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You can read the recommendations in the user guide, the technical guide or the installation guide for NIKON 1 J3. You'll find the answers to all your questions on the NIKON 1 J3 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Nikon

DIGITAL CAMERA

1 J3

Reference Manual



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Manual abstract:

This icon marks cautions; information that should be read before This icon marks notes; information that should be read before 0 This icon marks references to other pages in this manual. The 1, 3, 4, and 2 symbols represent up, down, left, and right on the multi selector. Digitutor "Digitutor", a series of "watch and learn" manuals in movie form, is available from the following website: <http://www.Html> A For Your Safety Before using the camera for the first time, read the safety instructions in "For Your Safety" (0 x–xii). Getting the Most from Your Camera Table of Contents 0 0 0 ii iv 1 s Introduction z Auto Mode 6 Creative Mode b Best Moment Capture Mode 9 Motion Snapshot Mode y Recording and Viewing Movies t More on Photography I More on Playback Q Connections o The Playback Menu i The Shooting Menu (The Movie Menu) The Image Processing Menu g The Setup Menu n Technical Notes 0 21 0 31 0 45 0 53 0 57 0 67 0 79 0 91 0 107 0 117 0 139 0 143 0 157 0 165 i Getting the Most from Your Camera Take photos with the shutter-release button. Photos can be taken in any mode by pressing the shutter-release button. See page 6 for more information. Shutter-release button Shoot movies with the movie-record button. Movies can be recorded by pressing the movie-record button in auto (0 29), creative (0 44), and advanced movie (0 57) modes. Movie-record button Create short movies with music.

Install the supplied software (0 91), copy photos and movies to your computer using ViewNX 2 (0 95), and use Short Movie Creator to create short movies (0 98). view short movies in high definition. Transfer short movies to the camera (0 99) and use an HDMI cable to connect the camera to an HDTV (0 100). ii Accessories Expand your photographic horizons with a wide variety of interchangeable lenses and other accessories (0 165). Wireless mobile adapters Lenses Software for Nikon digital cameras (available on CD) Mount adapters Waterproof cases iii Table of Contents Getting the Most from Your Camera .

209 ix For Your Safety To prevent damage to your Nikon product or injury to yourself or to others, read the following safety precautions in their entirety before using this equipment. 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: A This icon marks warnings. To prevent possible injury, read all warnings before using this Nikon product. □□WARNING S A Keep the sun out of the frame.

Keep the A Do not disassemble. Touching the prod sun well out of the frame when uct's internal parts could result in shooting backlit subjects. sunlight injury. In the event of malfunction, focused into the camera when the the product should be repaired only sun is in or close to the frame could by a qualified technician. should the cause a fire. Product break open as the result of a fall or other accident, remove the bat A Turn off immediately in the event of maltery and/or AC adapter and then take function. Should you notice smoke or the product to a Nikon-authorized an unusual smell coming from the service center for inspection. Equipment or AC adapter (available separately), unplug the AC adapter A Keep out of reach of children. Failure to and remove the battery immediately, observe this precaution could result taking care to avoid burns. continued in injury.

In addition, note that small operation could result in injury. after parts constitute a choking hazard. Removing the battery, take the equip Should a child swallow any part of ment to a Nikon-authorized service this equipment, consult a physician center for inspection. immediately. A Do not use in the presence of flammable A Do not place the strap around the neck of gas. Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire. an infant or child. Placing the camera strap around the neck of an infant or child could result in strangulation. X A Do not remain in contact with the camera, battery, or charger for extended periods while the devices are on or in use. Parts of the device become hot.

Leaving the device in direct contact with the skin for extended periods may result in low-temperature burns. A Do not aim the flash at the operator of a motor vehicle. Failure to observe this precaution could result in accidents. a Observe caution when using a flash. □ Using the camera with the flash in close contact with the skin or other objects could cause burns.

□ Using a flash close to the subject's eyes could cause temporary visual impairment. Particular care should be observed when photographing infants, when the flash should be no less than one meter (39 in). Should the display break, care should be taken to avoid injury due to broken glass and to prevent the liquid crystal from the display touching the skin or entering the eyes or mouth. A Observe proper precautions when handling batteries. batteries may leak or explode if improperly handled.

Observe the following precautions when handling batteries for use in this product: • Use only batteries approved for use in this equipment. □ Do not short or disassemble the battery. □ Be sure the product is off before replacing the battery. If you are using an AC adapter, be sure it is unplugged. □ Do not attempt to insert the battery upside down or backwards. □ Do not expose the battery to flame or to excessive heat. • Do not immerse in or expose to water. □ Replace the terminal cover when transporting the battery. Do not transport or store the battery with metal objects such as necklaces or hairpins. □ Batteries are prone to leakage when fully discharged.

To avoid damage to the product, be sure to remove the batter y when no charge remains. □ When the battery is not in use, attach the terminal cover and store in a cool, dry place. □ The battery may be hot immediately after use or when the product has been used on battery power for an extended period. Before removing the battery turn the camera off and allow the battery to cool. □ Discontinue use immediately should you notice any changes in the battery, such as discoloration or deformation. Xi A Observe proper precautions when handling A Use appropriate cables. When connectthe charger: ing cables to the input and output • Keep dry. Failure to observe this jacks, use only the cables provided or precaution could result in fire or sold by Nikon for the purpose to electric shock. Maintain compliance with product • Do not short the charger terminals. regulations.

Failure to observe this precaution A CD-ROMs: CD-ROMs containing softcould result in overheating and ware or manuals should not be damage to the charger. played back on audio CD equipment. □ Dust on or near the metal parts of Playing CD-ROMs on an audio CD the plug should be removed with a player could cause hearing loss or dry cloth. Continued use could damage the equipment.



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result in fire.

□ Do not go near the charger during thunderstorms. Failure to observe this precaution could result in electric shock. □ Do not handle the plug or charger with wet hands. Failure to observe this precaution could result in electric shock. □ Do not use with travel converters or adapters designed to convert from one voltage to another or with DCto-AC inverters.

