



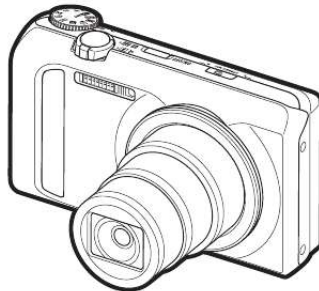
Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO EXILIM EX-ZR100. You'll find the answers to all your questions on the CASIO EXILIM EX-ZR100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CASIO EXILIM EX-ZR100
User guide CASIO EXILIM EX-ZR100
Operating instructions CASIO EXILIM EX-ZR100
Instructions for use CASIO EXILIM EX-ZR100
Instruction manual CASIO EXILIM EX-ZR100

CASIO
Digital Camera
EX-ZR100
User's Guide

E



Thank you for purchasing this CASIO product.
• Before using it, be sure to read the precautions contained in this User's Guide.
• Keep the User's Guide in a safe place for future reference.
• For the most up-to-date information about this product, visit the official EXILIM Website at <http://www.exilim.com/>

To go to "Getting the Most Out of Dynamic Photo" click here!

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Manual abstract:

Digital camera Rechargeable lithium ion battery (NP-130) Charger unit (BC-130L) To attach the strap to the camera Attach strap here. * The shape of the power cord plug varies according to country or geographic area. Power cord Strap USB cable AV cable CD-ROM Basic Reference 2 Read this first! · The contents of this manual are subject to change without notice. · The contents of this manual have been checked at each step of the production process. Feel free to contact us if you notice anything that is questionable, erroneous, etc. @@@@ is forbidden under copyright laws. · CASIO COMPUTER CO., LTD. @ · CASIO COMPUTER CO., LTD.

· CASIO COMPUTER CO., LTD. shall not be held liable for any damages or lost profits caused by loss of memory contents due to malfunction, repair, or any other reason. · Note that the example screens and product illustrations shown in this User's Guide may differ somewhat from the screens and configuration of the actual camera. LCD Panel The liquid crystal panel of the monitor screen uses high-precision technology that provides a pixel yield in excess of 99.

99%. This means that some very small number of pixels may not light or may remain lit at all times. This is due to the characteristics of the liquid crystal panel, and does not indicate malfunction. Take test shots Before shooting your final image, shoot a test shot to ensure that the camera is recording correctly. 3

Contents Unpacking .

.....

.....

.....

.....

.....

..... Read this first! ..

.....

.....

.....

.....

.....

.....

.... General Guide

.....

.....

.....

..... Monitor Screen Contents

.....

.....

.....

.....

.....

. 2 ... 3 ... 9 . . 11 Quick Start Basics 14 What is a digital camera? .

.....

.....

.....

.....

..... 14 What you can do with your CASIO camera ..

.....

.....

.....

.... 15 First, charge the battery prior to use..

.....

.....

.....

..... 16 To charge the battery

.....

.....

.....

.....

.....
.....
.....
... 25 Selecting an Auto Recording Mode ...
.....

.....
.....
.....
.. 25 To shoot a snapshot
.....

.....
.....
.....
.....
..... 26 Viewing Snapshots ...
.....
.....
.....

.....
.....
.....
.....
.. 28 Deleting Snapshots and Movies
.....
.....
.....

.....
.....
.....
..... 29 To delete a single file
.....
.....
.....

.....
.....
.....
.....
..... 29 To delete specific files
.....
.....
.....

.....
.....
.....
..... 30 To delete all files
.....
.....
.....

.....
.....
.....
.....
..... 30 Snapshot Shooting Precautions
.....
.....
.....

.....
.....
.....
..... 31 Auto Focus Restrictions .
.....
.....
.....
.....

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

... 70 To shoot with BEST SHOT ..

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

. 70 Creating Your Own BEST SHOT Setups

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

. 73 Shooting with High Speed Night Scene (High Speed Night Scene/High Speed Night Scene and Portrait) Shooting with High Speed Anti Shake .

..... (High Speed Anti Shake) Expanding the Zoom Range to Shoot Clearer Snapshots ...

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

. (Multi SR Zoom) Configuring the Camera to Help You Better Time Your Shots

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

..... (Lag Correction) Using the Situation-specific CS Scenes

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

.. Using the Situation-specific High Speed Movie Scenes

.....
... 74 ..

75 .. 76 .. 77 .. 79 .. 81 Advanced Settings 82 Using On-screen Menus ..

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

..... 82 REC Mode Settings ..

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

..... (REC) ..

. 84 Zooming with Super Resolution

.....
.....

(Zoom (SR)) ... Selecting a Focus Mode ..

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

. (Focus) ... Using the Self-timer .

.....
.....

.....
.....
... (Self-timer) ... Reducing the Effects of Camera and Subject Movement ...

 (Anti Shake) ... Specifying the Auto Focus Area

 (AF Area) .

 .. Using the Auto Focus Assist Light

 .(AF Assist Light) ... Shooting with Face Detection

 .(Face Detection) ... Shooting with Continuous Auto Focus .

 (Continuous AF) ... Changing the Continuous Shutter Mode .



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.....
.....
..... (Sharpness) ... Controlling Color Saturation ...
.....
.....
.....
..... (Saturation) ... Adjusting Image Contrast ...
.....
.....
.....
..... (Contrast) .
.. 96 96 97 97 98 98 98 98 98 Viewing Snapshots and Movies Viewing Snapshots ...
.....
.....
.....
.....
..... Viewing a Movie.
.....
.....
.....
.....
..... Viewing a Panorama Image.
.....
.....
.....
.....
.....
Viewing Continuous Shutter Images
.....
.....
..... 99 .
..... 99 . 100 .
101 Deleting Continuous Shutter Images
.....
.....
.....
.....
.....
..... 137 141 142 143 145 145 147 147 148 151 151 152 152 Using the Camera with a Macintosh .
.....
.....
.....
..... 148 Connecting the Camera to Your Computer and Saving Files .
.....
.....
... Transferring Images Automatically and Managing Them on Your Macintosh. . Playing a Movie.
.....
.....
.....
.....
.....
.....
..... Viewing User Documentation
.....

.....
.....
... 189 Number of Snapshots/Movie Recording Time ...
.....

.....
.....
. 191 Specifications. ...
.....
.....

..... 194 8 Contents General Guide The numbers in parentheses indicate the pages where each item is explained.

