the camera focuses at the center of the frame. Once focus has been acquired, the focus indicator (A 6) will glow green.

When you press the shutter-release button halfway, the shutter speed and aperture values also appear. Focus and exposure remain locked while the shutter-release button is pressed halfway. While the shutter-release button is pressed halfway, the double border for face recognition may blink, or the focus area or focus indicator may blink red. All of these cases indicate that the camera does not focus. Change the composition and press the shutter-release button halfway again. See "AF Area Mode" (A 100) or "Face Priority" (A 102) for more information about Face Priority. 2 Press the shutter-release button the rest of the way down. The shutter is released and the picture will be recorded to the memory card or internal memory. 24 Step 3 Focus and Shoot B During Recording While pictures are being recorded, the number of exposures remaining will blink. Do not open the battery-chamber/memory card slot cover while pictures 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. B Autofocus Autofocus may not perform as expected in the following situations. In some rare cases, the subject may not be in focus despite the fact that the active focus area and the focus indicator glow green: · Subject is very dark · Objects of sharply differing brightness are included in the scene (e.g. the sun is behind the subject and is in deep shadow) · No contrast between the subject and surroundings (e.g. when the subject is standing in front of a white wall, wearing a white shirt) · Several objects are at different distances from the camera (e.g. the subject is inside a cage) · Subject is moving rapidly In the situations noted above, try pressing the shutter-release button halfway to refocus several times, or focus on another subject and use focus lock (A 101). When using focus lock, be sure that the distance between the camera and the subject with which focus was locked is the same as that for the actual subject.

Basic Photography and Playback: Auto Mode C Blink Warning If the blink warning screen is displayed shortly after a picture is Did someone blink? taken in face priority mode, the eyes of human subjects may have been closed when the picture was taken. Check the picture and decide whether or not another picture should be taken. · The portrait subject, whose eyes may have been closed when the picture was taken, will be framed by a yellow border in the blink Exit warning screen. · Press the k button, or press the shutter-release button, to return to shooting mode. See "Blink Warning" (A 124) or "Operating the Blink Warning Screen" (A 125) for more information. D Flash If the subject is poorly lit, the flash may fire by pressing the shutter-release button all the way down (A 28). 25 Step 4 Playing Back and Deleting Pictures Playing Back Pictures (Playback Mode) Press the c button. The last picture taken will be displayed in fullframe playback mode. Press the multi selector H, I, J or K to view additional pictures. Pictures may be displayed briefly at low resolution while being read from the memory card or internal memory.

When playing back pictures stored on the camera's internal memory, C appears. When a memory card is inserted in the camera, C does not appear and images stored on the memory card are played back. A button Basic Photography and Playback: Auto Mode Press the A button or the shutter-release button to switch to shooting mode. 15/05/2009 15:30 0004.JPG 4 4 Internal memory indicator Deleting Pictures 1 Press the l button to delete the picture currently displayed in the monitor. 2 Use the multi selector to select Yes and press the k button. To exit without deleting the picture, choose No and press the k button. Erase 1 image? Done No Yes 26 Step 4 Playing Back and Deleting Pictures C Options Available in Playback Mode Option Use Description Rotate the zoom control to g to enlarge the picture up to 10x. Press the k button to return to full-frame playback mode. Rotate the zoom control to f to display 4, 9 or 16 picture thumbnails or to apply the calendar display.

Add the picture currently displayed to favorite pictures. Press the c button to display the playback-mode selection menu and change to list by date, auto sort, or favorite pictures mode. Press the A button or the shutter-release button to switch to the shooting mode selected in the shooting-mode selection menu. A 49 The following options are available in full-frame playback mode. Playback zoom g (i) f (h) k c A View thumbnails/ apply calendar display Add favorite pictures 47 Basic Photography and Playback: Auto Mode 65 57, 60, 66 Change playback mode Switch to shooting mode 26 C C Pressing the c Button to Turn On the Camera When the camera is off, holding down the c button will turn the camera on in playback mode.

