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You can read the recommendations in the user guide, the technical guide or the installation guide for CANON POWERSHOT SX230 HS. You'll find the answers to all your questions on the CANON POWERSHOT SX230 HS in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CANON POWERSHOT SX230 HS  
User guide CANON POWERSHOT SX230 HS  
Operating instructions CANON POWERSHOT SX230 HS  
Instructions for use CANON POWERSHOT SX230 HS  
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**Manual abstract:**

· *Software Guide* Read when you want to use the included software. C DIGITAL CAMERA Solution Disk Y P O Wrist Strap WS-DC11 Warranty Card · A memory card is not included. · Adobe Reader is required to view the PDF manuals. 2 Read This First Test Shots and Disclaimer Take some initial test shots and play them back to make sure the images were recorded correctly. Please note that Canon Inc., its subsidiaries and affiliates, and its distributors are not liable for any consequential damages arising from any malfunction of a camera or accessory, including memory cards, that results in the failure of an image to be recorded or to be recorded in a way that is machine readable. Warning Against Copyright Infringement The images recorded with this camera are intended for personal use. @@@@ More than 99.99% of the pixels operate to specification, but occasionally non-performing pixels may appear as bright or dark dots. This is not a malfunction and has no effect on the recorded image.

· The LCD monitor may be covered with a thin plastic film for protection against scratches during shipment. If so, remove the film before using the camera. C Y P O Camera Body Temperature Please take care when operating the camera for an extended period as the camera body may become warm. This is not a malfunction. 3 What Do You Want to Do? Shoot Shoot, leaving it to the camera to make settings .

.....  
.....

.....24 Just take pictures (Easy mode).

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

.29 Take good people shots Portraits (p. 65) 4 I Kids and pets (p. 65) C At the beach (p. 67) w Against snow Facial expressions (p. 67) (p. 78) P Shoot various other scenes J S Landscape (p. 65) Night Scene (p. 66) Underwater (p. 67) Shoot with special effects C Y P O O Foliage (p. 67) Low Light (p. 66) Fireworks (p. 67) t Super vivid colors (p. 69) Poster Effect (p. 69) Fish-eye Effect (p. 70) Miniature Effect (p. 70) Toy Camera Effect (p. 71) Monochrome (p. 72) Focus on faces ..

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

....24, 65, 91 Shoot in places where I cannot use the flash (turn off the flash) .....

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

.....54 Take pictures with me in them too (self-timer) ...

.....  
.....

58, 77 Insert the date and time into my shots .....

.....  
.....

.57 Take a picture while shooting a movie ....

.....  
.....



28, 138 1 Shoot/View Movies Shoot movies .....

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

.30, 114 View movies .....

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

..32 Shoot fast moving subjects and play them back in slow motion .....

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

.....117 Print Easily print pictures ..

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

.152 C Y P O E 2 3 Save Save images to a computer ....

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

...33 Other Turn off sounds ..

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



|  |  |
|--|--|
| .....  |  |
| .....  |  |
| ... 52 1 Getting Started .....                         |  |
| .....  |  |
| .....  |  |
| . 13 Charging the Battery....                          |  |
| .....  |  |
| .....  |  |
| .....14 Compatible Memory Cards (Sold Separately)..... |  |
| .....  |  |
| .....  |  |
| .....  |  |
| ..16 Inserting the Battery and Memory Card.....        |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....16 Setting the Date and Time .....                |  |
| .....  |  |
| .....  |  |
| 19 Setting the Display Language.....                   |  |
| .....  |  |
| 21 Formatting Memory Cards .....                       |  |
| .....  |  |
| 22 Pressing the Shutter Button....                     |  |
| .....23 Taking Pictures (Smart Auto)..                 |  |
| .....  |  |
| .....24 Viewing Images .                               |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| 27 Erasing Images.....                                 |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| ..28 Shooting or Viewing Images in Easy Mode...        |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| 29 Shooting Movies .....                               |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| 30 Viewing Movies.....                                 |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| ..32 Transferring Images to a Computer for Viewing...  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....  |  |
| .....33 Accessories .....                              |  |
| .....  |  |
| .....  |  |
| .....  |  |