Failure to observe this precaution could damage the product or cause overheating or fire. **Xii Notices** • No part of the manuals included • Nikon will not be held liable for any with this product may be repro- damages resulting from the use of duced, transmitted, transcribed, this product. Stored in a retrieval system, or trans- • While every effort has been made to lated into any language in any form, ensure that the information in these by any means, without Nikon's prior manuals is accurate and complete, written permission. We would appreciate it were you to • Nikon reserves the right to change bring any errors or omissions to the the specifications of the hardware attention of the Nikon representaand software described in these tive in your area (address provided manuals at any time and without separately). prior notice. Notice for Customers in Canada CAUTION ATTENTION This Class B digital apparatus com- Cet appareil numérique de la classe B plies with Canadian ICES-003. This symbol indicates that electrical and electronic equipment is to be collected separately. This symbol on the battery indicates that the battery is to be collected separately. The following apply only to The following apply only to users in European countries: users in European countries: • All batteries, whether marked with • This product is designated for sepa- this symbol or not, are designated rate collection at an appropriate col- for separate collection at an approlection point. □ Separate collection and recycling • For more information, contact the helps conserve natural resources retailer or the local authorities in and prevent negative consequences charge of waste management.

For human health and the environment that might result from incorrect disposal. □ For more information, contact the retailer or the local authorities in charge of waste management. **Xiii Notice for Customers in the U. The Battery Charger IMPORTANT SAFETY INSTRUCTIONS—SAVE THESE INSTRUCTIONS DANGER—TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS** For connection to a supply not in the U. , use an attachment plug adapter of the proper configuration for the power outlet if needed. This power unit is intended to be correctly oriented in a vertical or floor mount position. 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 pro- CAUTIONS tection against harmful interference in Modifications a residential installation. This equip- The FCC requires the user be notified ment generates, uses, and can radiate that any changes or modifications radio frequency energy and, if not made to this device that are not installed and used in accordance with expressly approved by Nikon Corpothe instructions, may cause harmful ration may void the user's authority to interference to radio communications. operate the equipment.

However, there is no guarantee that interference will not occur in a particu- Interface Cables lar installation. If this equipment does Use the interface cables sold or procause harmful interference to radio or vided by Nikon for your equipment. Television reception, which can be Using other interface cables may determined by turning the equipment exceed the limits of Class B Part 15 of off and on, the user is encouraged to the FCC rules. Try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. □ Increase the separation between the equipment and receiver.

□ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. □ Consult the dealer or an experienced radio/television technician for help. Notice for Customers in the State of California WARNING: Handling the cord on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. Wash hands after handling. : 631-547-4200 **xiv Notice Concerning Prohibition of Copying or Reproduction** Note that simply being in possession of material that has been digitally copied or reproduced by means of a scanner, digital camera, or other device may be punishable by law.

□ Items prohibited by law from being copied • Cautions on certain copies and reproductions or reproduced Do not copy or reproduce paper The government has issued cautions money, coins, securities, govern- on copies or reproductions of securities ment bonds, or local government issued by private companies (shares, bonds, even if such copies or repro- bills, checks, gift certificates, etc.), commuter passes, or coupon tickets, except ductions are stamped "Sample. □ when a minimum of necessary copies The copying or reproduction of are to be provided for business use by a pap "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. 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. For contact information, visit <http://imaging.nikon.Com/> A Before Taking Important Pictures A Life-Long Learning xvii xviii Introduction s Before You Begin Before using your camera for the first time, confirm that the package contains the items listed in the User's Manual. S 1 Parts of the Camera Take a few moments to familiarize yourself with camera controls and displays. You may find it helpful to bookmark this section and refer to it as you read through the rest of the manual.

28, 85 7 Power connector cover for optional power connector. 169 8 Battery-chamber/memory card slot cover latch. A Holding the Camera When framing photographs, hold the camera as shown below. Hold the camera in your right hand. Keep your elbows propped lightly against your torso. Cradle the lens with your left hand. 72 20 "K" (appears when memory remains for over 1000 exposures) . 59, 63 * Available only when Detailed is selected for Display > Shooting in the setup menu (0 159). 4 A The Framing Grid A framing grid can be displayed by selecting On for Display > Grid display in the setup menu (0 159). a See also For information on adjusting monitor brightness , see page 159.



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S 5 The Mode Dial The camera offers a choice of the following shooting modes: s Mode dial z Motion Snapshot mode (0 53): Each time the shutter is released, the camera records a still image and about 1.6 s of movie footage. When the resulting "Motion Snapshot" is viewed on the camera, the movie will play back in slow motion over approximately 4 s, followed by the still image. U Best moment capture mode (0 45): Choose the moment to release the shutter as the scene plays back in slow motion (slow view), or let the camera choose the best shot based on composition and motion (Smart Photo Selector). C Auto mode (0 21): Let the camera pick the settings for photographs and movies.

W Creative mode (0 31): For photographs in which you want to use special effects, match settings to the scene, or control shutter speed and aperture. V Advanced movie mode (0 57): Choose the shutter speed and aperture for HD movies or shoot slow-motion movies. 6 The Multi Selector The multi selector and J button are used to adjust settings and navigate the camera menus. S A The Multi Selector Items can be highlighted by rotating the multi selector as shown at right. 7 The G Button Most shooting, playback, and setup options can be accessed from the camera menus.

Press the G button to display the menu selection dialog shown below, then use the multi selector to highlight the icon for the desired menu and press J. Shooting menu (0 117): Adjust settings for still photography. S G button Image processing menu (0 143): Adjust white balance, ISO sensitivity, Picture Controls, and other image processing settings for photographs and movies. setup menu (0 157): Adjust basic camera settings. History menu: Display recently used settings, or select Reset history > Yes to remove all items from the history menu. 8 □□ Using the Menus Use the multi selector (0 7) to navigate the playback, shooting, movie, image processing, setup, and history menus. multi selector 1 Select an item. S Press 1 or 3 to highlight menu items and press 2 to view options for the highlighted item. A Using the Menus The items listed may vary with camera settings. items displayed in gray are not currently available (0 176).

To exit the menus and return to shooting mode, press the shutter-release button halfway (0 23). To display another menu, press 4 in Step 1 and then press 1 or 3 to highlight the desired icon. Press 2 to position the cursor in the highlighted menu. A Choosing a Menu 9 & (Feature) Pressing 1 (&) gives access to the features listed below. Press 1 (&) to display options for the current mode, then rotate the multi selector or press 1 or 3 to highlight the desired option and press J to select. • Live image control (C auto mode; 0 25): Adjust exposure (Brightness control), contrast (Active D-Lighting), or depth of field (Background softening), or freeze or blur motion (Motion control). The effects can be previewed in the monitor. • Creative (w creative mode; 0 31): Choose from

Programmed auto (P), Shutter-priority auto (S), Aperture-priority auto (A), Manual (M), Night landscape (j), Night portrait (o), Backlighting (m), Easy panorama (p), Soft (q), Miniature effect (r), and Selective color (s). □ Best moment capture (u best moment capture mode; 0 45): Choose from Slow view and Smart Photo Selector (0 47) options. □ Advanced movie (v advanced movie mode; 0 57): Choose Slow motion (y) for slow-motion recording (0 62) or select Programmed auto (P), Shutter-priority auto (S), Aperture-priority auto (A), or Manual (M) for high-definition (HD) movie recording.

Attach the strap securely to the two camera eyelets. s 2 Charge the battery. Insert the battery into the charger q and plug the charger in w. an exhausted battery fully charges in about two hours. Unplug the charger and remove the battery when charging is complete.

Battery charging Charging complete A The Plug Adapter Depending on the country or region of purchase, a plug adapter may be supplied with the charger. The shape of the adapter varies with the country or region of purchase. If a plug adapter is supplied, raise the wall plug and connect the plug adapter as shown at right, making sure the plug is fully inserted. Attempting to forcibly remove the plug adapter could damage the product. 11 D The Battery and Charger s Read and follow the warnings and cautions on pages x–xii and 172–175 of this manual.

Do not use the battery at ambient temperatures below 0°C (32°F) or above 40°C (104°F); failure to observe this precaution could damage the battery or impair its performance. Capacity may be reduced and charging times may increase at battery temperatures from 0°C (32°F) to 10°C (50°F) and from 45°C (113°F) to 60°C (140°F); the battery will not charge if its temperature is below 0°C (32°F) or above 60°C (140°F). Charge the battery at ambient temperatures between 5°C (41°F) and 35°C (95°F). If the CHARGE lamp flashes quickly during charging, cease use immediately and take battery and charger to your retailer or a Nikon-authorized service representative. Do not move the charger or touch the battery during charging. Failure to observe this precaution could in very rare instances result in the charger showing that charging is complete when the battery is only partially charged. remove and reinsert the battery to begin charging again. Use the charger with compatible batteries only. unplug when not in use. 12 3 Insert the battery and a memory card.

Check to be sure the battery and card are in the correct orientation. Using the battery to keep the orange battery latch pressed to one side, slide the battery in until it latches, and then slide in the memory card until it clicks into place. S Rear 13 D Inserting and Removing Batteries and Memory Cards Always turn the camera off before inserting or removing batteries or memory cards. Note that the battery and memory cards may be hot after use; observe due caution when removing the battery and memory cards. If this is the first time the memory card will be used in the camera or if the card has been formatted in another device, select Format memory card in the setup menu and follow the on-screen instructions to format the card (0 158). Note that this permanently deletes any data the card may contain. Be sure to copy any photographs and other data you wish to keep to a computer before proceeding. Memory cards are equipped with a write protect switch to prevent accidental loss of data. When this switch is in the "lock" Write-protect switch position, the memory card can not be formatted and photos can not be deleted or recorded. To unlock the memory card, slide the switch to the "write" position.

A Formatting Memory Cards s A The Write Protect Switch 14 B 16G A Removing Batteries and Memory Cards After turning the camera off, confirm that the memory card access lamp (0 3) is off and open the battery-chamber/memory card slot cover.



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To remove the battery, first release it by pressing the orange battery latch in the direction shown by the arrow and then remove the battery by hand. To remove a memory card, first press the card in to eject it (q); the card can then be removed by hand (w). **SD Memory Cards** • The camera stores pictures on SD, SDHC, and SDXC memory cards (available separately; 0 167). □ Do not remove memory cards from the camera, turn the camera off, or remove or disconnect the power source during formatting or while data are being recorded, deleted, or copied to a computer.

Failure to observe these precautions could result in loss of data or in damage to the camera or card. □ Do not touch the card terminals with your fingers or metal objects. □ Do not bend, drop, or subject to strong physical shocks. □ Do not apply force to the card casing. Failure to observe this precaution could damage the card.

□ Do not expose to water, heat, high levels of humidity, or direct sunlight. □ Do not format memory cards in a computer. 15 4 Attach a lens. Be careful to prevent dust from entering the camera when the lens or body cap is removed. The lens generally used in this manual for illustrative purposes is a 1 NIKKOR VR 10–30mm f/3. See page 128 for information on vibration reduction (VR) and page 200 for information on removing lenses. **S Mounting mark (lens)** Mounting mark Keeping marks aligned, position lens on camera, then rotate until it clicks into place. (camera) Mounting mark (lens) A Lenses with Retractable Lens Barrel Buttons Lenses with retractable lens barrel buttons can not be used when retracted. To unlock and extend the lens, keep the retractable lens barrel button pressed (q) while rotating the zoom ring (w). The lens can be retracted and the zoom ring locked by pressing the retractable lens barrel button and rotating the ring in the opposite direction.

Be careful not to press the retractable lens barrel button while attaching or removing the lens. 16 5 Turn the camera on. Press the power switch to turn the camera on. The power lamp will briefly light green and the monitor will turn on. Be sure to remove the lens cap before shooting. **A Turning the Camera Off** A Auto Power Off's To turn the camera off, press the power switch again. The monitor will turn off. If no operations are performed for about a minute, the display will turn off and the power lamp start to flash (if desired, the delay before the display turns off automatically can be changed using the Auto power off option in the setup menu; 0 160). The camera can be reactivated by operating the shutter-release button. If no operations are performed for about three minutes after the display has turned off, the camera will turn off automatically.

Turn the camera off before attaching or removing lenses. Note that when the camera is turned off, the sensor protection barrier in the lens will close, protecting the camera image sensor. **A Attaching and Removing Lenses** If you are using a lens with a retractable lens barrel button (0 16), the camera will turn on automatically when the retractable lens barrel lock is released; in addition, if the view through the lens is displayed or the monitor is off, the camera will turn off when the lens barrel is locked (in the case of 1 NIKKOR VR 10–30mm f/3. 10 or later is required if locking the lens barrel is to turn the camera off when the monitor is off; for information on updating lens firmware, visit the Nikon website for your area). **A Lenses with Retractable Lens Barrel Buttons** 17 6 Choose a language and set the clock.

A language-selection dialog will be displayed the first time the camera is turned on. Use the multi selector and J button (0 7) to choose a language and set the camera clock. Photos can not be taken until you have set the time and date. Language and clock can be changed at any time using Language (0 162) and Time zone and date (0 162) options in setup menu. 18 A The Camera Clock The camera clock is less accurate than most watches and household clocks.

Check the clock regularly against more accurate time pieces and reset as necessary. The camera clock is powered by an independent, rechargeable power source, which is charged as necessary when the main battery is installed or the camera is powered by an optional EP-5C power connector and EH-5b AC adapter (0 169). Three days of charging will power the clock for about a month. If a message warning that the clock is not set is displayed when the camera is turned on, the clock battery is exhausted and the clock has been reset. Set the clock to the correct time and date. **S 19 7 Check the battery level and memory card capacity.** Check the battery level and number Battery level of exposures remaining in the monitor. Ready fully-charged battery or H prepare to charge battery. Display s Exposures remaining □□ Number of Exposures Remaining The monitor shows the number of pictures that can be stored on the memory card at current settings (values over 1000 are rounded down to the nearest hundred; e. g.

, values between 1200 and 1299 are shown as 1. 2 k). If a warning is displayed stating that there is not enough memory for additional images, insert another memory card (0 13) or delete some photos (0 85). 20 Auto z Mode Shoot photographs and movies. The camera automatically adjusts settings to suit the subject. Hold the camera securely with both hands, being careful not to obstruct the lens, AF-assist illuminator, or microphone. Rotate the camera as shown at lower right when taking pictures in “tall” (portrait) orientation. 3 Frame the photograph. Position your subject in the center of the frame. If the subject is poorly lit, the flash may pop up (0 72) and the AF-assist illuminator (0 136) may light to assist the focus operation.

If the camera is able to focus, the selected Focus area focus area will be highlighted in green and a beep will sound (a beep may not sound if the subject is moving). If the camera is unable to focus, the focus area will be displayed in red. Smoothly press the shutter-release button the rest of the way down to release the shutter and record the photograph. The memory card access lamp will light and the photograph will be displayed in the monitor for a few seconds (the photo will automatically clear from the display when the shutter-release button is pressed halfway). Do not eject the memory card or remove or disconnect the power source until the lamp has gone out and recording is complete.

memory card access lamp 22 A The Shutter-Release Button The camera has a two-stage shutter-release button. The camera focuses when the shutter-release button is pressed halfway. To take the photograph, press the shutter-release button the rest of the way down. Focus: Press halfway Shoot: Press the rest of the way down A Taking Several Photographs in Succession If Off is selected for Image review in the playback menu (0 110), you can take additional photographs without refocusing by keeping the shutter-release button pressed halfway between shots.



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Z A Automatic Scene Selection In auto mode, the camera automatically analyzes the subject and selects the appropriate scene. The selected scene is shown in the monitor. E Close up: Subjects close to the camera. g Night landscape: Poorly-lit landscapes and cityscapes. Z Auto: Subjects that do not fall into the categories listed above. 23 A Using a Zoom Lens Use the zoom ring to zoom in on the subject so that it fills a larger area of the frame, or zoom out to increase the area visible in the final photograph (select longer focal lengths on the lens focal length scale to zoom in, shorter focal lengths to zoom out). Zoom in Zoom out z Zoom ring If you are using an optional lens with a power drive zoom switch, select T to zoom in and W to zoom out. The speed with which the camera zooms in and out varies with how far you slide the switch. The zoom position is shown by the zoom guide in the display. zoom guide A Face Priority The camera detects and focuses on portrait subjects (face priority). A double yellow border will be displayed if a portrait subject is detected facing the camera (if multiple faces, up to a maximum of five, are detected, the camera will select the closest subject).

Press the shutter-release button halfway to focus on the subject in the double yellow border. The border will clear from the display if the camera can no longer detect the subject (because, for example, the subject has looked away). A Available Settings A See Also For information on the options available in auto mode, see page 176. See page 160 for information on silencing the beep that sounds when the camera focuses or the shutter is released. 24 □□ Live Image Control Live image controls let you preview how changes to each control will affect the final photograph. To choose a live image control for auto mode, press I (&), use the multi selector to highlight a control, and press J to view the effect. Rotate the multi selector to choose a setting and press J to select. Increase effect Active D-Lighting: High Active D-Lighting: Low Reduce effect Sharpen background Background softening: Soften background details to make your subject stand out, or bring both background and foreground into focus. Soften background Background sharp Background softened 25 Motion control: Suggest motion by blurring moving objects, or "freeze" motion to capture moving objects clearly. freeze motion Blur motion z Freeze motion Blur motion Brighter Brightness control: Make pictures brighter or darker.

Brighter Darker Darker D Live Image Control Continuous shooting is not available (0 67) and the built-in flash can not be used when live image control is in effect. pressing the movie-record button cancels live image control. 26 Viewing Photographs Press K to display your most recent photograph full frame in the monitor (fullframe playback). K button z Press 4 or 2 or rotate the multi selector to view additional pictures. To end playback and return to shooting mode, press the shutter-release button halfway.

A See Also For information on toggling photo info on or off, see page 160. See page 82 for information on viewing multiple images. For information on zooming in on the center of the current image, see page 84. See page 87 for information on slide shows. 27 Deleting Pictures To delete the current picture, press O.

Note that once deleted, pictures can not be recovered. Display the photograph you wish to delete as described on the preceding page. Press O again to delete the picture and return to playback, or press K to exit without deleting the picture. A Deleting Multiple Pictures The Delete option in the playback menu (0 85) can be used to delete all or selected pictures. 28 Recording Movies in Auto Mode In auto mode, the movie-record button can be used to shoot HD movies with sound at an aspect ratio of 16 : 9 (the movie crop is shown in the display). press the movie-record button to start and stop recording. Movie-record button A Taking Photographs During Recording Photographs can be taken at any time during recording by pressing the shutter-release button all the way down. Movie recording is not interrupted. See page 65 for information on viewing movies. Z A See Also 29 z 30 Creative 6 Mode Choose creative mode when to take photos using special effects, match settings to the scene, or control shutter speed and aperture.

Press I (&) and highlight a scene using the multi selector (0 32). press J to select the highlighted scene. Your selection is indicated by an icon in the display. 31 Choosing a Scene Creative mode offers a choice of the following scenes: Description The camera sets shutter speed and aperture for optimal exposure (0 34). Recommended for snapshots Programmed auto (P) and in other situations in which there is little time to adjust camera settings. You choose the shutter speed; the camera selects an Shutter-priority auto aperture for best results (0 35). use to freeze or blur (S) motion. You choose the aperture; the camera selects a shutAperture-priority ter speed for best results (0 36). Use to blur the auto (A) background or bring both foreground and background into focus. You control both shutter speed and aperture (0 37).

Manual (M) Choose a shutter speed of "Bulb" for long time-exposures (0 38). Each time the shutter-release button is fully pressed, the camera takes a series of shots and combines them to capture low lighting in night scenes; during processing, a message is displayed and no pictures can be taken. The flash does not fire and the edges of Night landscape (j) photos are cropped out. Note that the desired results may not be obtained if the camera or subject moves during shooting; if the camera is unable to combine the images, a warning will be displayed and only one picture will be taken. Option 6 32 Description Each time the shutter-release button is fully pressed, the camera takes a series of shots, some with the flash and some without, and combines them to capture background lighting in portraits taken at night or under low light; during processing, a message is displayed and no pictures can be taken.

Note that Night portrait (o) the edges of photos are cropped out and that the desired results may not be obtained if the camera or subject moves during shooting; if the camera is unable to combine the images, a warning will be displayed and the camera will take a single picture using the flash. backlighting (m) Photograph backlit subjects (0 40). Shoot panoramas for later viewing on the camera Easy panorama (p) (0 41). Shoot photographs with a soft filter effect. To choose the amount of softening, press J when the view Soft (q) through the lens is displayed, highlight an option using the multi selector, and press J to select.

The top and bottom of each photo is blurred so that the subject appears to have been a diorama photo Miniature effect (r) graphed at short range. Works best when shooting from a high vantage point. Take photos in which only a selected hue appears in color.



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To choose the hue, Selective color (s) press J when the view through the lens is displayed and use the multi selector and J button. Option 6 A Available Settings For information on the options available in creative mode, see page 178. 33 Taking Photos in P, S, A, and M Modes P, S, A, and M modes offer varying degrees of control over shutter speed and aperture. Choose a mode and adjust settings according to your creative intent. P Programmed Auto In this mode, the camera automatically adjusts shutter speed and aperture for optimal exposure in most situations. This mode is recommended for snapshots and other situations in which you want to leave the camera in charge of shutter speed and aperture. □□ Choosing a Combination of Shutter Speed and Aperture Although the shutter speed and aperture chosen by the camera will produce optimal results, you can also choose from other combinations that will produce the same exposure (“flexible program”).

Rotate the multi selector clockwise for large apertures (low f-numbers) that blur background details or fast shutter speeds that “freeze” motion. Rotate the multi selector counterclockwise for small apertures (high f-numbers) that increase depth of field or slow shutter speeds that blur motion. u is displayed while flexible program is in effect. 6 A Restoring Default Shutter Speed and Aperture Settings To restore default shutter speed and aperture settings, rotate the multi selector until U is no longer displayed or turn the camera off. The default shutter speed and aperture is automatically restored when the camera enters standby mode. 34 S Shutter-Priority Auto In shutter-priority auto, you choose the shutter speed while the camera automatically selects the aperture that will produce the optimal exposure. Use slow shutter speeds to suggest motion by blurring moving subjects, fast shutter speeds to “freeze” motion. Fast shutter speed (1/1600 s) Slow shutter speed (1 s) 6 □□ Choosing a Shutter Speed Rotate the multi selector to choose from shutter speeds between 30 s and 1/16,000 s. Rotate the selector clockwise for faster shutter speeds, counterclockwise for slower shutter speeds. A Continuous Shooting The selected shutter speed may change when continuous shooting (0 67) is in effect.

35 A Aperture-Priority Auto In aperture-priority auto, you choose the aperture while the camera automatically selects the shutter speed that will produce the optimal exposure. Large apertures (low f-numbers) reduce depth of field, blurring objects behind and in front of the main subject. Small apertures (high f-numbers) increase depth of field, bringing out details in the background and foreground. Short field depths are generally used in portraits to blur background details, long field depths in landscape photographs to bring the foreground and background into focus. 6 Large aperture (f/5.

6) Small aperture (f/16) □□ Choosing an Aperture Rotate the multi selector counterclockwise for larger apertures (lower f-numbers), clockwise for smaller apertures (higher f-numbers). The minimum and maximum values depend on the lens currently in use. 36 M Manual In manual mode, you control both shutter speed and aperture. □□ Choosing Shutter Speed and Aperture Adjust shutter speed and aperture with reference to the exposure indicator (see below). Press 2 to highlight shutter speed or aperture and rotate the multi selector to choose a value, then repeat for the remaining item.

Rotate the selector clockwise for faster shutter speeds or smaller apertures (higher f-numbers), counterclockwise for slower shutter speeds and larger apertures (lower f-numbers). Shutter speeds can be set to values as fast as 1/16,000 s or as slow as 30 s, or to “Bulb” to hold the shutter open indefinitely for a long time-exposure (0 38). aperture can be set to values Press 2 to highlight aperture. Between the minimum and maximum for the lens.

aperture 6 Press 2 to highlight shutter speed. A Continuous Shooting The selected shutter speed may change when continuous shooting (0 67) is in effect. 37 A The Exposure Indicator When shutter speeds other than “Bulb” are selected, the exposure indicator shows whether the photograph would be under- or overexposed at current settings. Optimal exposure Underexposed by 1/ EV 3 Overexposed by over 2 EV 6 □□ Long Time-Exposures (M Mode Only) Select a shutter speed of “Bulb” for long time-exposures of moving lights, the stars, night scenery, or fireworks. The shutter remains open while the shutter-release button is held down. Mount the camera on a tripod or place it on a stable, level surface.

To prevent loss of power before the exposure is complete, use a fully charged EN-EL20 battery or an optional EH-5b AC adapter and EP-5C power connector. Note that noise (bright spots, randomly-spaced bright pixels, or fog) may be present in long exposures; before shooting, choose On for Long exposure NR in the shooting menu (0 128). 38 2 Choose a shutter speed of “Bulb”. Press 2 to highlight shutter speed and rotate the multi selector counterclockwise to select “Bulb”. 3 Open the shutter. 6 After focusing, press the shutter-release button all the way down. Keep the shutter-release button pressed until the exposure is complete. Take your finger off the shutter-release button. 4 Close the shutter. Shooting ends automatically after about two minutes.

Note that some time may be required to record long exposures. 39 Backlighting The method used to capture details in shaded areas of back-lit subjects depends on the option selected for HDR in the shooting menu (0 117). Details in highlights and shadows are preserved using HDR (high dynamic range); Z appears in the display. Each time the shutter-release button is fully pressed, the camera takes two shots in quick succession and combines them to preserve details in highlights and shadows in high-contrast scenes; the built-in flash does not fire. While the shots are combined, a message will be displayed and the shutter release will be disabled.

The final photograph will be On displayed when processing is complete. 6 + First exposure Second exposure Combined HDR (darker) (brighter) image The flash fires to “fill in” (illuminate) shadows in back-lit subjects. Off Only one shot is taken when the shutter-release button is fully pressed, and the flash fires with each shot. d Framing HDR Photographs The edges of the image will be cropped out. The desired results may not be achieved if the camera or subject moves during shooting.

Depending on the scene, shading may be uneven and shadows may appear around bright objects or halos around dark objects. If the camera is unable to successfully combine the two images, a single image will be recorded at normal exposure and Active D-Lighting (0 127) will be applied. 40 Easy Panorama Follow the steps below to shoot panoramas. During shooting, the camera focuses using auto-area AF (0 134); face detection (0 24) is not available.



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Exposure compensation (0 71) can be used, but the built-in flash will not fire. 1 Set focus and exposure. Frame the start of the panorama and press the shutter-release button halfway. guides will appear in the display. Press the shutter-release button the rest of the way down and then lift your finger from the button. A, c, d, and b icons will appear in the display to indicate the possible pan directions.

Slowly pan the camera up, down, left, Progress indicator or right as shown below. Shooting will start when the camera detects the pan direction and a progress indicator will appear in the display. Shooting ends automatically when the end of the panorama is reached. 41 An example of how to pan the camera is shown below. Without changing your position, pan the camera in a steady curve either horizontally or vertically. Time the pan according to the option selected for Image size in the shooting menu: about 15 seconds are needed to complete the pan when A Normal panorama is selected, about 30 seconds when B Wide panorama is selected. 6 A Panoramas High-distortion wide-angle lenses may fail to produce the desired results. An error message will be displayed if the camera is panned too quickly or unsteadily. The completed panorama will be slightly smaller than the area visible in the display during shooting. No panorama will be recorded if shooting ends before the halfway point; if shooting ends after the halfway point but before the panorama is complete, the unrecorded portion will be shown in gray.

42 □□ Viewing Panoramas Panoramas can be viewed by pressing 3 when a panorama is displayed full frame (0 27). The start of the panorama will be displayed with the smallest dimension filling the display and the camera will then scroll through the picture in the original pan direction. Navigation Guide window 6 The following operations can be performed: To Pause Play Advance/rewind Return to full-frame playback J Use Pause playback. Resume playback when the panorama is paused or during rewind/advance. press 4 to rewind , 2 to advance.

If playback is paused, the panorama rewinds or advances a segment at a time; keep the button pressed for continuous rewind or advance. /K Press 1 or K to exit to full-frame playback. Description 43 Recording Movies in Creative Mode In creative mode, the movie-record button can be used to shoot HD movies with sound at an aspect ratio of 16 : 9 (the corners of the movie crop are shown in the display). press the movie-record button to start and stop recording. Note that regardless of the mode selected, movies are recorded using programmed auto exposure; to adjust exposure when shooting movies, select advanced movie mode (0 57).

Movie-record button 6 Movie crop A Taking Photographs During Recording Photographs can be taken at any time during recording by pressing the shutter-release button all the way down. Movie recording is not interrupted. See page 65 for information on viewing movies. a See Also 44 Best b Moment Capture Mode This mode is ideal for fast-changing , hard-to-capture subjects. Choose when to release the shutter as the scene plays back in slow motion (slow view), or let the camera choose the best shot based on composition and motion (Smart Photo Selector; 0 47). Slow View In this mode, the camera captures a short sequence of still images and plays them back in slow motion so that you can choose the precise moment for a photograph. While the shutter-release button is pressed halfway, the camera records up to 20 frames over about 1. 3 s and plays them back in a continuous slow-motion loop. When the frame you want to keep is displayed, press the shutter-release button the rest of the way down to record the current frame and discard the remaining images. To use slow view, select Slow view from the 1 (&) button menu in best moment capture mode.

Compose the photograph with your subject in the center of the frame. 3 Press the shutter-release button halfway. The camera will focus (0 22) and then, over a span of about 1. 3 s, record 20 frames to a temporary memory buffer. b 4 View the buffer contents. Keep the shutter-release button Progress indicator pressed halfway to play the frames in the buffer back in a continuous loop about 6. 5 s long. The position of the current frame is shown by a progress indicator. 5 Record the desired frame. Press the shutter-release button all the way down to record the current frame and discard the remaining images; the selected frame will be displayed for a few seconds when recording is complete.

To exit without recording a photograph, release the button without pressing it all the way down. A Viewing and Deleting Photos Taken in Slow View Photos taken in slow view can be viewed as described on page 27 or deleted as described on page 28. 46 Smart Photo Selector Choose Smart Photo Selector mode to let the camera help you take photos that capture a fleeting expression on the face of a portrait subject or other hard-to-time shots such as group photos in party scenes. Each time the shutter is released, the camera automatically selects the best shot and a number of best shot candidates based on composition and motion. To use the Smart Photo Selector, select Smart Photo Selector from the 1 (&) button menu in best moment capture mode.

If Slow view is selected, choose Smart Photo Selector. 47 2 Frame the photograph. Compose the photograph with your subject in the center of the frame. An icon will be displayed as the camera begins recording images to the memory buffer. The camera continuously adjusts focus to account for changes in the distance to the subject while the shutter-release button is pressed halfway.

Smoothly press the shutter-release button the rest of the way down. The camera will compare shots recorded to the buffer both before and after the shutter-release button was pressed all the way down, and select five to copy to the memory card. Note that some time may be required. The best picture is displayed in the monitor when recording is complete. 4 Shoot. 48 A Buffering Buffering begins when the shutter-release button is pressed halfway and ends after about 90 seconds or when the shutter-release button is pressed all the way down. Shutter-release button pressed halfway to focus Buffering Shutter-release button pressed all the way down Shooting ends D Smart Photo Selector Files Do not delete the "NCSPSLST. LST" file from the "NCFL" folder on the memory card or change the file names of images taken with the Smart Photo Selector. The camera will no longer recognize the affected files as Smart Photo Selector images and will instead handle them as independent photographs. For information on the options available in best moment capture mode, see page 176.

The camera automatically chooses a scene mode appropriate to the subject. Movies can not be recorded, and pressing the movie-record button has no effect. The flash can not be used. Use the Number of shots saved option in the shooting menu to choose the number of shots selected by the Smart Photo Selector (0 123).



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B A Available Settings A Best Moment Capture Mode A See Also 49 Viewing Photos Taken with the Smart Photo Selector Press K and use the multi selector to display photographs taken with the Smart Photo Selector (0 27; pictures taken with the Smart Photo Selector are indicated by a y icon). Of the photographs recorded by the Smart Photo Selector, only the best shot will be displayed (when you press the multi selector right to view the next picture, the camera will skip over the best shot candidates, with the result that the next picture displayed will not have a file number that immediately follows that of the current picture). To end playback and return to shooting mode, press the shutter-release button halfway. K button b Choosing the Best Shot When a photograph taken with the Smart Photo Selector is displayed, you can choose the best shot by pressing 3. Press 4 or 2 to view the other pictures in the sequence and press J to select the current picture as the best shot. to return to normal playback , press D.

50 Deleting Pictures Pressing O when a picture taken with the Smart Photo Selector is selected displays a confirmation dialog; press O again to delete the best shot and the best shot candidates, or press K to exit without deleting the pictures. Note that once deleted, pictures can not be recovered. O button b Pressing the O button in the best shot selection dialog displays the following options; highlight an option using the multi selector and press J to select. □ This image: Delete the current photo (note that the picture currently selected as the best shot can not be deleted). □ All except best shot: Delete the best shot candidates, but not picture currently selected as the best shot.

a confirmation dialog will be displayed; to delete the selected image or images , highlight Yes and press J. A Deleting Individual Photographs 51 b 52 Motion 9 Snapshot Mode Record brief movie vignettes with your photographs. Each time the shutter is released, the camera records a still image and about 1. 6 s of movie footage. When the resulting "Motion Snapshot" is viewed on the camera, the movie will play back in slow motion over approximately 4 s, followed by the still image; playback is accompanied by a background track about 10 s long.

Compose the photograph with your subject in the center of the frame. A Available Settings For information on the options available in Motion Snapshot mode, see page 176. An icon will be displayed as the camera begins recording footage to the memory buffer. 4 Shoot. 9 Smoothly press the shutter-release button the rest of the way down. The camera will record a photograph, together with about 1. 6 s of movie footage beginning before and ending after the time the shutter-release button was pressed all the way down. Note that some time may be required. When recording is complete, the photograph will be displayed for a few seconds. A Buffering Buffering begins when the shutter-release button is pressed halfway and ends after about 90 seconds or when the shutter-release button is pressed all the way down.

Shutter-release button pressed halfway to focus Buffering Shutter-release button pressed all the way down Shooting ends 54 □□ Choosing a Theme To choose the background music for the movie, press 1 (&) and use the multi selector and J button to select from Beauty, Waves, Relaxation, and Tenderness. To play the background music for the highlighted theme, press 2 and rotate the multi selector to adjust volume. a Motion Snapshot Mode A See Also Live audio is not recorded. Movies can not be recorded using the movie-record button and the flash can not be used. See page 123 for information on choosing what portions of the buffer are included in the movie footage. For information on saving Motion Snapshots in a format that can be viewed in most movie playback software, see page 124. 9 55 Viewing Motion Snapshots Press K and use the multi selector to display a Motion Snapshot (0 27; Motion Snapshots are indicated by a z icon). Pressing 3 when a Motion Snapshot is displayed plays back the movie portion in slow motion over a period of about 4 s, followed by the photo; the background track plays for about 10 s (to choose a new background track, use the Change theme option in the playback menu; 0 115). To end playback and return to shooting mode, press the shutter-release button halfway. k button 9 Deleting Motion Snapshots To delete the current Motion Snapshot , press O.

A confirmation dialog will be displayed; press O again to delete the photo and movie and return to playback, or press K to exit without deleting the file. Note that once deleted, Motion Snapshots can not be recovered. O button 56 Recording y and Viewing Movies The camera can record high-definition (HD) movies with an aspect ratio of 16 : 9 and slow-motion movies with an aspect ratio of 8 : 3. Movies can be recorded by pressing the movie-record button in the following shooting modes: Mode C Auto mode (0 29) Movie type Movie-record button w Creative mode (0 44) Programmed auto (P) HD (16 : 9) Shutterpriority auto (S) v Advanced Aperturemovie priority auto mode (0 58, (A) 62) Manual (M) Slow Slow motion motion (y) (8 : 3) Description The camera automatically optimizes settings for the current subject or scene. shoot movies.

Regardless of the scene selected with the camera, movies are recorded in mode P; shutter speed and aperture are controlled by the camera. Shutter speed and aperture are controlled by the camera. You choose the shutter speed; the camera automatically adjusts aperture for optimal exposure (0 35). You choose the aperture; the camera automatically adjusts shutter speed for optimal exposure (0 36). You choose the shutter speed and aperture (0 37).

record silent slow-motion movies. Movies are recorded at 400 fps and play back at about 30 fps (0 62). Y A Available Settings For information on the options available in advanced movie mode, see page 176. Rotate the mode dial to choose a shooting mode. Note that best moment capture and Motion Snapshot modes do not support HD movie recording. For greater control of exposure, select v (advanced movie mode), press 1 (&), and choose from P Programmed auto, S Shutter-priority auto, A Aperture-priority auto, and M Manual (0 57). y 2 Frame the opening shot. Frame the opening shot with your subject in the center of the display. A The 0 Icon A 0 icon indicates that movies can not be recorded. A recording indicator, the time elapsed, and the time available are displayed while recording is in progress.

A Audio Recording Movie-record button Be careful not to cover the microphone and note that the built-in microphone Recording indicator/ may record sounds made by the camera Time elapsed or lens. By default, the camera focuses continuously; to avoid recording focus noise, select Single AF for Focus mode in the movie menu (0 129). The Movie sound options item in the movie menu offers microphone sensitivity and wind noise options (0 142). time available y 4 End recording.



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Press the movie-record button again to end recording. Recording will end automatically when the maximum length is reached (0 141), the memory card is full, another mode is selected, the lens is removed, or the camera becomes hot (0 xvi). A Maximum Length Movie-record button At default settings, HD movies can be up to 4 GB in size and 20 minutes in length (for more information, see page 141); note that depending on memory card write speed, shooting may end before this length is reached (0 167). 59 A The Movie Crop The movie crop is shown in the monitor. HD crop (16 : 9) Slow-motion movie crop (8 : 3) If Single AF is selected for Focus mode in the movie menu for advanced movie mode, focus will lock while the shutter-release button is pressed halfway (0 135). A Focus Lock y 60 □□ Taking Photographs During HD Movie Recording Press the shutter-release button all the way down to take a photograph without interrupting HD movie recording.

Photographs taken during movie recording have an aspect ratio of 3 : 2. A Taking Photographs During Movie Recording D Recording Movies Up to 20 photographs can be taken with each movie shot. Please note that photographs can not be taken with slow-motion movies. Flicker, banding, or distortion may be visible in the display and in the final movie under fluorescent, mercury vapor, or sodium lamps or if the camera is panned horizontally or an object moves at high speed through frame (flicker and banding can be reduced in HD movies by choosing a Flicker reduction option that matches the frequency of the local AC power supply as described on page 161, but note that the slowest shutter speed available is 1/ s at 50 Hz, 1/ s at 60 Hz; flicker 100 60 reduction is not available with slow-motion movies). Bright light sources may leave after-images when the camera is panned.

Jagged edges, color fringing, moiré, and bright spots may also appear. When recording movies, avoid pointing the camera at the sun or other strong light sources. Failure to observe this precaution could result in damage to the camera's internal circuitry. Y A See Also Frame size and frame rate options are described on page 141. 61 Recording Slow-Motion Movies Silent slow-motion movies with an aspect ratio of 8 : 3 can be recorded by selecting y Slow motion from the 1 (&) button menu in advanced movie mode.

Slow-motion movies are recorded at 400 fps and play back at about 30 fps. If an option other than y Slow motion is selected, choose y Slow motion. y 2 Frame the opening shot. Frame the opening shot with your subject in the center of the display. A recording indicator, the time elapsed, and the time available are displayed while recording is in progress. The camera focuses on the subject at the center of the display; face detection (0 24) is not Movie-record button available and focus and exposure can Recording indicator/ not be adjusted. time elapsed y Time available 63 5 End recording. Press the movie-record button again to end recording. Recording will end automatically when the maximum length is reached, the memory card is full, another mode is selected, the lens is removed, or the camera becomes hot (0 xvi). Movie-record button A Maximum Length Up to 3 seconds of footage can be recorded; note that depending on memory card write speed, shooting may end before this length is reached (0 167).

I icon/Length Movie playback indicator/ Current position/total length Guide Volume The following operations can be performed: To Pause Play J Use Pause playback. Resume playback when the movie is paused or during rewind/advance. press 4 to rewind, 2 to advance. Speed increases with each press, from 2× to 4× to 8× to 16×. If playback is paused, the movie rewinds or advances one frame at a time; keep the button pressed for continuous rewind or advance. 65 Deleting Movies To delete the current movie, press O. A confirmation dialog will be displayed; press O again to delete the movie and return to playback, or press K to exit without deleting the movie. Note that once deleted, movies can not be recovered. A See Also O button See page 114 for information on trimming unwanted footage from movies. Y 66 More t on Photography 8 5 fps 15 fps 30 fps 60 fps E 10 s E5s E2s Single-Frame, Continuous, and Self-Timer Modes Pressing 4 (C) on the multi selector displays a choice of shutterrelease modes for still photography: The camera takes pictures one at a time.

Continuous: The camera records photographs at about 5, 15, 30, or 60 fps while the shutter-release button is pressed all the way down. The shutter is released about 10, 5, or 2 seconds after the shutter-release button is pressed all the way down. Choose 10 s or 5 s for self-portraits, 2 s to reduce camera shake. Continuous Mode To take pictures in continuous mode: 1 Display release mode options. The camera takes pictures while the shutter-release button is held all the way down.

67 D Continuous Mode The maximum number of shots that can be taken in a single burst varies with the release mode. At frame rates of 30 and 60 fps, the maximum number of shots that can be taken in a single burst is 20. The built-in flash can be used when 5 fps is selected, but only one picture will be taken each time the shutter-release button is pressed; at settings of 15, 30, and 60 fps, the built-in flash will not fire. While photographs are being recorded to the memory card, the memory card access lamp will light. Depending on shooting conditions and memory card write speed, recording may take some time.

If the battery is exhausted before all photographs are recorded, the shutter release will be disabled and the remaining images transferred to the memory card. Continuous shooting is not available in creative modes other than P, S, A, or M, in best moment capture, advanced movie, or Motion Snapshot mode, or when live image control is used in auto mode (0 25). A Buffer Size t The camera is equipped with a memory buffer for temporary storage, allowing shooting to continue while photographs are being saved to the memory card. Note that the frame rate will drop or shooting will pause when the buffer is full. The approximate number of images that can be stored in the memory buffer at current settings is displayed while the shutterrelease button is pressed halfway (this number is an approximation only and varies with shooting conditions; 0 181). The illustration shows the display when space remains in the buffer for about 41 pictures. 68 Self-Timer Modes The self-timer can be used to reduce camera shake or for selfportraits. Mount the camera on a tripod or place the camera on a stable, level surface. Press the shutter-release button halfway to focus, and then press the button the rest of the way down. the selftimer lamp will start to flash and a beep will begin to sound.

Two seconds before the photo is taken, the lamp will stop flashing and the beeping will become more rapid. 4 Frame the photograph and shoot. T 69 Note that the timer may not start or a photograph may not be taken if the camera is unable to focus or in other situations in which the shutter can not be released.



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