. Camera Front Back 1 2 3 4 5 6 7 9 bk bl bm bn bo bp bq 8 cl ck bt bs br bq[HDMI OUT] HDMI br[MENU] button (page 82) output (Mini) (page 109) 1 Mode dial (pages 25, 33) bkBack lamp (pages 23, 26, 43) 2 Zoom controller (pages 26, 45, 106) bl[r] (REC) button (pages 23, 25) 3 Shutter button (page 25) 4 Flash (page 43) bm[0] (Movie) button (page 61) 5 [ON/OFF] (Power) (page 23) bnStrap holes (page 2) 6 Front lamp boTerminal cover (pages 87, 90) (page 49) bs[p] (PLAY) button (pages 23, 28) 7 \bar{O} (Continuous Shutter) 8 Lens 9 Microphones (page 62) (pages 107, 109, 128, 138, 149) bp[USB/AV] port (pages 107, 128, 138, 149) bt[SET] button (page 36) ckControl button ([8] [2] [4] [6]) (pages 29, 36, 43, 82, 166) clMonitor screen (pages 11, 166) 9 Bottom cmBattery/memory card slots (pages 17, 21, 175, 177) crTripod hole Use this hole when attaching to a tripod. coSpeaker co cn . Charger Unit cm 12 1+7-Contacts 2[CHARGE] Lamp 3AC jack 3 10 Monitor Screen Contents The monitor screen uses various indicators, icons, and values to keep you informed of the camera's status. · The sample screens in this section are intended to show you the locations of all the indicators and figures that can appear on the monitor screen in various modes. They do not represent screens that actually appear on the camera. · Snapshot Recording (pages 61, 64)/ Recording speed (high speed movie) (page 64) brFocus frame (pages 26, 89) bsBattery level indicator (page 18) (page 49) btHistogram (page 166) 4 Self-timer mode (page 87) ckFocal distance (Converted to 35 mm film format.) (page 45) 5 Image deterioration indicator/ Zoom (SR) indicator (page 46) clAnti Shake (page 88) 6 Recording mode (page 25) cmFace Detection (page 90) 7Remaining snapshot memory capacity (pages 51, 191) 123456789 8Number of recordable CS images bk cm (pages 49, 51) bl 9Snapshot image size/Quality (pages 37, 96) cl bm bkISO sensitivity (page 40) ck bt blWhite balance setting (page 41) bn bmExposure compensation (page 42) bnFlash (page 43) boDate/Time (pages 19, 160) bs br bqbpbo bpTimestamp indicator (page 159) bqMovie quality (FHD/STD movie) 1 Focus mode (page 84) 2 Metering mode (page 97) 3 Continuous Shutter mode NOTE · The semi-transparent gray frame on the monitor screen indicates the area that is recorded when shooting a movie. The area within the frame is recorded for a movie. · If the current aperture, shutter speed, ISO sensitivity, or Auto Exposure is not correct, the setting will turn orange when you half-press the shutter button. 11 . Movie Recording 12 3 4 5 6 7 . Snapshot Viewing 1Recording mode (page 61) 2Audio recording disabled (page 64) 3Remaining movie memory capacity (page 61) 4Movie recording time (page 61) 5Movie recording in progress (page 61) 6 Movie quality (FHD/STD movie) (pages 61, 64)/ Recording speed (high speed movie) (page 64) 7Battery level indicator (page 18) 12 3 4 br bq bp bo bn bm bl bk 5 6 7 8 9 1File type 2Protect indicator (page 118) 3Snapshot image size (page 37) 4Folder name/file name (page 153) 5Snapshot image quality (page 96) 6ISO sensitivity (page 40) 7Aperture value 8Shutter speed 9Date/time (page 160) bkExposure compensation (page 42) blMetering mode (page 97) bmWhite balance setting (page 116) bnFlash (page 43) boBattery level indicator (page 18) bpContinuous Shutter mode (page 49) bqHistogram (page 166) brRecording mode (page 25) 12 . Movie Playback 12 3 4 5 6 7 9 . CS Image Viewing 8 1 2 1No audio data available 2File type 3Protect indicator (page 118) 4Folder name/file name (page 153) 5Movie recording time (page 99) 6Movie quality/speed (pages 61, 64, 64) 7YouTube (page 68) 8Date/time (page 160) 9Battery level indicator (page 18) 1Current image number/number of images in the group (page 101) 4 3 2CS group icon (page 101) 3Playback guide (page 101) 4CS speed (page 101) 13 Quick Start Basics What is a digital camera? A digital camera stores images on a memory card, so you can record and delete them a countless number of times. Record Delete Play You can use the images you record in a variety of different ways. Store images on your computer. Print images. Attach images to e-mail. 14 Quick Start Basics What you can do with your CASIO camera Your CASIO camera is packed with a powerful selection of features and functions to make recording of digital images easier, including the following four main functions. HDR Art An HDR Art feature combines different parts of a burst of images shot with different exposures into a final image and performs high-precision image analysis to produce final images that are true works of art.



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**See page 57 for more information. High Speed CS/Prerecord CS Now you can shoot up to 30 continuous high-resolution images at the amazing speed of 40 images per second (maximum). Prerecord CS pre-records images to ensure you are almost never too late with the shutter button. *See page 49 for more information. High Speed Movie Movies can be recorded at up to 1000 frames per second. This makes it possible to clearly view phenomena that are invisible to the human eye, in slow motion. *See page 64 for more information. FHD Movie Recording You can record movies in high-quality FHD.*

*(1920x1080 pixels 30 fps) *See page 64 for more information. 1920x1080 pixels B 15 Quick Start Basics First, charge the battery prior to use. Note that the battery of a newly purchased camera is not charged. Perform the steps under "To charge the battery" to bring the battery to a full charge. · Your camera requires a special CASIO rechargeable lithium ion battery (NP-130) for power. Never try to use any other type of battery. To charge the battery 1. Aligning the positive + and negative - terminals of the battery with those of the charger unit, load the battery into the charger unit. 2. Plug the charger unit into a household power outlet.*

About 240 minutes are required to reach full charge. The [CHARGE] lamp will go out when charging is complete. Unplug the power cord from the power outlet and then remove the battery from the charger. Lamp Status Lit Red Flashing Red Off Description Charging [CHARGE] lamp Abnormal ambient temperature, charger problem, or battery problem (page 175) Charging complete 16 Quick Start Basics · Other Charging Precautions · Use the special charger (BC-130L) to charge the special lithium ion battery (NP-130).

Never use any other type of charger device. Attempting to use a different charger can result in unexpected accident. · A battery that is still warm due to normal use may not charge fully. Give the battery time to cool before charging it. · A battery discharges slightly even when it is not loaded in the camera. Because of this, it is recommended that you charge the battery immediately before you need to use it. · Charging the camera's battery may cause interference with TV and radio reception. If this happens, plug the charger into an outlet that is further away from the TV or radio. · Actual charging time depends on current battery capacity and charging conditions. To load the battery 1. Open the battery cover. Slide the battery cover slider towards OPEN and then open it as indicated by the arrows in the illustration. 2. Load the battery. With the EXILIM logo on the battery facing downwards (in the direction of the lens), hold the stopper next to the battery in the direction indicated by the arrow as you slide the battery into the camera.

Press the battery in until the stopper secures it in place. Stopper Battery contacts EXILIM logo Front Back 17 Quick Start Basics 3. Close the battery cover.

*Close the battery cover and then shift the slider towards LOCK. · For information about how to replace the battery, see page 175. Checking Remaining Battery Power As battery power is consumed, a battery indicator on the monitor screen indicates remaining power as shown below. Remaining Power Battery Indicator Indicator Color Cyan High ** Amber ** Red Low ** Red indicates battery power is low. Charge the battery as soon as possible. Recording is not possible when is indicated. Charge the battery immediately.*

· The level shown by the battery indicator may change when you switch between the REC mode and PLAY mode. · Leaving the camera for about 30 days with no power supplied while the battery is dead will cause its date and time settings to be cleared. A message telling you to configure time and date settings will appear the next time you turn on the camera after restoring power. When this happens, configure date and time settings (page 160). · See page 196 for information about battery life and number of shots.

Battery Power Conservation Tips · When you do not need to use the flash, select ? (Flash Off) for the flash setting (page 43). · Enable the Auto Power Off and the Sleep features to protect against wasting battery power when you forget to turn off the camera (pages 161, 162). · Select "Off" for "Continuous AF" (page 91). · Avoid unnecessary optical zoom operations. 18 Quick Start Basics Configuring Basic Settings the First Time You Turn On the Camera The first time you load a battery into the camera, a screen appears for configuring the display language, date, and time settings.

Failure to set the date and time correctly will cause the wrong date and time data to be recorded with images. IMPORTANT! · A screen for language selection will not appear in step 2 of the procedure below if you purchased a camera intended for the Japanese market. To change the display language from Japanese in this case, use the procedure under "Specifying the Display Language (Language)" (page 161). Note that a version of this manual in the language you select may not be included with a camera intended for the Japanese market. · Camera models sold in certain geographic areas may not support display language selection. 1. 2. 3. Press [ON/OFF] (Power) to turn on the camera. Use [8], [2], [4], and [6] to select the language you want and then press [SET].

*[ON/OFF] (Power) [] [] [] [] [SET] [0] (Movie) Use [8] and [2] to select a date style and then press [SET]. Example: July 10, 2012 YY/MM/DD * 12/7/10 DD/MM/YY * 10/7/12 MM/DD/YY * 7/10/12 4. Set the date and the time. Use [4] and [6] to select the setting you want to change and then use [8] and [2] to change it. To switch between 12-hour and 24-hour format, press [0] (Movie). 5. After setting the date and time, use [4] and [6] to select "Apply" and then press [SET]. If you make a mistake configuring display language, date, or time settings with the above procedure, refer to the following pages for information about how to correct the settings. Display language: Page 161 Date and time: Page 160 19 Quick Start Basics NOTE · Each country controls its local time offset and the use of summer time, and so they are subject to change. · Removing the battery from the camera too soon after configuring time and date settings for the first time can cause the settings to be reset to their factory defaults.*

Do not remove the battery for at least 24 hours after configuring settings. Preparing a Memory Card Though the camera has built-in memory that can be used to store images and movies, you probably will want to purchase a commercially available memory card for greater capacity. The camera does not come with a memory card. Images recorded while a memory card is loaded are saved to the memory card.



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When no memory card is loaded, images are saved to built-in memory.

· For information about memory card capacities, see page 191. Supported Memory Cards SD Memory Card SDHC Memory Card SDXC Memory Card Use one of the above types of memory card. · Use only SD cards that are compliant with the SD Card Association specification. · This model does not support use of an Eye-Fi card. ·

Memory Card Handling Precautions Certain types of cards can slow down processing speeds, and even can make it impossible to store High Quality movies correctly. Also, use of certain types of memory cards slows down data transfer and increases the time it takes to record movie data, which can result in movie frames being dropped. The Y indicator on the monitor screen turns yellow to indicate that frames are being dropped. In order to avoid problems such as these, use of an Ultra High Speed Type SD memory card is recommended. Note, however that CASIO makes no guarantees about the operation of any Ultra High Speed Type SD memory card used with this camera. 20 Quick Start Basics To load a memory card 1. Press [ON/OFF] (Power) to turn off the camera and then open the battery cover. Slide the battery cover slider towards OPEN and then open it as indicated by the arrows in the illustration. 2. Load a memory card.

Positioning the memory card so its front is facing upwards (towards the monitor screen side of the camera), slide it into the card slot all the way in until you hear it click securely into place. Front Front Back 3. Close the battery cover. Close the battery cover and then shift the slider towards LOCK. · For information about how to replace the memory card, see page 177. **IMPORTANT!** · Never insert anything besides a supported memory card (page 20) into the memory card slot. · Should water or any foreign object ever get into the card slot, immediately turn off the camera, remove the battery, and contact your retailer or nearest CASIO authorized service center. 21 Quick Start Basics To format (initialize) a new memory card You need to format a new memory card before using it for the first time. 1. 2.

3. Turn on the camera and press [MENU]. On the "Set Up" tab, select "Format" and then press [6]. Use [8] and [2] to select "Format" and then press [SET]. **IMPORTANT!** · Formatting a memory card that already has snapshots or other files on it, will delete its contents.

Normally you do not need to format a memory card again. However, if storing to a card has slowed down or if you notice any other abnormality, re-format the card. · Be sure to use the camera to format a memory card. Formatting a memory card on a computer and then using it in the camera can slow down data processing by the camera. In the case of an SD, SDHC, or SDXC memory card, formatting on a computer can result in non-conformity with the SD format, causing problems with compatibility, operation, etc.

22 Quick Start Basics Turning the Camera On and Off To turn power on To turn on power and enter the REC mode Press [ON/OFF] (Power) or [r] (REC). ·

The back lamp will light green momentarily and the lens will extend out of the camera (page 25). Press [p] (PLAY). · The back lamp will light green momentarily and an image currently stored in camera memory will appear on the monitor screen (page 28). [ON/OFF] (Power) To turn on power and enter the PLAY mode Back lamp · Take care to ensure that nothing is restricting or coming into contact with the lens as it extends. Holding the lens with your hand so it cannot extend creates the risk of malfunction. · Pressing [p] (PLAY) while in the REC mode [p] (PLAY) [r] (REC) switches to the PLAY mode. The lens retracts about 10 seconds after switching modes. · The Sleep function or Auto Power Off (pages 161, 162) will turn off power automatically if you do not perform any operation for a preset amount of time. To turn off the camera Press [ON/OFF] (Power).

· You can configure the camera so power does not turn on when you press [r] (REC) or [p] (PLAY). You also can configure the camera to turn off when you press [r] (REC) or [p] (PLAY) (page 162). 23 Quick Start Basics Holding the Camera Correctly Your images will not come out Horizontal Vertical clearly if you move the camera when you press the shutter button. When pressing the shutter button, be sure to hold the camera as shown in the illustration, and keep it still by pressing your arms firmly against your sides as you shoot. Holding the camera still, Hold the camera so the flash is above the lens. carefully press the shutter button and take care to avoid all movement as the shutter releases and for a few moments after it releases. This is especially important when available lighting is low, which slows down the shutter speed. **NOTE** · Take care that your fingers and the strap do not Flash cover any of the areas indicated in the illustration. · To protect against accidentally dropping the Front lamp camera, attach the wrist strap and make sure it is around your fingers or wrist while you are operating the camera. · Never swing the camera around by its strap.

· The supplied strap is intended for use with this camera only. Never use it for any other purpose. · When the "Auto Rotate" setting is turned on, the Lens camera will detect whether it is being held vertically or horizontally when a snapshot image is shot. When you display an image shot with the camera held vertically, the image is rotated automatically 90 degrees when displayed on the monitor screen (page 156). **IMPORTANT!** · Take care to ensure that your fingers are not blocking or are not too close to the flash.

Fingers can cause unwanted shadows when using the flash. 24 Quick Start Basics To shoot a snapshot Selecting an Auto Recording Mode You can select one of two auto recording modes (Auto or Premium Auto) according to your digital imaging needs. R Auto This is the standard Auto recording mode. · It provides faster operation than Premium Auto recording. With Premium Auto recording, the camera automatically determines whether you are shooting a subject or scenery, and other conditions.

Premium Auto recording delivers higher Y Premium Auto image quality than standard Auto recording. · Premium Auto recording takes longer to process image data after it is shot than Auto recording. · It also requires more power (and runs down the battery quicker) than Auto. 1. 2. Press [r] (REC) to turn on the camera. The camera will enter the REC mode. Set the mode dial to t (Auto) or Y (Premium Auto) to select Auto recording mode. Auto recording mode icon Monitor screen Shutter button Mode dial [r] (REC) Remaining Snapshot Memory Capacity (page 191) 25 Quick Start Basics To shoot a snapshot 1. Point the camera at the subject.



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If you are using Premium Auto, text will appear in the lower right corner of the monitor screen describing the type of shot the camera has detected. · You can zoom the image, if you want. w Wide Angle Zoom controller z Telephoto Appears when the camera detects it is stationary on a tripod. 2. Half-press the shutter button to focus the image. When focus is complete, the camera will beep, the back lamp will light green, and the focus frame will turn green. Back lamp Focus frame Half-press Press lightly until the button stops. When you half-press the shutter button, the camera automatically adjusts exposure and focuses on the subject it is currently pointed at. Mastering how much pressure is required for a half-press and a full-press of the shutter button is an important technique for good-looking images. Beep, beep (Image is in focus).

) 3. Continuing to keep the camera still, press the shutter button the rest of the way down. This records the snapshot. Full-press Snap (Image is recorded.) 26 Quick Start Basics Recording a Movie Press [0] (Movie) to start movie recording.

Press [0] (Movie) again to stop movie recording. See the following pages for details. Standard movie (STD movie): page 61 High-definition movie (FHD movie): page 64 High speed movie (HS movie): page 64 [0] (Movie) . If the image does not focus..

· If the focus frame stays red and the back lamp is flashing green, it means that the image is not in focus (because the subject is too close, etc.). Re-point the camera at the subject and try to focus again. · Shooting with Auto If the subject is not in the center of the frame... "Focus lock" (page 86) is the name of a technique you can use when you want to shoot an image in which the subject to be focused on is not within the focus frame in the center of the screen. To track the movement of a moving subject Half-press the shutter button to follow and focus automatically on a moving subject.

See "E Tracking" (page 89) for more information. · Shooting with Premium Auto · In addition to shutter speed, aperture, and ISO sensitivity, the camera automatically executes the following operation as required when shooting with Premium Auto. Auto Focus is normally performed until you half-press the shutter button. Intelligent AF (Page 89) Face Detection (Page 90) · Shooting with Premium Auto can cause vibration and noise to occur due to lens operation. This does not indicate malfunction. · When Shooting with Premium Auto, the message "Processing Premium Auto. Please wait..." may appear on the monitor screen. If you feel the camera is taking too long to process data, try shooting with standard Auto instead. · In some cases, Premium Auto may not be able to interpret the shooting environment correctly. If this happens, shoot with standard Auto. 27 Quick Start Basics Viewing

Snapshots Use the following procedure to view snapshots on the camera's monitor screen.

· For information about how to play back movies, see page 99. · For information about images recorded using continuous shutter (CS), see page 101. 1. Press [p] (PLAY) to enter the PLAY mode. · This will display one of the snapshots currently stored in memory.

· Information about the displayed snapshot also is included (page 12). · You also can clear the information to [p] (PLAY) view only the snapshot (page 166). · You can zoom in on the image by sliding the zoom controller towards z (page 106). If you are recording a snapshot that is very important to you, it is recommended that you zoom the image and check its details after recording it. 2. Use [4] and [6] to scroll between images. · Holding down either button scrolls at high speed. [6] [6] [4] [4] NOTE · Half-pressing the shutter button while in the PLAY mode or while a menu screen is displayed will switch directly to the REC mode. 28 Quick Start Basics Deleting Snapshots and Movies If memory becomes full, you can delete snapshots and movies you no longer need in order to free up storage and record more images. IMPORTANT! · Remember that a file (image) delete operation cannot be undone.

· For information about images recorded using continuous shutter (CS), see page 102. To delete a single file 1. 2. 3. Press [p] (PLAY) to enter the PLAY mode and then press [2] (). Use [4] and [6] to scroll through the files until the one you want to delete is displayed. Use [8] and [2] to select "Delete" and then press [SET]. · To delete other files, repeat steps 2 and 3. · To exit the delete operation, press [MENU]. · If a CS group (page 101) is displayed when you perform the above procedure, all of the images in the currently displayed CS group will be deleted.

29 Quick Start Basics To delete specific files 1. 2. 3. Press [p] (PLAY) to enter the PLAY mode and then press [2] (Use [8] and [2] to select "Delete Files" and then press [SET]. · This displays a file selection screen.

) Use [8], [2], [4], and [6] to move the selection boundary to the file you want to delete, and then press [SET]. · This will select the check box of the currently selected file. 4. 5.

Repeat step 3 to select other files, if you want. After you are finished selecting files, press [MENU]. @@ · To cancel the delete operation, select "No" in step 5 and then press [SET]. To delete all files 1. 2. 3. Press [p] (PLAY) to enter the PLAY mode and then press [2] (Use [8] and [2] to select "Delete All Files" and then press [SET].). Use [8] and [2] to select "Yes" and then press [SET] to delete all files. This will cause the message "There are no files" to appear.

30 Quick Start Basics Snapshot Shooting Precautions Operation · Never open the battery cover while the back lamp is flashing green. Doing so can result in the image you just shot being saved incorrectly, damage to other images stored in memory, malfunction of the camera, etc. · If unwanted light is shining directly onto the lens, shade the lens with your hand. Monitor Screen when Shooting Snapshots · Subject brightness conditions can cause monitor screen response to slow and can cause digital noise in the monitor screen image. · The image that appears on the monitor screen is for image composition. The actual image will be recorded at the quality set for the image quality setting (page 96). Shooting Indoors under Fluorescent Lighting · Minute flickering of fluorescent lighting can affect the brightness or color of an image. Other Precautions · The slower the shutter speed, the greater the possibility that noticeable noise will be generated in an image. Because of this, the camera automatically performs a noise reduction at slow shutter speeds. The noise reduction process causes it to take longer to record images at lower shutter speeds.



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The shutter speeds for which noise reduction is performed depend on the camera setup and shooting conditions. · A noise reduction process is performed when ISO sensitivity is set to a high value. This can cause the camera to take relatively longer to be ready to shoot again after you press the shutter button. Do not perform any key operation while the image recording operation is in progress. · Due to the characteristics of the imaging element used by the camera, very fast moving objects in an image may appear distorted.

31 Quick Start Basics Auto Focus Restrictions · Any of the following can make proper focus impossible. Solid color wall or other very low contrast subject Strongly back lit subject Very shiny subject Blinds or other subject with a repeating horizontal pattern Multiple subjects at varying distances from the camera Subject in a dark location Subject that is too far away for light from the AF assist light to reach Camera movement while shooting Fast-moving subject Subjects outside the focus range of the camera · If you cannot focus properly, try using focus lock (page 86) or Manual Focus (page 84). 32 Quick Start Basics Snapshot Tutorial Selecting the Recording Mode Your camera has a variety of different recording modes. Before recording an image, rotate the mode dial to select the recording mode that suits the type of image you are trying to record. Mode dial t Auto Standard Auto recording mode. This is the mode you normally should use (page 25). Y Premium Auto With Premium Auto recording, the camera automatically determines whether you are shooting a subject or scenery, and other conditions. Premium Auto recording delivers higher image quality than standard Auto recording (page 25). b BEST SHOT Simply select one of a collection of built-in sample scenes and the camera sets up automatically for beautiful images every time (page 70). s Slide Panorama With Slide Panorama, you move the camera to compose and record multiple images, which are then combined to a panorama. This feature lets you shoot a panorama of up to 360 degrees, which is dramatically greater than the physical capabilities of the lens (page 59). i High Speed Best Selection With High Speed Best Selection, the camera automatically shoots a series of images, and selects the best one based on facial image blur, and facial expression (whether the subject is smiling or blinking) (page 58). M M (Manual Exposure) mode This mode gives you total control over aperture and shutter speed settings. 1 Press [SET] to open the control panel. 2 Use [8] and [2] to select the fourth control panel option from the top (aperture).

3 Use [4] and [6] to change the aperture setting. 4 Use [8] and [2] to select the fifth control panel option from the top (shutter speed). 5 Use [4] and [6] to change the shutter speed setting. Aperture value Shutter speed 33 Snapshot Tutorial S S (Shutter Speed Priority) mode In this mode, you select the shutter speed and other settings are adjusted accordingly. 1 Press [SET] to open the control panel. Shutter speed 2 Use [8] and [2] to select the fourth control panel option from the top (shutter speed). 3 Use [4] and [6] to change the shutter speed setting. · You also can select the EV shift setting located under the shutter speed setting and then specify an exposure value (EV shift), if you want. A A (Aperture Priority) mode In this mode, you select the aperture and other settings are adjusted accordingly. 1 Press [SET] to open the control panel.

Aperture value 2 Use [8] and [2] to select the fourth control panel option from the top (aperture). 3 Use [4] and [6] to change the aperture setting. · You also can select the EV shift setting located under the aperture setting and then specify an exposure value (EV shift), if you want. a HDR Art This feature applies HDR (High Dynamic Range, page 56) photography to transform snapshots into works of art that provide a greater degree of expression than conventional photography (page 57). h HDR With HDR (High Dynamic Range), the camera shoots a series of CS images using different exposure settings and combines them into a final image to correct for overexposure or underexposure of subjects of different brightness levels (page 56).

34 Snapshot Tutorial IMPORTANT! · You may not be able to achieve the brightness you want when shooting an image that is very dark or very bright. If this happens, use the M mode to adjust the aperture or shutter speed manually. · In the S mode, ISO sensitivity (page 40) always operates according to its "AUTO" setting. The ISO sensitivity setting cannot be changed while in the S mode. · While A, S, or M is selected for the recording mode, the flash will not fire if > (Auto Flash) or ¥ (Red Eye Reduction) is selected as the flash mode.

If you want the flash to fire, select < (Flash On) as the flash mode. · The displayed ISO sensitivity, shutter speed or aperture value will turn orange when you half-press the shutter button if the image is overexposed or underexposed. 35 Snapshot Tutorial Using the Control Panel The control panel can be used to configure camera settings. [8] [2] [4] [6] 1. In the REC mode, press [SET]. [SET] 2. Use [8] and [2] to select the setting you want to change. This will select one of the control panel icons and display its settings.*1 1Image size/Quality*2 (pages 37, 96) 2ISO sensitivity (page 40) 3White balance (page 41) 4EV shift (page 42) 5Not displayed in this mode 6Not displayed in this mode 7Not displayed in this mode 8Flash (page 43) 9Date/Time (page 45) Control panel *1 Items displayed in the control panel depend on the recording mode. *2 Image quality cannot be changed using the control panel.

1 2 3 4 5 6 7 8 9 3. 4. 5. Use [4] and [6] to change the setting. If you want to configure another setting, repeat steps 2 and 3. After all of the settings are the way you want, press [SET]. This will apply the settings and return to the REC mode. 36 Snapshot Tutorial NOTE · No icon is displayed for any Control Panel option (page 11) that is set to its initial default (reset) setting. An icon will appear only if you change the setting of the corresponding Control Panel option. The following are the initial defaults for Control Panel options.

ISO Sensitivity: AUTO White Balance: Auto WB EV Shift: ±0 Flash: Auto Flash · You also can use on-screen menus to configure settings other than those listed above (page 82). Changing the Image Size (Size) · Pixels A digital camera image is a collection of small dots called "pixels". The more pixels there are in an image, the more detail there will be. However, you generally can do with fewer pixels when printing an image (L size) through a print service, attaching an image to e-mail, when viewing the image on a computer, etc.



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Pixel. About image sizes The size of an image indicates how many pixels it contains, and is expressed as horizontal pixels x vertical pixels. 12M (4000x3000) size image = Approximately 12 million pixels 4000* 3000* VGA (640x480) size image = Approximately 300,000 pixels 640* 480* * Unit: pixels 37 Snapshot Tutorial Image Size Selection Tips Note that larger images have more pixels, so they take up more memory space. More detail, but takes up more memory. Best when you plan to print large-size prints (such as A3 size).

Large Number of Pixels Small Number of Pixels Less detail, but takes up less memory. Best when you want to send images by e-mail, etc. · For information about image size, image quality, and number of images that can be stored, see page 191. · For information about movie image size, see page 96. · For information about resizing existing snapshots, see page 121. · To select the snapshot image size 1. 2. 3. In the REC mode, press [SET].

Use [8] and [2] to select the top control panel option (Snapshot Image Size). Use [4] and [6] to select an image size and then press [SET]. Image Size (Pixels) 12M (4000x3000) 3:2 (4000x2656) 16:9 (4000x2240) 10M (3648x2736) 8M (3264x2448) 5M (2560x1920) 3M (2048x1536) Suggested Print Size and Application Poster Print Poster Print HDTV Poster Print A3 Print A4 Print 3.5"x5" Print Best when preserving memory capacity is relatively more important than image quality. Image files are smaller, which is better when attaching images to e-mail. However, images are relatively coarser. Good detail Description Good detail for better clarity even for images cropped (page 122) from the original VGA (640x480) E Mail 38 Snapshot Tutorial · The initial factory default image size setting is 12M (12 million pixels). · Selecting "3:2" records images with an aspect ratio of 3:2, which matches the standard aspect ratio of print paper. · The letters "HDTV" stand for "High Definition Television". An HDTV screen has an aspect ratio of 16:9, which makes them wider than the usual 4:3 aspect ratio of television screens of the past.

Your camera can record images that are compatible with the aspect ratio an HDTV screen. · You should regard the print paper sizes suggested here as guidelines only (200 dpi print resolution). · Available image sizes are limited for some functions as noted below. This image size cannot be selected while certain recording modes*1 or BEST SHOT scenes*2 are in use. If "12M" is selected in another mode, switching to one of these modes or BEST SHOT scenes will cause the image size to change to "10M" automatically.

These image sizes cannot be selected while certain recording modes*1 or BEST SHOT scenes*2 are in use. If "3:2" or "16:9" is selected in another mode, switching to one of these modes or BEST SHOT scenes will cause the image size to change to "10M" automatically. If the "CS mode" setting is "F CS", the image size setting will change to "12M". This image size can be selected only while certain recording modes*1 or BEST SHOT scenes*2 are in use. If the "10M" image size is selected with one of modes or BEST SHOT scenes, switching to another mode will cause the image size to change to "12M" automatically.

12M 3:2, 16:9 10M The following image sizes cannot be selected while shooting with High Speed CS: "12M", "3:2", "16:9". Entering the High Speed CS mode while any one of these image sizes is selected will cause the image size setting to change to "10M" automatically. The following image sizes cannot be selected while shooting with the F CS mode: "3:2", "16:9". Entering the F CS mode while one of the above is selected will cause the image size setting to change to "12M" automatically. *1 HDR, HDR Art, High Speed Best Selection *2 Multi SR Zoom, Child CS, Pet CS, Sports CS, Lag Correction, High Speed Night Scene, High Speed Night Scene and Portrait, High Speed Anti Shake 39 Snapshot Tutorial Specifying ISO Sensitivity (ISO) ISO sensitivity is a measure of sensitivity to light. 1. 2. 3. In the REC mode, press [SET]. Use [8] and [2] to select the second control panel option from the top (ISO Sensitivity).

Use [4] and [6] to select the setting you want and then press [SET]. AUTO ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600 Higher ISO 3200 sensitivity Fast shutter speed (Set for shooting in dimly lit areas.) Some coarseness (increased digital noise) Adjusts sensitivity automatically according to conditions Lower sensitivity Slow shutter speed Less noise · While "AUTO" is selected, Anti Shake corrects for subject movement only (page 88). · Higher ISO sensitivity values tend to result in digital noise in images. · Since higher ISO sensitivity values tend to result in digital noise in images, the camera performs a noise filtering process. Because of this, it may take relatively longer for the camera to finish recording an image after it is shot. You will not be able to perform any key operation while image recording is in progress. 40 Snapshot Tutorial Adjusting White Balance (White Balance) You can adjust white balance to match the source of light available where you are shooting and avoid the blue cast that results when shooting outdoors when it is cloudy, and the green cast that results when shooting under fluorescent lighting. 1. 2.

3. In the REC mode, press [SET]. Use [8] and [2] to select the third control panel option from the top (White Balance). Use [4] and [6] to select the shooting condition you want and then press [SET]. Auto WB ☒ Daylight ' Overcast " Shade Day White Fluorescent Daylight Fluorescent « Tungsten Configures the camera to adjust white balance automatically For shooting outdoors on a clear day For shooting outdoors on an overcast rainy day, in the shade, etc.

For shooting on a clear day in the shade of trees or buildings For shooting under white or day white fluorescent lighting For shooting under daylight fluorescent lighting For shooting under light bulb lighting For configuring the camera manually to suit a particular light source. Blank white paper 1 Select "Manual WB". 2 Under the lighting conditions you plan to use when shooting, point the camera at a blank white piece of paper so it fills the entire monitor screen and then press the shutter button. 3 Press [SET]. The white balance setting is retained even if you turn off the camera.

· Manual WB · When "Auto WB" is selected for the white balance setting, the camera automatically determines the white point of the subject. Certain subject colors and light source conditions can cause problems when the camera tries to determine the white point, which makes proper white balance adjustment impossible.



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If this happens, select the white balance setting that matches your shooting conditions (Daylight, Overcast, etc.). 41 Snapshot Tutorial Correcting Image Brightness (EV Shift) You can manually adjust an image's exposure value (EV value) before shooting it. · Exposure Compensation Range: 2.0 EV to +2.0 EV · Unit: 1/3EV 1. 2. In the REC mode, press [SET].

Use [8] and [2] to select the fourth control panel option from the top (EV Shift). · When A or S is selected as the recording mode, the EV Shift is the fifth control panel option from the top. 3. Use [4] and [6] to adjust the exposure compensation value. [6]: Increases the EV value. A higher EV value is best for light-colored subjects and backlit subjects. [4]: Decreases the EV value. A lower EV value is best for dark-color subjects and for shooting outdoors on a clear day. To cancel exposure compensation, change the EV value to 0.0.

Exposure compensation value 4. Press [SET]. This applies the exposure compensation value. The exposure compensation value you set remains in effect until you change it or turn off the camera (which causes it to revert to "0.0").

NOTE · When shooting under very dark or very bright conditions, you may not be able to obtain satisfactory results even after performing exposure compensation. 42 Snapshot Tutorial Using Flash (Flash) 1. 2. In the REC mode, press [2] (once.) Flash Use [4] and [6] to select the flash setting you want and then press [SET].

> Auto Flash ? Flash Off < Flash On ¥ Red Eye Reduction [2] () Flash fires automatically in accordance with exposure (amount of light and brightness) conditions. Flash does not fire. Flash always fires. This setting can be used to brighten a subject that normally comes out dark due to daylight or backlight (daylight synchro flash). Flash fires automatically. This type of flash can be used to reduce the chance of redness in the subject's eyes. 3. Press the shutter button to shoot. Back lamp Flashes red while the flash is charging to indicate that image recording is disabled. · You will not be able to take another flash snapshot until the lamp stops flashing red, which indicates that charging is complete.

< indicates the flash will fire. · For information about Flash Range, see page 195. 43 Snapshot Tutorial NOTE · Take care so your fingers and the strap do not block the flash. · The desired effect may not be obtained when the subject is too far away or too close. · Flash charging time (page 195) depends on operating conditions (battery condition, ambient temperature, etc.). · Shooting with flash turned off when lighting is dim results in a slow shutter speed, which can cause image blur due to camera movement. Under such conditions, secure the camera with a tripod, etc. · With red eye reduction, the flash is fired automatically in accordance with exposure. It does not fire in areas where lighting is bright.

· The presence of outdoor sunlight, fluorescent lighting, or some other light source can cause abnormal image colors. · Select ? (Flash Off) for the flash setting when shooting in areas where flash photography is prohibited. · While A, S, or M is selected for the recording mode, the flash will not fire if > (Auto Flash) or ¥ (Red Eye Reduction) is selected as the flash mode. If you want the flash to fire, select < (Flash On) as the flash mode. Red-eye Reduction Using the flash to shoot at night or in a dimly lit room can cause red spots inside the eyes of people who are in the image.

This is caused when the light from the flash reflects off of the retina of the eye. When red-eye reduction is selected as the flash mode, the camera fires a pre-flash to cause the irises in the eyes of any people in the image to close, which reduces the chance of red eye. Note the following important points when using red-eye reduction. · Red-eye reduction does not work unless the people in the image are looking directly at the camera (flash). · Red-eye reduction may not work very well if the subjects are located far away from the camera.

44 Snapshot Tutorial Changing the Control Panel Date/Time Style 1. 2. In the REC mode, press [SET]. Use [8] and [2] to select the bottom control panel option (Date/Time). You can use [4] and [6] to select date or time display. NOTE · You can select either of two display styles (page 160) for the date: Month/Day or Day/Month. · The time is displayed using 24-hour format. Shooting with Zoom Your camera is equipped with various types of zoom: optical zoom, HD Zoom, Single SR Zoom, Multi SR Zoom, and digital zoom. The maximum zoom factor depends on the image size setting and the digital zoom on/off settings. Optical zoom HD Zoom Single SR Zoom Changes the lens focal distance.

Allows greater zoom capabilities by cutting out a portion of the original image and enlarging it. Applies super resolution technology to suppress image deterioration (page 47). Shoots a burst of High Speed CS images, which are then combined into a final image to suppress image quality deterioration across a range that is greater than Single SR Zoom. (Multi SR Zoom is enabled by selecting the "Multi SR Zoom" BEST SHOT scene.) (page 76) Digitally processes the center of the image to enlarge it. Multi SR Zoom Digital zoom 1. In the REC mode, slide the zoom controller to zoom. w Wide Angle z Telephoto Zoom controller w (Wide Angle): Reduces the size of the subject and broadens the range. z (Telephoto) : Enlarges the subject and narrows the range. 2.

Press the shutter button to shoot the image. 45 Snapshot Tutorial NOTE · Use of a tripod is recommended to protect against image blur due to camera movement when shooting with telephoto. · Performing a zoom operation changes the lens aperture. · Except for High Speed Movie, zoom operations are supported during movie recording. Zoom operations are disabled during high speed movie recording.

To use optical zoom, perform the zoom operation before you press [0] (Movie) to start recording. · Zoom operations are not supporting during Slide Panorama shooting. The zoom setting is fixed at full wide angle. Interpreting the Zoom Bar During a zoom operation, a zoom bar appears on the monitor screen to show the current zoom setting. Range where image deterioration is suppressed.

(optical zoom, HD Zoom, Single SR Zoom, Multi SR Zoom) Deteriorated image range (digital zoom) IX Optical zoom limit point · 12.5X optical zoom point 50.0X to 199.3X Zoom pointer (Indicates current zoom.) Point from which image deteriorates · The point from which image deteriorates depends on the image size and on the "Zoom (SR)" setting. Zoom (SR) Setting Off Single (Single SR Zoom) Point from which image deteriorates 12.5X to 78.0X 18.8X to 117.



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IX Multi SR Zoom (BEST SHOT scene) 25.

0X to 142.3X 46 Snapshot Tutorial . Zoom Icon The appearance of the zoom icon on the monitor screen depends on the zoom factor. Optical zoom HD Zoom Single SR Zoom Multi SR Zoom Digital zoom è Not displayed Not displayed ç (White) (Orange) . Zoom Factor The digital zoom factor depends on the image size (page 37), the super resolution zoom setting, and on whether or not the "Multi SR Zoom" BEST SHOT scene is selected (page 76). Multi SR Zoom is enabled by selecting the "Multi SR Zoom" BEST SHOT scene. 12M Maximum Size Setting Recording Modes Image size 12M 3:2 16:9 8M 5M 3M VGA Maximum zoom factor where image deterioration can be suppressed Zoom (SR): Off 12.5X 12.5X 12.5X 15.

4X 19.5X 24.4X 78.0X Zoom (SR): Single 18.8X 18.

8X 18.8X 23.0X 29.3X 36.6X 117.

IX Total maximum zoom factor Zoom (SR): Off 50.0X 50.0X 50.0X 61.3X 78.0X 97.5X 199.3X Zoom (SR): Single 75.0X 75.0X 75.

0X 91.8X 116.9X 146.3X 199.3X 10M Maximum Size Setting Recording Modes Image size 10M 8M 5M 3M VGA Maximum zoom factor where image deterioration can be suppressed Zoom (SR): Off 12.5X 14.0X 17.8X 22.3X 71.3X Multi SR Zoom 25.

0X 27.9X 35.6X 44.5X 142.3X Total maximum zoom factor Zoom (SR): Off 50.

0X 55.9X 71.3X 89.0X 199.3X Multi SR Zoom 100.

0X 111.5X 142.3X 177.8X 199.3X 47 Snapshot Tutorial Zooming with Super Resolution (Zoom (SR)) There are two types of Super Resolution Zoom: Single SR Zoom and Multi SR Zoom. Single SR Zoom uses super resolution to expand the zoom range in which image quality deterioration is minimized. Multi SR Zoom shoots a series of High Speed CS images, which are then combined into final image to suppress image quality deterioration across a range that is greater than Single SR Zoom. For information about the effective zoom factor ranges in which Super Resolution Zoom is effective, see page 47. The procedure below shows how to configure Single SR Zoom settings. For information about Multi SR Zoom, see page 76.

1. 2. 3. 4. In the REC mode, press [MENU]. Use [4] and [6] to select the "REC" tab. Use [8] and [2] to select "Zoom (SR)" and then press [6]. Use [8] and [2] to select "Single" and then press [SET]. NOTE · Single SR Zoom is effective when you want to capture delicate textures. · Single SR Zoom does not work during movie recording.

· The following functions are disabled when shooting with Single SR Zoom. Triple Self-timer, HDR, HDR Art, Slide Panorama, High Speed Best Selection, some BEST SHOT scenes 48 Snapshot Tutorial Using Continuous Shutter Pressing Õ (Continuous Shutter) toggles between the Continuous Shutter mode and the Single Shot mode (page 25). Õ (Continuous Shutter) Using High Speed CS and Prerecord CS With High Speed CS, you can configure the camera to shoot at a speed of 3, 5, 10, 15, 30, or 40 images per second, as long as you keep the shutter button and there is memory available to store the images. With Prerecord CS, half-pressing the shutter button starts continual pre-recording of images to a temporary buffer. Then when you press the shutter button the rest of the way down, the camera stores what is currently in the buffer and starts real-time continuous shutter recording of new images.

Realtime recording continues until you release the shutter button or until a total of up to 30 images (buffer images plus new images) are recorded. You can configure Prerecord CS to specify how many of the 30 images are recorded in the buffer and how many are recorded after you fully press the shutter button. Use Prerecord CS when you want to make sure you do not miss fast-moving action. Shutter button half-press Shutter button full-press Recorded images (up to 30 images) Pre-recorded images Continuous recording of images until shutter button released Shutter button release * You can record up to 30 images (pre-recorded buffer images plus real-time images) for each Prerecord CS operation. 49 Snapshot Tutorial · You can specify 5, 10, 20, or 30 as the maximum number of shots for each continuous shutter operation.*

· You can specify anywhere from 0.75 seconds up to 10 seconds as the continuous shutter shooting time, which is the amount of time of the pre-record buffer plus the amount of time that continuous shutter recording is performed after the shutter button is pressed all the way. The maximum shooting time depends on the selected CS speed. You can select a CS speed in the range of 3 to 40 fps. 40 images per second You can shoot up to 30 images in 0.75 seconds. (40 fps) 3 images per second (3 fps) You can shoot up to 10 images over 30 seconds. · You can configure the mode so up to 25 images are pre-recorded to the buffer until you fully press the shutter button. · The minimum number of pre-recorded buffer images you can specify is three. Total recording time depends on the current continuous shutter frames-per-second (fps) setting.

· Specifying zero for the number of pre-recorded images disables Prerecord CS and performs High Speed CS only (without pre-recording). · Getting Ready 1. 2. 3. 4. 5. 6. Set the mode dial to t (Auto). In the REC mode, press [MENU].

Use [4] and [6] to select the "REC" tab. Use [8] and [2] to select "CS" and then press [6]. High Speed CS icon Use [8] and [2] to select "High Speed CS", and then press [SET]. Press Õ (Continuous Shutter). · This will display S (High Speed CS) and surround the monitor screen with a yellow frame.

If this does not happen, press Õ again. 7. 8. Press [SET]. Use [8] and [2] to select the fourth control panel option from the bottom (High Speed CS fps). 50 Snapshot Tutorial 9. Use [4] and [6] to select the continuous shutter (CS) speed you want. CS speed 3 to 40 fps Enables specification of the number of CS images recorded per second. 10. 11. 12. 13. Use [8] and [2] to select the third control panel option from the bottom (Max CS shots). Use [4] and [6] to select the maximum number of shots for each continuous shutter operation. Use [8] and [2] to select the second control panel option from the bottom (Prerecord CS shots).

Use [4] and [6] to specify how many of the 30 images and for how long images should be pre-recorded in the buffer. · Prerecord CS shooting is not performed when the number of buffer images and the recording time are both zero. Shutter button full-press Number of pre-record images and pre-record time Number of remaining images and remaining recording time after the shutter button fullpress 14. Press [SET]. · The approximate number of recordable CS images will appear on the monitor screen. Number of recordable CS images (If you are not performing Prerecord CS, the allowable continuous shutter time also is displayed.) Remaining snapshot memory capacity 51 Snapshot Tutorial · Shooting Images 1. Half-press the shutter button. This will cause the camera to start pre-recording images.



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