The lens will not extend. Viewing Pictures · Pictures stored in the internal memory can only be viewed if no memory card is inserted. · When pictures in which a face was detected during shooting are displayed in full-frame playback, the pictures may be automatically rotated for playback display, depending upon the orientation of the detected face. · When the monitor has turned off in standby mode to save power, press the c button or the power switch to reactivate it (A 122). C Deleting the Last Picture Taken While in Shooting Mode Erase 1 image? In shooting mode, press the l button to delete the last picture taken. No Yes D Deleting Multiple Pictures Multiple pictures can be deleted from the Delete option (A 108) in the playback menu (A 105), the list by date menu (A 59), the auto sort menu (A 62), or the favorite pictures menu (A 68). 27 Using the Flash The flash has a range of 0.6-4.6 m (2-15 ft.) when the camera is zoomed out all the way.



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With maximum optical zoom applied, the range is 0.6-2.5 m (2-8 ft.) (when ISO sensitivity is set to Auto). The following flash modes are available.

**U V W X Auto Flash** fires automatically when lighting is poor. Auto with red-eye reduction Reduce "red-eye" in portraits (A 29). Off Flash will not fire even when lighting is poor. Fill flash Flash fires when a picture is taken. Use to "fill-in" (illuminate) shadows and backlit subjects. Y Slow sync U (auto) is combined with slow shutter speed. Flash illuminates main subject; slow shutter speeds are used to capture background at night or under dim light. Basic Photography and Playback: Auto Mode Setting the Flash Mode 1 Press m (flash mode). The flash menu is displayed. 2 Use the multi selector to choose the desired flash mode and press the k button.

The icon for the selected flash mode is displayed at the top of the monitor. When U (auto) is applied, D is only displayed for a few seconds, regardless of Photo info settings (A 118). If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. Flash mode 28 26 Using the Flash B Shooting When Lighting is Poor and the Flash is Disabled (W) · Use of a tripod is recommended to stabilize the camera during shooting and avoid the effects of camera shake. · The E indicator is displayed when the camera automatically increases sensitivity.

Pictures taken when E is displayed may be slightly mottled. B C Note on Using the Flash When using the flash, reflections from dust particles in the air may appear as bright spots in pictures. To reduce these reflections, set the flash to W (Off). Basic Photography and Playback: Auto Mode The Flash Lamp The flash lamp indicates flash status when the shutter-release button is pressed halfway. · On: Flash will fire when picture is taken.

· Blinks: Flash charging. Wait a few seconds and try again. · Off: Flash will not fire when picture is taken. If the battery is low, the monitor display will turn off, and remain off, until the flash is fully charged. C The Flash Mode Setting The default flash mode setting varies with shooting mode. · A (auto): U (auto) · C (scene): varies with the selected scene mode (A 34) · a (smile): fixed at W (off) when On is selected for Blink proof, U (auto) when Off is selected for Blink proof (A 46) The flash mode setting applied in A (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time A (auto) mode is selected. C Red-eye Reduction This camera uses advanced red-eye reduction ("In-Camera Red-Eye Fix"). The flash fires several times at low intensity (pre-flash) before the main flash, reducing "red eye." The camera then analyzes the picture; if red-eye is detected, the affected area will be processed to further reduce red-eye before the picture is saved. Note that because there is a slight lag between the shutter-release button being pressed and the picture being shot, this mode is not recommended when a quick shutter response is required.

The time before the next picture can be shot also increases slightly. Advanced red-eye reduction may not produce the desired results in all situations. In extremely rare instances, areas not subject to red-eye may be affected by advanced red-eye reduction processing; in these cases, choose another mode and try again. 29 Taking Pictures with the Self-timer The camera is equipped with a ten-second and two-second timer for self-portraits. This feature is useful for reducing the effects of camera shake that occurs when pressing the shutter-release button. When using the self-timer, use of a tripod is recommended. 1 Basic Photography and Playback: Auto Mode Press n (self-timer). The self-timer menu is displayed. 2 Use the multi selector to choose 10 s or 2 s and press the k button. 10 s (ten seconds): Suited for important occasions (such as weddings) 2 s (two seconds): Suited for preventing camera shake The mode selected for self-timer is displayed.

Self-timer If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. 3 Frame the picture and press the shutter-release button halfway. Focus and exposure will be set. 1/125 F3.1 4 Press the shutter-release button the rest of the way down.

The self-timer starts, and the number of seconds remaining before the shutter is released is displayed in the monitor. The self-timer lamp blinks while the timer is counting down. About one second before the shutter is released, the lamp remains lit and stops blinking. When the shutter is released, the self-timer will be set to k. 30 To stop the timer before a picture is taken, press the shutter-release button again.

Macro Mode Macro mode is used for taking pictures of objects as close as 10 cm (4 in.). Note that the flash may be unable to light entire subject at distances of less than 60 cm (2 ft.). 1 Press p (macro mode). The macro menu is displayed. Basic Photography and Playback: Auto Mode 2 Use the multi selector to choose ON and press the k button. The macro mode icon (F) is displayed. If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. Macro mode 3 Rotate the zoom control to frame the picture.

The camera can focus at a distance of 10 cm (4 in.) at the zoom position at which F glows green (the zoom indicator is positioned before K). C C Macro Mode In macro mode, the camera focuses continuously until the shutter-release button is pressed halfway to lock focus and exposure. The Macro Mode Setting The macro mode setting applied in A (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time A (auto) mode is selected. 31 Exposure Compensation Exposure compensation is used to alter exposure from the value suggested by the camera to make pictures brighter or darker. 1 Press o (exposure compensation). The exposure compensation guide is displayed. 2 Basic Photography and Playback: Auto Mode Use the multi selector to adjust exposure and press the k button. When the picture is too dark: adjust the exposure compensation to "+" side. When the picture is too bright: adjust the exposure compensation to "-" side.

Exposure compensation can be set to values between -2.0 and +2.0 EV. If a setting is not applied by pressing the k button within a few seconds, the selection will be cancelled. Exposure compensation 3 The setting is applied.

The value is displayed with the H icon in the monitor. 18 C D Exposure Compensation Value The exposure compensation value applied in A (auto) mode is stored in the camera's memory even after the camera is turned off, and reapplied the next time A (auto) mode is selected. Using Exposure Compensation 32 The camera tends to lower exposure when the frame is dominated by brightly lit objects and to increase exposure when the frame is mostly dark.



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Positive compensation may therefore be required to capture the brilliancy of very bright objects that fill the frame (for example, sunlit expanses of water, sand, or snow) or when the background is much brighter than the main subject. Negative compensation may be called for when large areas of the frame contain very dark objects (for example, a swath of dark green leaves) or when the background is much darker than the main subject.

Shooting Suited for the Scene Shooting in Scene Mode Camera settings are automatically optimized for the selected subject type. The following scene modes are available. x Scene auto selector b Portrait f Party/indoor k Close-up o Backlight g Beach/snow u Food c Landscape h Sunset l Museum d Sports i

Dusk/dawn e Night portrait j Night landscape m Fireworks show n Copy p Panorama assist E Voice recording\* \* See "Voice Recordings" (A 74) for details.

Setting the Scene Mode 1 Press the A button in shooting mode to display the shooting-mode selection menu and press the multi selector H or I to select a scene icon. The icon for the last scene mode selected is displayed. The default setting is x (Scene auto selector). Scene auto selector Shooting Suited for the Scene 2 Press the multi selector K and press H, I, J, or K to choose the desired scene, and then press the k button. Beach/snow 3 Frame the subject and shoot.

1/125 F3.1 D Image Mode When the d button is pressed in scene mode, Image mode (A 93) can be adjusted.

Change made to this setting applies to all shooting modes (except for movie menu). Image mode High (3648) Normal (3648) Normal (2592) Normal (2048) PC screen (1024) Exit 33 Shooting in Scene Mode Features x Scene auto selector By simply framing a picture, the camera automatically selects the optimum scene mode. See "Shooting in the Scene Mode Selected by the Camera (Scene Auto Selector)" (A 40) for more information. m 1 2 3 U1 n Off2 p Off3 o 0.02

The camera automatically selects the optimum flash mode setting for the scene mode it has selected. Can be changed to W. Other settings can be selected. Changed to On when the camera selects Close-up scene mode. b Portrait Use this mode for portraits in which the main subject stands out clearly. Portrait subjects exhibit smooth, natural-looking skin tones.

· The camera detects and focuses on a face looking toward the camera. See "Face Priority" (A 102) for more information. · If the camera detects a smiling face of the subject, the smile indicator increases or decreases. · If more than one face is recognized, focus will be on the face nearest to the camera. · If no faces are recognized, focus will be on the center of the screen.

· Digital zoom is not available. Smile indicator m V\* n Off\* p Off o 0.0\* Shooting Suited for the Scene 18 \* Other settings can be selected. O: For those scene modes with O, use of a tripod is recommended. Q: For those scene modes with Q, noise reduction is carried out automatically so the time taken to save an image will be longer than usual.

C 34 Icons Used for Descriptions The following icons are used for descriptions in this section: m, flash mode (A 28); n, self-timer (A 30); p, macro mode (A 31); o, exposure compensation (A 32). Shooting in Scene Mode c Landscape Use this mode for vivid landscapes and cityscapes. · Camera focuses at infinity.

The focus area or focus indicator (A 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus. m W n Off\* p Off o 0.0\* \* Other settings can be selected. d Sports Use this mode for dynamic action shots that freeze the action in a single shot and record motion in a series of pictures. · The camera focuses continuously until focus is locked by pressing the shutter-release button halfway.

· While the shutter-release button is held down, pictures are taken at rate of up to about 1.

2 frames per second (fps) when image mode is set to i Normal (3648). This rate is maintained for up to 6 pictures. · The maximum frame rate with continuous shooting may vary depending upon the current image mode setting and the memory card used. · Motion detection (A 120) is not activated. m W n Off p Off o

0.0\* \* Other settings can be selected. e Night portrait Shooting Suited for the Scene OQ Use this mode to achieve a natural balance between the main subject and background lighting in portraits taken at night. · The camera detects and focuses on a face looking toward the camera. See "Face Priority" (A 102) for more information. · If more than one face is recognized, focus will be on the face nearest to the camera.

· If no faces are recognized, focus will be on the center of the screen. · Digital zoom is not available. · Motion detection (A 120) is not activated. m 1 2 V1 n Off2 p Off o 0.02 Fill flash with slow sync and red-eye reduction.

Other settings can be selected. 35 Shooting in Scene Mode f Party/indoor Captures the effects of candlelight and other indoor background lighting. · Camera focuses on subject in the center of the frame. · As pictures are easily affected by camera shake, hold the camera steadily. Use of a tripod is recommended for dark locations.

m 1 2 V1 n Off2 p Off o 0.02 The flash may change to slow sync with red-eye reduction. Other settings can be selected. Other settings can be selected. g Beach/snow Shooting Suited for the Scene Captures the brightness of such subjects as snowfields, beaches, or sunlit expanses of water. · Camera focuses on subject in the center of the frame. m U\* n Off\* p Off o 0.0\* \* Other settings can be selected. h Sunset Preserves the deep hues seen in sunsets and sunrises. · Camera focuses on subject in the center of the frame.

O m W\* n Off\* p Off o 0.0\* \* Other settings can be selected. 36 O: For those scene modes with O, use of a tripod is recommended. Q: For those scene modes with Q, noise reduction is carried out automatically so the time taken to save an image will be longer than usual. Shooting in Scene Mode i Dusk/dawn OQ Preserves the colors seen in the weak natural light before sunrise or after sunset. · Camera focuses at infinity. The focus area or focus indicator (A 6) always glows green when the shutter-release button is pressed halfway. Note, however, that objects in the foreground may not always be in focus. · Motion detection (A 120) is not activated. m W n Off\* p Off o 0.

0\* \* Other settings can be selected. j Night landscape OQ Shooting Suited for the Scene Slow shutter speeds are used to produce stunning night landscapes. · Camera focuses at infinity. The focus area or focus indicator (A 6) always glows green when the shutter-release button is pressed halfway.



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