



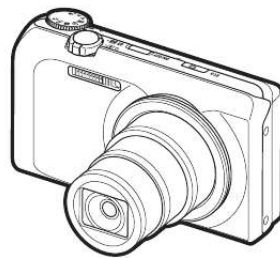
# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO EXILIM EX-H30. You'll find the answers to all your questions on the CASIO EXILIM EX-H30 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-H30**  
**User guide CASIO EXILIM EX-H30**  
**Operating instructions CASIO EXILIM EX-H30**  
**Instructions for use CASIO EXILIM EX-H30**  
**Instruction manual CASIO EXILIM EX-H30**

**CASIO**  
Digital Camera  
**EX-H30**  
**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! [Dynamic Photo](#)

**EXILIM**



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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 \* 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. © is forbidden under copyright laws. · CASIO COMPUTER CO., LTD. © · CASIO COMPUTER CO., LTD. © · CASIO COMPUTER CO., LTD. © · 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%. 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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Store images on your computer. Print images.

Attach images to e-mail. 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.



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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 108 for more information. BEST SHOT Simply select the sample scene you want and the camera sets up automatically. Then all you need to do is press the shutter button for perfect images.

See page 60 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-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 160) Charging complete 14 Quick Start Basics Other Charging Precautions · Use the special charger (BC-130L) to charge the special lithium ion battery (NP130). 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 15 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 161. 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 145). · See page 180 for information about battery life and number of shots. Battery Power Conservation Tips · Entering the Eco mode enables low-power operation (page 17).

· When you do not need to use the flash, select ? (Flash Off) for the flash setting (page 37). · Enable the Auto Power Off and the Sleep features to protect against wasting battery power when you forget to turn off the camera (pages 147, 147). · Select "Off" for "Continuous AF" (page 74). 16 Quick Start Basics Enabling Power Saving (Eco Mode) Enabling power saving reduces the brightness of the monitor screen and switches other camera operations to low-power operation, which allows a charge to last longer and increase the number of images that can be shot between charges. The Eco Mode can be enabled only while Auto is selected as the recording mode (page 31).

1. Press [ECO]. This enters the Eco mode, which is indicated by e on the monitor screen. · Each press of [ECO] toggles the Eco mode between on and off. NOTE · Changing the mode dial setting while the Eco mode is "On" will turn the Eco mode "Off" automatically and change the recording mode to the current mode dial selection. · You can achieve even greater power savings by using the Eco mode in combination with Auto Power Off (page 147) and Sleep (page 147). 17 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 146).

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.



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Display language: Page 146 Date and time: Page 145 18 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 and movies recorded while a memory card is loaded are saved to the memory card. When no memory card is loaded, images and movies are saved to built-in memory. · For information about memory card capacities, see page 176. Supported Memory Cards SD Memory Card SDHC Memory Card SDXC

Memory Card Use one of the above types of memory card. 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 19 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 memory card, see page 162. IMPORTANT! · Never insert anything besides a supported memory card (page 19) 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. 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, SDHC, or SDXC 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 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 23). 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 27). [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. [r] (REC) [p] (PLAY) · 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 147, 147) 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 148). 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 · 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! · 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.

Flash Front lamp Lens 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. 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 (page 31). Auto recording mode icon Monitor screen Shutter button Mode dial [r] (REC) Remaining Snapshot Memory Capacity (page 176) 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.



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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. 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 55 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 41) 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 42) 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. Intelligent AF (Page 42) Face Detection (Page 46) Make-up/Landscape (Pages 80, 81) · 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 86.

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 11). · You also can clear the information to [p] (PLAY) view only the snapshot (page 151). · You can zoom in on the image by sliding the zoom controller towards z (page 90). 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 Snapshots and Movies If memory becomes full, you can delete snapshots and movies 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 106) deletes both the snapshot and the audio file. · The delete menu will not appear if you press [2] ( ) while "On" is selected for the camera's "Ü Disabled" setting (page 148).

You can delete files only while "Off" is selected for "Ü Disabled". 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 [MENU]. Use [8] and [2] to select "Yes" and then press [SET]. · This deletes the files you selected. · To cancel the delete operation, select "No" in step 5 and then press [SET]. 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. 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 41) or Manual Focus (page 39).



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30 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 m Silent The Silent mode disables flash, mutes camera operation tones, and changes other settings to help ensure that shooting does not bother others around you (page 54). s Slide Panorama Simply move the camera as you record and it shoots a series of images that you can stitch together on the monitor screen to produce a sweeping panorama (page 52). 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 60). 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 23). t Auto Standard Auto recording mode. This is the mode you normally should use (page 23). 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 third Control Panel option from the bottom (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. 31 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 third Control Panel option from the bottom (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. 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 third Control Panel item from the bottom (aperture). 3 Use [4] and [6] to change the aperture setting. 4 Use [8] and [2] to select the second Control Panel item from the bottom (shutter speed). 5 Use [4] and [6] to change the shutter speed setting. Aperture value Shutter speed 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 44) 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. 32 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. 1 Image size/Quality\* (pages 34, 79) 2 Flash (page 37) 3 Focus (page 39) 4 AF Area (page 42) 5 ISO sensitivity (page 44) 3. 4.

5. 6 Self-timer (page 45) 7 Face Detection/Make-up/Landscape (pages 46, 80, 81) 8 EV shift (page 47) 9 Date/Time (page 48) \* 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 68). · The Control Panel cannot be displayed when certain BEST SHOT scenes are being used. 33 Snapshot Tutorial Specifying Control Panel Items You can use the following procedure to specify the eight items you want on the Control Panel when using the Auto recording mode. 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 150). 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 34 Snapshot Tutorial . About image sizes The size of an image indicates how many pixels it contains, and is expressed as horizontal pixels x vertical 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 176. · For information about movie image size, see page 79. · For information about resizing existing snapshots, see page 105. 35 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.



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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 105) from the original Description Image Size (Pixels) 16M (4608x3456) 3:2 (4608x3072) 16:9 (4608x2592) 10M (3648x2736) 5M (2560x1920) 3M (2048x1536) VGA (640x480) · The initial factory default image size setting is "16M".

· 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).

36 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.

[2] ( ) When "Flash" is not shown on the Control Panel (page 34) After [8] (DISP) is pressed to clear the information from the monitor screen (page 151) > Auto Flash ? Flash Off < Flash On ¥ Red Eye Reduction 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 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.

A < indicates the flash will fire. · For information about Flash Range, see page 179. 37 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 179) 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. · 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. This function also performs a process that corrects for red-eye after the image is recorded. 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 85) 38 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 General recording Close ups Focus Mode Snapshot Automatic Movies Approximate Focus Range\*1 Snapshot Movies Approximately 5 cm to 9 (infinity) (2.0" to 9") (Wide Angle) Settings Q Auto Focus ` Macro Á Super Macro ) Infinity W Manual Focus Approximately 1 cm to 50 cm Automatic Automatic (0.4" to 19.

7") (Fifth step zoom from the Widest Angle setting) Automatic Approximately 1 cm to 50 cm (0.4" to 19.7") Infinity Approximately 5 cm to 9 (infinity)\*2 (2.0" to 9") (Wide Angle) Close ups Scenery and other distant subjects When you want to focus manually Fixed Manual \*1 The focus range is the distance from the lens surface. \*2 The minimum changes along with the optical zoom setting. 39 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. 40 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.



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· To use focus lock, select "Ū Spot" for the Auto Focus area (page 42).

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 halfpress 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). 41 Snapshot Tutorial Specifying the Auto Focus Area (AF Area) The camera automatically determines the focus point on the Ū Intelligent screen and focuses there (intelligent AF). · Face detection (page 46) operates automatically. Ū Spot This mode takes readings of a small area in the center of the image.

This setting works well with focus lock (page 41). 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. 42 Snapshot Tutorial 5. Press the shutter button the rest of the way down.

"Ū Intelligent" "Ū Spot" or "È Tracking" Focus frame "È Multi" Focus frame Focus frame IMPORTANT! · "È Tracking" cannot be selected for the Auto Focus area while you are using Auto Shutter (page 71). · Selecting "È Tracking" can cause vibration and noise to occur due to lens operation while tracking a subject. This does not indicate malfunction. 43 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 80 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. 44 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 (4fps, 10fps), some BEST SHOT scenes · The Triple Self-timer cannot be used together with the following features. Auto Shutter, CS, Movie, Make-up Mode, Landscape Mode, some BEST SHOT scenes 45 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 third Control Panel option from the bottom (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. IMPORTANT! · · · · The camera performs center focus if it cannot detect a face.

The only focus mode available while face detection is enabled is Auto Focus (AF). 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 · Face detection cannot be used in combination with any of the following features. Some BEST SHOT scenes Movie Recording · The AF area setting (page 42) is ignored while face detection is enabled. 46 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.



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47 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 146) 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, 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 Digital 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. Digitally processes the center of the image to enlarge it.

48 Snapshot Tutorial 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, HD zoom, and Single SR zoom are disabled while time stamping (page 145) is turned on. 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. 49 Snapshot Tutorial 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) Deteriorated image range (digital zoom) IX Optical zoom limit point · 12.5X optical zoom point 75.0X to 199.3X Zoom pointer (Indicates current zoom.) Point from which image deteriorates · This point can be anywhere from 18.8X to 134.8X when Single SR Zoom is enabled, or 12.5X to 90.0X when it is disabled.

. Zoom Icon The appearance of the zoom icon on the monitor screen depends on the zoom factor. Optical zoom HD Zoom Single SR Zoom Digital zoom Not displayed Not displayed ç è 50 Snapshot Tutorial . Zoom Factor The digital zoom factor depends on the image size (page 34) and on whether Single SR Zoom is enabled or disabled. Maximum zoom factor where image deterioration can be suppressed Single SR Zoom: Off 12.5X 12.5X 12.5X 15.8X 22.5X 28.

IX 90.0X Single SR Zoom: On 18.8X 18.8X 18.8X 23.

6X 33.8X 42.1X 134.8X Image size Total maximum zoom factor 75.0X 75.

0X 75.0X 94.6X 134.8X 168.4X 199.3X 16M 3:2 16:9 10M 5M 3M VGA Zooming with Super Resolution (Single SR Zoom) Super resolution technology makes it possible to expand the zoom range in which image deterioration is minimized. For information about the effective zoom factor ranges in which Single SR Zoom is effective, see page 51. 1. 2. 3.

4. In the REC mode, press [MENU]. Use [4] and [6] to select the "Quality" tab. Use [8] and [2] to select "Single SR Zoom" and then press [6]. Use [8] and [2] to select "On" 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. Continuous Shutter, Triple Self-timer, Make-up Mode, some BEST SHOT scenes 51 Snapshot Tutorial Shooting a Panorama Image (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 240 degrees, which is dramatically greater than the physical capabilities of the lens.

· The final panorama image can be one of the two sizes shown below. Slide Direction is Right or Left: 5120x720 pixels Slide Direction is Up or Down: 1280x4320 pixels · Zoom operations are not supporting during Slide Panorama shooting. The zoom setting is fixed at full wide angle. · You can use Slide Panorama to shoot a horizontal image up to approximately 240 degrees and a vertical image up to approximately 180 degrees. · If you shoot a horizontal Slide Panorama image that is less than 240 degrees, the image size will become 60, 120 or 180 degrees.

1. 2. 3. In the REC mode, set the mode dial to s (Slide Panorama). Press [SET] and then use [8] and [2] to select the top Control Panel option (Slide Direction).

Use [4] and [6] to select the direction you are planning to move the camera while shooting, and then press [SET]. You can select one of four directions: Right, Left, Up, or Down. 4. 5. Point the camera at the start of the panorama and half-press the shutter button to allow the camera to focus automatically. Press the shutter button the rest of the way down and a slide cursor will appear on the monitor screen. Slowly move the camera in the direction indicated by the arrow on the screen until the slide cursor reaches the other end of its movement range (i.e. all the way to the right when moving the camera to the right). Slide cursor · The camera will start composing the panorama image internally when the slide cursor reached the other end of the movement range.

· Image composing also will start automatically if you stop moving the camera during panorama shooting. After you stop moving the camera, the message "Busy... Please wait..." appears as the camera processes the image. Wait until this message disappears before using the camera. Image shooting is disabled while the message is displayed.

52 Snapshot Tutorial NOTE · The following conditions are not compatible with Slide Panorama shooting. Subject whose brightness is very different from that of its surroundings due to artificial light, sunlight, etc. Rivers, waves, waterfalls, or other subject with constantly changing patterns Sky, beach, or other subject with continuous patterns Camera too close to the main subject Moving subject · Slide Panorama may stop part way through in the following cases.

Subject or camera movement Camera movement that is too fast or too slow · Shooting a Slide Panorama image after half-pressing the shutter button to perform Auto Focus may not produce the desired results if there are considerable differences in the brightness, color, and/or focus of the individual images. If this happens, try changing the focus position by focusing on a different subject, etc.

· Since a Slide Panorama image is created by joining multiple images together, there may be some roughness at the point where two images are joined. · Shooting under a flickering light source (such as fluorescent lighting) may result in uneven brightness and/or coloring in the final Slide Panorama image. · Shooting in dark surroundings may result in a blurred image or may make Slide Panorama shooting impossible.



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