|       |  |
|-------|--|
| ..... |  |
| ..... | ..38 Separately Sold Accessories .....                                 |
| ..... | ..38 C Y P O 3 Shooting with Commonly Used Functions ...               |
| ..... | .....53 Turning the Flash Off .  |
| ..... |  |
| ..... |  |
| ..... | ..54 Zooming in More Closely on Subjects (Digital Zoom).....           |
| ..... | ..... 55 Inserting the Date and Time..                                 |
| ..... | .....  |
| ..... | .....  |
| ..... | 57 Using the Self-Timer .....  |
| ..... |  |
| ..... | ... 58 Changing the Recording Pixel Setting (Image Size)..             |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | .. 60 Changing the Compression Ratio (Image Quality) ...               |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | ..60 4 Adding Effects and Shooting in Various Conditions ....          |
| ..... | ...63 Making Short Movies Automatically (Movie Digest).....            |
| ..... |  |
| ..... | .....  |
| ..... | .....  |
| ..... | .... 64 Shooting in Various Conditions .....                           |
| ..... |  |
| ..... | .. 65 Shooting in Special Scenes .....                                 |
| ..... | ... 66 Adding Effects and Shooting (Creative Filters) ..               |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | 69 Detecting a Face and Shooting (Smart Shutter) .....                 |
| ..... | .....  |
| ..... | .....  |
| ..... | ..... 75 Capturing the Best Facial Expressions (Best Image Selection). |
| ..... | .....  |
| ..... | .....  |
| ..... | ..... 78 2 Learning More ...   |
| ..... |  |
| ..... | .....  |
| ..... | .....  |
| ..... | .. 41 Components Guide....   |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | ..42 Screen Display...   |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | .....  |
| ..... | 44 Indicator .....   |
| ..... | .....  |

.....45 6 Table of Contents High-Speed Continuous Shooting (High-speed Burst)..

.....  
.....  
.....  
.. 79 Shooting Stitch Assist Images .....

80 Using the GPS Function SX230 HS .....

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

.... 102 5 Choosing Settings Yourself.....

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

....81 Shooting in Program AE .....

.....  
.....

. 82 Turning the Flash On .....

.....

... 82 Adjusting the Brightness (Exposure Compensation) ..

.....

..... 83 Adjusting the White Balance .....

..... 83 Changing the ISO Speed ....

.....  
.....

.. 85 Changing the Aspect Ratio .....

..... 86 Continuous Shooting.....

.....  
.....

..... 87 Changing the Tone of an Image (My Colors) ..

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

... 88 Correcting the Brightness and Shooting (i-Contrast).....

.....  
.....

.... 89 Changing the AF Frame Mode.....

.. 90 Choosing the Subject to Focus On (Tracking AF) .....

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

.... 92 Changing the Focusing Range (Macro) .....

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

.....  
.....

93 Shooting with the AF Lock .....

..... 94 Magnifying the Focal Point.

.....

... 94 Shooting with Servo AF ..



|   |                                      |
|---|--------------------------------------|
|   | .....                                |
|   | .....                                |
| . 95 Shooting in Manual Focus Mode ....                                     | 96 Changing the Metering Method..... |
| .. 97 Shooting with the AE Lock ...   |                                      |
|   | .....                                |
| ..... 97 Shooting with the FE Lock ....                                     |                                      |
|   | .....                                |
| 98 Adjusting the Flash Exposure Compensation.....                           |                                      |
|   | .....                                |
|   | .....                                |
| . 99 Shooting with Slow Synchro ....  |                                      |
|   | .....                                |
| 100 Red-Eye Correction .....  |                                      |
|   | .....                                |
| .. 100 Checking for Shut Eyes ...   |                                      |
|   | .....                                |
| ..... 101 Shooting Using a TV as the Display ..                             |                                      |
|   | .....                                |
|   | .....                                |
|   | .....                                |
| .. 101 6 Getting More Out of Your Camera .....                              |                                      |
|   | .....                                |
|   | .....                                |
|   | .....                                |
| 107 Setting the Shutter Speed .....   |                                      |
| ... 108 Setting the Aperture Value ..                                       |                                      |
|   | .....                                |
| ..... 109 Setting the Shutter Speed and Aperture Value .....                |                                      |
|   | .....                                |
|   | .....                                |
| ... 110 Adjusting the Flash Output .....                                    |                                      |
| ..... 111 7 Using Various Functions for Shooting Movies.....                |                                      |
|   | .....                                |
| ... 113 Shooting Movies in E Mode..   |                                      |
| ..... 114 Changing the Movie Mode ...                                       |                                      |
|   | .....                                |
| ..... 114 Shooting Various Kinds of Movies.                                 |                                      |
| 115 Changing the Image Quality.....   |                                      |
|   | .....                                |
| 116 Shooting Super Slow Motion Movies.....                                  |                                      |
|   | .....                                |
|   | .....                                |
|   | .....                                |
| . 117 Shoot Movies That Look Like a Miniature Model (Miniature Effect)..... |                                      |
|   | .....                                |
|   | .....                                |
|   | .....                                |
| ... 118 AE Lock/Exposure Shift..  |                                      |
|   | .....                                |
|   | .....                                |



.....  
.....  
...146 Trimming.....

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

...147 Adding Effects with the My Colors Function.....

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

...148 Correcting the Brightness (i-Contrast)..

.....  
.....

...149 Correcting the Red-Eye Effect ..

.....150 10 Customizing Camera Settings .....

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

...163 Changing Camera Settings .



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*the battery in the correct direction or it will not properly lock into place. Terminals Battery lock C Label Y P O Close the cover. Insert the memory card. Insert the memory card as shown until it locks into place with a click. Be sure the memory card is oriented correctly. Inserting the memory card in the wrong direction could damage the camera. Close the cover ( ), and press downward as you slide it until it clicks into place ( ). What if [Memory card locked] appears on the screen? SD, SDHC, SDXC memory cards, and Eye-Fi cards have a write-protect tab. If this tab is in the locked position, [Memory card locked] will appear on the screen and you will not be able to take or erase images. 17 Inserting the Battery and Memory Card Removing the Battery and Memory Card Remove the battery. Open the cover and press the battery lock in the direction of the arrow. The battery will pop up. Remove the memory card.*

*Push the memory card in until you hear a click, then slowly release it. The memory card will pop up. Number of Shots per Memory Card Memory Card Number of Shots 4 GB Approx. 1231 · Values are based on the default settings. · The number of shots that can be taken will vary depending on camera settings, the subject and the memory card used.*



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Can you check the number of shots that can be taken? Number of shots that can be taken C Y P O 16 GB Approx. 5042 You can check the number of shots that can be taken when the camera is in a Shooting mode (p. 24). 18 Setting the Date and Time The Date/Time settings screen will appear the first time the camera is turned on. Since the dates and times recorded into your images are based on these settings, be sure to set them.

Turn on the camera. Press the power button. The Date/Time screen will appear. Set the date and time. Press the qr buttons to choose an option. Press the op buttons or turn the  $\hat{A}$  dial to set a value. Once all settings are complete, press the m button. C Y P O Set the home time zone. Press the qr buttons or turn the  $\hat{A}$  dial to choose your home time zone. Press m to complete the setting.

After a confirmation screen appears, the shooting screen will reappear. Pressing the power button will turn off the camera. Complete the setting. Reappearing Date/Time screen Set the correct date and time. If you have not set the date and time and the home time zone, the Date/Time screen will appear each time you turn on the camera. 19 Setting the Date and Time Daylight saving time settings If you choose dial to choose in Step 2 on p. 19 and press the op buttons or turn the  $\hat{A}$ , you will set the time to daylight saving (1 hour ahead). Changing the Date and Time You can change the current date and time settings. Display the menu. Press the n button.

Choose [Date/Time]. Date/Time battery C Change the date and time. Follow Step 2 on p. 19 to adjust the setting. Press the n button to close the menu. Y P O Move the zoom lever to choose the 3 tab. Press the op buttons or turn the  $\hat{A}$  dial to choose [Date/Time], then press the m button. The camera has a built-in date/time battery (backup battery) that allows the date/time settings to be retained for about three weeks after the battery pack has been removed. By inserting a charged battery or connecting an AC adapter kit (sold separately, p. 39) the date/time battery can be charged in about 4 hours even if the camera is not turned on.

If the date/time battery is depleted, the Date/Time screen will appear when you turn the camera on. Follow the steps on p. 19 to set the date and time. You can also automatically update the date and time with the GPS function (p. 106).

SX230 HS 20 Setting the Display Language You can change the language that displays on the screen. Enter Playback mode. Press the 1 button. Display the settings screen. Press and hold the m button, then immediately press the n button.

What if the clock appears when the m button is pressed? The clock will appear if too much time passes between pressing the m button and the n button in Step 2. If the clock appears, press the m button to remove the clock and repeat Step 2. You can also change the display language by pressing the n button to choose [Language] from the 3 tab. C Y P O Set the display language. Press the opqr buttons or turn the  $\hat{A}$  dial to choose a language, then press the m button. Once the display language has been set, the settings screen will close. 21 Formatting Memory Cards Before you use a new memory card or one that has been formatted in other devices, you should format the card with this camera. Formatting (initializing) a memory card erases all data on the memory card. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card. Before formatting an Eye-Fi card (p.

177), be sure to install the software contained on the card to a computer. Display the menu. Press the n button. Choose [Format]. C 22 Y P O Move the zoom lever to choose the 3 tab. Press the op buttons or turn the  $\hat{A}$  dial to choose [Format], then press the m button. Choose [OK]. Press the qr buttons or turn the  $\hat{A}$  dial to choose [OK], then press the m button. Format the memory card. Press the op buttons or turn the  $\hat{A}$  dial to choose [OK], then press the m button to start formatting.

Press the m button when formatting ends and [Memory card formatting complete] appears on the screen. Pressing the Shutter Button Formatting or erasing data on a memory card merely changes the file management information on the card and does not ensure its contents are completely erased. Be careful when transferring or disposing of a memory card. When disposing of a memory card, take precautions such as physically destroying the card to prevent personal information leaks. The total capacity of the memory card displayed in the formatting screen may be less than indicated on the memory card.

Perform a low-level format (p. 165) of the memory card when the camera does not operate properly, the recording/reading speed of a memory card has dropped, when continuous shooting speed slows down, or when movie recording stops suddenly. Pressing the Shutter Button To take images that are in focus, be sure to first press the shutter button lightly (halfway) to focus, then press fully to shoot. C Y P O Press halfway (Press lightly to focus). Press lightly until the camera beeps twice and AF frames appear where the camera focused.

Press fully (Press fully to shoot). The camera plays the shutter sound and takes the shot. Since the shot is being taken while the shutter sound plays, be careful not to move the camera. Does the length of the shutter sound change? Since the time required to shoot differs depending on the scene you want to take, the length of the shutter sound may change. If the camera or subject moves while the shutter sound is playing, the recorded image may be blurry. If you shoot without pressing the shutter button halfway, the image may not be in focus. 23 Taking Pictures (Smart Auto) Since the camera can determine the subject and shooting conditions, you can let it automatically select the best settings for the scene and just shoot. The camera can also detect and focus on faces, setting the color and brightness to optimal levels. Turn on the camera. Press the power button.

The flash will automatically rise and the start-up screen will appear. You can also raise or lower the flash manually (the flash does not fire when lowered). Enter A mode. C Focus range (approx.) Zoom bar Y P O Set the mode dial to A. When you point the camera toward the subject, the camera will make a slight noise as it determines the scene. The icon for the determined scene will appear in the upper right of the screen. The camera will focus on detected subjects and display frames on them. Black bars will appear on the left and right sides of the screen. These areas will not be recorded when shooting. Moving the zoom lever toward i (telephoto) will zoom in on your subject, making it appear larger. Moving the lever toward j (wide angle) will zoom out from your subject, making it appear smaller. (The zoom bar showing the zoom position appears on the screen.



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) Compose the shot. 24 Taking Pictures (Smart Auto) Focus.

Press the shutter button halfway to focus. When the camera focuses, it will beep twice and AF frames will appear where the camera focused. Several AF frames will appear when the camera focuses on more than one point. AF Frame C What if..

· Y P O Shoot. Press the shutter button fully to shoot. The camera will play the shutter sound and shoot. The flash will automatically fire in low light conditions if it has been raised. The image will appear on the screen for approximately two seconds. You can take a second picture even while an image is displayed by pressing the shutter button again. · What if the color and brightness of the images do not turn out as expected? The scene icon (p. 185) that appears on the screen may not match the actual scene. If this happens, try shooting in G mode (p.

81). · What if white and gray frames appear when you point the camera toward a subject? A white frame appears on the face or subject that the camera detected as the main subject, while gray frames appear on other detected faces. The frames will follow the subjects within a certain range (p. 91). If the subject moves, however, the gray frames will disappear, leaving only the white frame. 25 Taking Pictures (Smart Auto) · What if a frame does not appear on the subject you want to shoot? The subject may not be detected, and frames may appear on the background. If this happens, try shooting in G mode (p. 81). · What if a blue frame appears when you press the shutter button halfway? A blue frame appears when a moving subject is detected; the focus and exposure will continuously adjust (Servo AF). · What if a flashing appears? Attach the camera to a tripod so that the camera does not move and blur the image. · What if the camera does not play any sounds? Pressing the l button while turning on the camera power will turn off all sounds except for warning sounds. To turn the sounds on, press the n button to choose [Mute] from the 3 tab, then press the qr buttons to choose [Off]. · What if the image comes out dark even if the flash fired when shooting? The subject is too far away for the flash to reach. The effective flash range is approximately 75 cm (2.5

5 11.5 ft.) at maximum wide angle (j), and approximately 1.0 2.0 m (3.

3 6.6 ft.) at maximum telephoto (i). · What if the camera beeps once when the shutter button is pressed halfway? Your subject may be too close. When the camera is at maximum wide angle (j), move about 5 cm (2.0 in.) or more away from your subject and shoot. Move about 1 m (3.3 ft.) or more away when the camera is at maximum telephoto (i).

· What if the lamp lights when the shutter button is pressed halfway? To reduce red-eye and to assist in focusing, the lamp may light when shooting in dark areas. · What if the h icon blinks when you try to shoot? The flash is charging. You can shoot when recharging ends. C Y P O What if an icon appears in the upper right of the screen? The icon for the determined scene will appear in the upper right of the screen. For details on the icons that appear, see "Scene Icons" (p. 185). Choosing the subject to focus on (Tracking AF) After pressing the o button and displaying , point the camera so that is on the subject you want to focus on. Press and hold the shutter button halfway to display a blue frame where focus and exposure will be maintained (Servo AF). Press the shutter button fully to shoot. 26 Viewing Images You can view the images you have taken on the screen.

Enter Playback mode. Press the l button. The last image you took will appear. Choose an image. Pressing the q button or turning the  $\hat{A}$  dial counter-clockwise will cycle through the images from newest to oldest.

Pressing the r button or turning the  $\hat{A}$  dial clockwise will cycle through the images from oldest to newest. The images change more quickly if you keep the qr buttons pressed, but they will appear coarse. The lens will retract after approximately 1 minute elapses. If the flash has been raised, the flash will lower.

Pressing the l button again while the lens is retracted will turn off the power.

Switching to Shooting mode Pressing the shutter button halfway, or turning the mode dial in Playback mode switches the camera to Shooting mode. C Y P O 27 Erasing Images You can choose and erase images one at a time. Please note that erased images cannot be recovered. Exercise adequate caution before erasing an image. Enter Playback mode. Press the l button. The last image you took will appear. Choose an image to erase. Press the qr buttons or turn the  $\hat{A}$  dial to display an image to erase. C 28 Erase the image.

Y P O After pressing the m button, press the op buttons or turn the  $\hat{A}$  dial to choose a, then press the m button again. [Erase?] appears on the screen. Press the qr buttons or turn the  $\hat{A}$  dial to choose [Erase], then press the m button. The displayed image will be erased. To exit instead of erasing, press the qr buttons or turn the  $\hat{A}$  dial to choose [Cancel], then press the m button. Shooting or Viewing Images in Easy Mode In Easy mode, operational instructions are displayed on the screen, and the camera is set so that only the buttons, the zoom lever and the movie button (p. 30) explained on this page are functional. This prevents incorrect operation of the camera, allowing even beginners to take and view worry-free pictures. Shooting Set the mode dial to 9. Follow Steps 3 5 on pp.

24 25 to shoot (no sound will play). Press the r button to turn off the flash. ! will appear on the screen. Pressing the r button again turns on the flash and appears on the screen. The flash will automatically fire in low light conditions.

Since the flash will not fire when lowered, you cannot change settings even if you press the r button. To set the flash to , first raise it manually, then press the r button to change the setting. Viewing C Y P O Press the l button, then press the qr buttons or turn the  $\hat{A}$  dial to switch images. Press the l button, then press the m button, and all the shots you have taken will display for about 3 seconds each. Press the m button again to stop the slideshow.

To erase an image, choose the image to erase and press the p button. Press the qr buttons or turn the  $\hat{A}$  dial to choose [Erase], then press the m button. 29 Shooting Movies The camera will determine the subject and shooting conditions, and select the best settings for the scene. Choose A mode. Set the mode dial to A. Remaining Time Compose the shot. C Elapsed Time Y P O Moving the zoom lever toward i will zoom in on your subject, making it appear larger. Moving the lever toward j will zoom out from your subject, making it appear smaller. Press the movie button. The display will switch to full-screen, and the area displayed on the screen will be recorded.



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The camera will beep once, recording will start, and [ Rec ] and the elapsed time will appear on the screen. Once shooting begins, take your finger off the movie button. If you change the composition of your shot during shooting, the focus, brightness and tone will automatically adjust. