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You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO EXILIM EX-H15. You'll find the answers to all your questions on the CASIO EXILIM EX-H15 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-H15
User guide CASIO EXILIM EX-H15
Operating instructions CASIO EXILIM EX-H15
Instructions for use CASIO EXILIM EX-H15
Instruction manual CASIO EXILIM EX-H15

CASIO
Digital Camera
EX-H15
User's Guide

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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! [Dynamic Photo](#)

EXILIM



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Manual abstract:

Digital camera Rechargeable lithium ion battery (NP-90) Charger unit (BC-90L) To attach the strap to the camera * The shape of the power cord plug varies according to country or geographic area. 1 2 Strap Attach strap here. Power cord USB cable AV cable CD-ROM Basic Reference 2 Read this first! · The contents of this manual and the bundled Basic Reference 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. · Any copying of the contents of this User's Guide, either in part or its entirety, is forbidden. Except for your own personal use, any other use of the contents of this manual without the permission of CASIO

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· 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 a few test shots Before shooting your final image, shoot a test shot to ensure that the camera is recording correctly. 3 Contents Unpacking

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12 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 three main functions. Premium Auto Select Premium Auto recording and the camera automatically determines whether you are shooting a subject or scenery, and other conditions. Premium Auto delivers higher image quality than standard Auto. See page 23 for more information. Advanced Dynamic Photo Extract people or objects out of images you shoot and insert them into another snapshot or movie (background).

You can even insert a moving subject to create true Dynamic Photo images. See page 107 for more information. BEST SHOT Simply select the sample scene you want and the camera sets up automatically. Then all you need do is press the shutter button for perfect images. See page 56 for more information.

13 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-90) for power. Never try to use any other type of battery. To charge the battery 1. Positioning 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 180 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 158) Charging complete 14 Quick Start Basics Other Charging Precautions · Use the special charger (BC-90L) to charge the special lithium ion battery (NP-90). 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.

1 2 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 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 159. 2 1 15 Quick Start Basics 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 three 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 144). · See page 178 for information about battery life and memory capacity. Battery Power Conservation Tips · When you do not need to use the flash, select ? (Flash Off) for the flash setting (page 35). · Enable the Auto Power Off and the Sleep features to protect against wasting battery power when you forget to turn off the camera (pages 145, 146). · Select "Off" for "Continuous AF" (page 72). 16 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 145).

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.



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Use [8], [2], [4], and [6] to select the language you want and then press [SET]. [BS] [ON/OFF] SET 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 [BS]. 5. After setting the date and time, use [4] and [6] to select "Apply" and then press [SET]. 17 Quick Start Basics 6. Use [8] and [2] to select "Auto" or "Premium Auto" as the auto recording mode (page 23) and then press [SET]. After configuring the auto recording mode setting you want here, you can toggle between "Auto" and "Premium Auto" by pressing [AUTO]. 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 145 Date and time: Page 144 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. When no memory card is loaded, images are saved to built-in memory. For information about memory card capacities, see page 174. Supported Memory Cards SD Memory Card SDHC Memory Card Use one of the above types of memory card. 18 Quick Start Basics To load a memory card 1. Press [ON/OFF] 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.

1 2 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 160. 2 IMPORTANT! 1 Never insert anything besides a supported memory card (page 18) 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. 19 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]. Select 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 or SDHC memory card, formatting on a computer can result in non-conformity with the SD format, causing problems with compatibility, operation, etc. Before formatting a new Eye-Fi card to use it for the first time, copy the Eye-Fi Manager install files to your computer. Do this before formatting the card. 20 Quick Start Basics Turning the Camera On and Off To turn power on To enter the REC mode, press [ON/OFF] (Power) or [r] (REC). To enter the PLAY mode, press [p] (PLAY). The back lamp will light (green) momentarily and the camera will turn on. If you are entering the REC mode, the lens will extend from the camera at this time. 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 switches to the PLAY mode. The lens retracts about 10 seconds after switching modes. The Sleep function or Auto Power Off (pages 145, 146) will turn off power automatically if you do not perform any operation for a preset amount of time. [ON/OFF] (Power) Back lamp [p] (PLAY) [r] (REC) 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 146). 21 Quick Start Basics Holding the Camera Correctly Your images will not come out 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 below, and keep it still by pressing your arms firmly against your sides as you shoot. Holding the camera still, 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.

Horizontal Vertical Hold the camera so the flash is above the lens. NOTE Hold the camera securely in your left hand, with your fingers around the grip on the right front of the camera. Take care that your fingers and the strap do not cover any of the areas indicated in the illustration. To protect against accidentally dropping the 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. IMPORTANT! Flash Microphone Front lamp Lens 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. 22 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.



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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. Use [AUTO] to select Auto recording mode.

Each press of [AUTO] toggles between Auto (r) and Premium Auto (Y). Auto recording mode icon [AUTO] Monitor screen Shutter button [r] (REC) Remaining Snapshot Memory Capacity (page 174) · Selecting the "Auto" or "Premium Auto" BEST SHOT scene will change the current auto recording setting accordingly (page 56). 23 Quick Start Basics To shoot a snapshot 1. Point the camera at the subject. 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. Beep, beep (Image is in focus.) 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. · The focus frame in the screen shots included in this manual is shown at β . Note that you can change the form of the focus frame, if you want (page 75). 24 Quick Start Basics 3. Continuing to keep the camera still, press the shutter button the rest of the way down. This records the snapshot. Full-press Recording a Movie Press [0] (Movie) to start movie recording.

Press [0] (Movie) again to stop movie recording. See page 51 for details. [0] (Movie) Snap (Image is recorded.) · 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 39) 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 "Tracking" (page 40) for more information. 25 Quick Start Basics · 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 (Continuous AF (Page 72)).

Intelligent AF (Page 40) Face Detection (Page 44) Make-up/Landscape (Pages 48, 49) · 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.

26 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 85. 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 174). · You also can clear the information to [p] (PLAY) view only the snapshot (page 149). · You can zoom in on the image by sliding the zoom controller towards z (page 88). 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. 27 Quick Start Basics Deleting Images If memory becomes full, you can delete images you no longer need to free up storage and record more images. IMPORTANT! · Remember that a file (image) delete operation cannot be undone.

· Deleting an audio snapshot (page 105) deletes both the snapshot and the audio file. 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]. 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 [BS]. Use [8] and [2] to select "Yes" and then press [SET]. · This deletes the files you selected. · To exit the delete operation, press [MENU]. 28 Quick Start Basics 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. 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 when shooting an image.



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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 79). Shooting Indoors under Fluorescent Lighting · Minute flickering of fluorescent lighting can affect the brightness or color of an image. 29 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 lamp 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 39) or Manual Focus (page 37). 30 Quick Start Basics Snapshot Tutorial Using the Control Panel The Control Panel can be used to configure camera settings. 1. In the REC mode, press [SET]. This will select one of the Control Panel icons and display its settings. [8] [2] [4] [6] Available settings Control Panel [SET] 1 2 3 4 5 6 7 8 9 2.

Use [8] and [2] to select the setting you want to change. 1Image size/Quality* (pages 32, 79) 2Flash (page 35) 3Focus (page 37) 4AF Area (page 40) 5ISO sensitivity (page 42) 6Self-timer (page 43) 3. 4. 5. 7Face Detection/Make-up/Landscape (pages 44, 48, 49) 8EV shift (page 45) 9Date/Time (page 46) * Snapshot image quality cannot be changed using the Control Panel. 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. NOTE · You also can configure settings other than those listed above (page 64).

· The Control Panel cannot be displayed when certain BEST SHOT scenes are being used. 31 Snapshot Tutorial Specifying Control Panel Items You can use the following procedure to specify the eight items you want on the Control Panel. 1. 2. 3.

In the REC mode, press [SET]. Press [MENU]. · This will display a menu of Control Panel items, with the items currently selected for display shown in green. Use [8], [2], [4], and [6] to select an item you want on the Control Panel and then press [SET]. This will cause the lamp next to the item to light.

4. Repeat the above step to select eight items for the Control Panel. After you select the eighth item, the camera switches to the REC mode and displays the Control Panel. · To exit the item select operation, press [MENU]. NOTE · The "Date/Time" item at the bottom of the Control Panel is fixed and cannot be changed. · The screen shots in this manual show the initial default Control Panel items. · To return the Control Panel items to their initial defaults, reset the camera (page 148). 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. Pixel 32 Snapshot Tutorial · About image sizes The size of an image indicates how many pixels it contains, and is expressed as horizontal pixelsxvertical pixels. 10M (3648x2736) size image = Approximately 10 million pixels 3648* 2736* VGA (640x480) size image = Approximately 300,000 pixels 640* 480* * Unit: pixels 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 174. · For information about movie image size, see page 80.

· For information about resizing existing snapshots, see page 104. 33 Snapshot Tutorial · To select the image size 1. 2. 3.

In the REC mode, press [SET]. Use [8] and [2] to select the top Control Panel option (Image Size). Use [4] and [6] to select an image size and then press [SET]. Suggested Print Size and Application Poster Print Poster Print HDTV Poster Print Good detail A3 Print 3.5"x5" Print E Mail 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 for better clarity even for images cropped (page 104) from the original Description Image Size (Pixels) 14M (4320x3240) 3:2 (4320x2880) 16:9 (4320x2432) 10M (3648x2736) 6M (2816x2112) 3M (2048x1536) VGA (640x480) · The initial factory default image size setting is "14M". · 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). 34 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]. · You can select the flash mode by pressing [2] () in either of the following cases. When "Flash" is not shown on the control panel (page 32) After [8] (DISP) is pressed to clear the information from the monitor screen (page 149) > Auto Flash ? Flash Off < Flash On _ Soft Flash ¥ 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). Soft flash always fires, regardless of exposure conditions Flash fires automatically. This type of flash can be used to reduce the chance of redness in the subject's eyes.



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Press the shutter button to shoot. Back lamp Flashes orange 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 orange, which indicates that charging is complete. VGA NA < indicates the flash will fire. · For information about Flash Range, see page 177.

35 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 177) 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 photograph is prohibited. 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. The camera also has an auto red-eye correction feature that corrects for red-eye in recorded images. 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. Other Useful Flash Features · Changing the flash intensity (page 84) 36 Snapshot Tutorial Selecting a Focus Mode (Focus) You can select a focus mode setting. 1. 2. 3. In the REC mode, press [SET]. Use [8] and [2] to select the third Control Panel option from the top (Focus). Use [4] and [6] to select the setting you want and then press [SET]. Type of Shot Focus Mode Snapshot Movies Automatic Fixed focal point Approximate Focus Range*1 Snapshot Approximately 15 cm to 9 (infinity) (5.9" to 9) (Wide Angle) Approximately 7 cm to 50 cm (2.8" to 19.7")

8" to 19.7") (First step zoom from the Widest Angle setting) Approximately 7 cm to 50 cm (2.8" to 19.7") Infinity Approximately 15 cm to 9 (infinity)*2 (5.9" to 9) (Wide Angle) Fixed distance Movies Settings Q Auto Focus General recording Macro Close ups Automatic *2 Á Super Close ups Macro) Infinity W Manual Focus Scenery and other distant subjects When you want to focus manually Automatic Fixed Manual *1 The focus range is the distance from the lens surface.

*2 The minimum changes along with the optical zoom setting. 37 Snapshot Tutorial Super Macro Super Macro fixes optical zoom at a position that allows you to shoot from the closest distance to the subject. The result is closer and larger subject images. NOTE · Zoom is fixed while Super Macro is selected, so no zoom operation is performed when you slide the zoom controller. To focus with manual focus 1.

On the monitor screen, compose the image so the subject you want to focus on is within the yellow boundary. Watching the image on the monitor screen use [4] and [6] to adjust focus. · At this time the image that is within the boundary will enlarge and fill the monitor screen, which aids in focusing. If you do not perform any operation for two seconds while the enlarged image is displayed, the screen in step 1 will re-appear. Yellow boundary 2. NOTE · An Auto Macro feature detects how far the subject is from the lens and automatically selects either Macro Focus or Auto Focus accordingly. · Use of the flash together with Macro Focus can cause the light of the flash to become blocked, which may result in unwanted lens shadows in your image. · Whenever you perform an optical zoom operation while shooting with Auto Focus, Macro Focus, or Manual Focus, a value will appear on the monitor screen to tell you the focus range, as shown below. Example: oo cm to 9 * oo is the actual focusing range value. D 38 Snapshot Tutorial Using Focus Lock "Focus lock" is a technique you can use when you want to compose an image in which the subject you want to focus on is not within the focus frame in the center of the screen.

· To use focus lock, select "Û Spot" for the Auto Focus area (page 40). Subject to be focused on 1. 2. 3. Align the monitor screen's focus frame with the subject you want to focus on and then half-press the shutter button. Keeping the shutter button half-pressed (which maintains the focus setting), move the camera to compose the image. When you are ready to shoot the image, press the shutter button the rest of the way down. Focus frame NOTE · Focus lock also locks exposure (AE). 39 Snapshot Tutorial Specifying the Auto Focus Area (AF Area) Ò Intelligent Û Spot The camera automatically determines the focus point on the screen and focuses there (intelligent AF). This mode takes readings of a small area in the center of the image.

This setting works well with focus lock (page 39). When you half-press the shutter button while this setting selected, the camera will select the optimum Auto Focus area from among nine possible areas. The focus frame of the area where the camera focuses will be displayed in green. Half-pressing the shutter button focuses on the subject and causes the focus frame to track the movement of the subject. È Multi È Tracking 1.

2. 3. 4. In the REC mode, press [SET]. Use [8] and [2] to select the fourth Control Panel option from the top (AF Area).

Use [4] and [6] to select the setting you want and then press [SET]. Point the camera at the subject and half-press the shutter button. Wait until the camera adjusts exposure and focus automatically. 40 Snapshot Tutorial 5. Press the shutter button the rest of the way down. "Ò Intelligent" "Û Spot" or "È Tracking" Focus frame "È Multi" Focus frame Focus frame IMPORTANT! · "È Multi" cannot be selected for the Auto Focus area while you are using Face Detection (page 44). · "È Tracking" cannot be selected for the Auto Focus area while you are using Auto Shutter (page 69). · Selecting "È Tracking" can cause vibration and noise to occur due to lens operation while tracking a subject.



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This does not indicate malfunction. 41 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 fifth Control Panel option from the top (ISO Sensitivity). Use [4] and [6] to select the setting you want and then press [SET]. AUTO ISO 64 ISO 100 ISO 200 ISO 400 ISO 800 ISO 1600 ISO 3200 Higher 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 · "AUTO" ISO sensitivity always is applied for movies, regardless of the current ISO sensitivity setting. · Higher ISO sensitivity values tend to result in digital noise in images. 42 Snapshot Tutorial Using the Self-timer (Self-timer) With the Self-timer, pressing the shutter button starts a timer.

The shutter is released and the image is shot after a fixed amount of time. 1. 2. 3. In the REC mode, press [SET].

Use [8] and [2] to select the sixth Control Panel option from the top (Self-timer). Use [4] and [6] to select the setting you want and then press [SET]. · 10sec Self-timer, 2sec Self-timer 10-second Self-timer 2-second Self-timer · When shooting under conditions that slow down the shutter speed, you can use this setting to prevent image blur due to camera movement. Shoots three images: one image 10 seconds after the shutter button is pressed, and the next two images as soon as the camera is ready after shooting the previous image. How long it takes for the camera to get ready to shoot depends on the image size and quality settings, whether or not a memory card is loaded in the camera, and the flash charge condition.

" X3 Self-timer (Triple Self-timer) Self-timer Off Turns off the Self-timer. · The front lamp flashes while the Self-timer countdown is in progress. · You can interrupt an ongoing Self-timer countdown by pressing [SET]. Front lamp NOTE · The Self-timer cannot be used together with the following features. CS: Normal Speed CS/4fps/10fps, some BEST SHOT scenes · The Triple Self-timer cannot be used together with the following features. Auto Shutter, CS: Flash, Movie, Make-up Mode, Landscape Mode, some BEST SHOT scenes 43 Snapshot Tutorial Using Face Detection (Face Detection) When shooting people, the face detection feature detects the faces of up to ten individuals and adjusts focus and brightness accordingly. 1. 2. 3. 4.

5. 6. In the REC mode, press [SET]. Use [8] and [2] to select the seventh Control Panel option from the top (Face Detection). Use [4] and [6] to select "G Face Detection: On" and then press [SET]. Point the camera at the subject(s). The camera will detect human faces and display a frame around each one. Half press the shutter button. The camera will focus and the frames around the faces it focuses on will turn green. Press the shutter button the rest of the way down. Tips for Best Face Detection Results · The camera performs center focus if it cannot detect a face. · Always make sure that Auto Focus (AF) is selected as the focus mode when shooting with face detection. · Face detection may take a bit longer when you hold the camera sideways. · Detection of the following types of faces is not supported. Face that is obstructed by hair, sunglasses, a hat, etc.

, or a face in dark shade A profile or a face that is at an angle A face that is very far away and small, or very close and large A face in an area that is very dark The face of a pet or some other non-human subject IMPORTANT! · Face detection cannot be used in combination with any of the following features.

Some BEST SHOT scenes Movie Recording · The following function is disabled when shooting with face detection. Multi AF 44 Snapshot Tutorial Correcting Image Brightness (EV Shift) You can manually adjust an image's exposure value (EV value) before shooting it. · Exposure Compensation Range: -2.0EV to +2.

0EV · Unit: 1/3EV 1. 2. 3. In the REC mode, press [SET]. Use [8] and [2] to select the second Control Panel option from the bottom (EV Shift). 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. 45

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). Use [4] and [6] to select the date or time. NOTE · You can select either of two display style (page 144) for the date: Month/Day or Day/Month. · The time is displayed using 24-hour format.

Shooting with Zoom Your camera provides you with 10X optical zoom (that changes the lens focal distance), which can be used in combination with digital zoom (that digitally processes the center portion of the image to enlarge it) for total zoom capabilities of 10X to 159.4X. The image deterioration point depends on the image size (page 48). 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. IMPORTANT! · Digital zoom is disabled while date stamping (page 143) is turned on. 46 Snapshot Tutorial NOTE · The higher the digital zoom factor, the coarser the recorded image. Note that the camera also has a function that lets you record using digital zoom without image deterioration (page 48). · 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. · Digital zoom only is available during movie recording.

You can adjust the optical zoom setting before you press [0] (Movie) to start movie recording. Optical Zoom and Digital Zoom Switch Point If you hold the zoom controller towards z (Telephoto), the zoom operation will stop when the optical zoom factor reaches its maximum. Momentarily releasing the zoom controller and then holding it again towards z (Telephoto) will switch to digital zoom, which you can use to set an even higher zoom factor.



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· During zoom, a zoom bar on the monitor screen shows the current zoom setting. Undeteriorated image quality range Deteriorated image quality range IX 10X to 67.5X 40X to 159.4X Optical/digital zoom switch point * 10X optical zoom point Zoom pointer (Indicates current zoom.) Image deterioration · An image deterioration icon (U) will appear on the monitor screen at the point where image deterioration starts. 47 Snapshot Tutorial · The image deterioration point depends on the image size (page 32). The smaller the image size, the higher the zoom factor you can use before reaching the image deterioration point. · Though digital zoom generally causes a deterioration of image quality, some digital zoom without image deterioration is possible with image sizes of "10M" and smaller. The range in which you can use digital zoom without image deterioration is indicated on the display. The deterioration point depends on the image size. Image Size 14M 3:2 16:9 10M 6M 3M VGA Maximum Zoom Factor 40X 40X 40X 47.4X 61.

3X 84.3X 159.4X Undeteriorated zoom limit 10X 10X 10X 11.8X 15.3X 21.

IX 67.5X Shooting with the Make-up Mode (Make-up) The Make-up Mode smoothes the skin texture of the subject and softens facial shadows caused by harsh sunlight for better looking portraits. 1. In the REC mode, press the 1/2 button once so ± appears in the control panel. · This will enter the Make-up Mode, which is indicated by ± on the Control Panel. · If ± does not appear in the control panel, press the 1/2 button one or two more times until it appears. Each press of 1/2 cycles the REC mode in the following sequence: Make-up Mode * Landscape Mode (page 49) * Normal Mode. Make-up icon 1/2 48 Snapshot Tutorial 2. Use [4] and [6] to select "Make-up Level" (seventh Control Panel icon from the top), and then press [SET]. · You can set one of 13 levels in the range of "0 (Off)" (no correction) to "+12 (Max.

)" (maximum correction). The larger the value, the greater the processing that is performed. 3. 4. 5. Point the camera at the subject(s). The camera will detect human faces and display a frame around each one. Half-press the shutter button. The camera will focus on the face, which will cause frames around it to turn green. When you are ready to shoot, press the shutter button all the way down.

NOTE · The following functions cannot be used together with the Make-up Mode. Continuous Shutter, Triple Self-timer, Face Detection, Landscape Mode, Some BEST SHOT scenes · Switching from "Auto" to "Premium Auto" (page 23) causes the Make-up Mode feature to be applied automatically. Because of this, you cannot enter the Make-up Mode while you are using Premium Auto. Shooting Beautiful Scenery Images (Landscape) The Landscape Mode makes colors more vivid, filters haze, and performs other processing that enhances the beauty of natural scenery. 1.

In the REC mode, press the 1/2 button twice so Ö appears in the control panel. · This will display Ö on the control panel, indicating the Landscape Mode. · If Ö does not appear in the control panel, press the 1/2 button one or two more times until it appears. Each press of 1/2 cycles the REC mode in the following sequence: Make-up Mode (page 48) * Landscape Mode * Normal Mode. 1/2 Landscape icon 49 Snapshot Tutorial 2.

3. Press [SET] and then use [8] and [2] to select the seventh control panel option from the top (Landscape Mode). Use [4] and [6] to select the Landscape Mode setting you want. Vivid Landscape Mist Removal Enhances colors to produce a clearer, more vivid landscape image. Corrects for misty and cloudy conditions for scenery images that appear as if they were shot on a clear day. · Available level settings are "+1" (Weak) and "+2" (Strong). 4. 5. 6. When everything is the way you want, press [SET].

This will apply the effect you selected. Point the camera at the scenery you want to record. Press the shutter button to shoot. NOTE · The following functions are disabled while the camera is in the Landscape Mode: Continuous Shutter (CS), Triple Self-timer, Make-up Mode, Face Detection, Lighting, Color Filter, Sharpness, Saturation, Contrast, Some BEST SHOT scenes · Switching from "Auto" to "Premium Auto" (page 23) causes the Landscape Mode feature to be applied automatically. Because of this, you cannot enter the Landscape Mode while you are using Premium Auto. 50 Snapshot Tutorial Recording Movie Images and Audio To record a movie 1. 2. Configure the quality setting for the movie (page 80). The length of the movie you can record will depend on the quality setting you select. In the REC mode, point the camera at the subject and then press [0] (Movie).

This will start recording and display Y on the monitor screen. Movie recording includes monaural audio. · Immediately after you press [0], the camera will focus automatically on the subject in the center of the monitor screen. After this, focus is fixed while movie recording is in progress. Remaining recording time (page 175) [0] (Movie) Recording time 3.

Press [0] again to stop recording. · Each movie can be up to 29 minutes long. Movie recording stops automatically after 29 minutes of recording. Movie recording also will stop automatically if memory becomes full before you stop movie recording by pressing [0]. Shooting with BEST SHOT With BEST SHOT (page 56), you can select the sample scene that matches the type of movie you are trying to shoot and the camera will change its setup accordingly, for beautiful movies every time.

Selecting the BEST SHOT scene named Night Scene, for example, will configure the camera so night scenes appear clearer and brighter. Minimizing the Effects of Camera Movement during Movie Recording You can configure the camera to minimize the effects of camera movement during movie recording (page 73). Note, however, that this does not prevent image blur due to subject movement and it makes the field of view narrower. 51 Recording Movie Images and Audio NOTE · Spending a long time using movie recording will cause the camera to become slightly warm to the touch. This is normal and does not indicate malfunction. · The camera also records audio. Note the following points when Microphone shooting a movie. Take care that the microphone is not blocked by your fingers, etc. Good recording results are not possible when the camera is too far away from what you are trying to record. Operating camera buttons while shooting can cause button noise to be picked up in the audio.

· Shooting a very bright subject can cause a vertical band or a pink cast on the monitor screen image. This does not indicate malfunction.



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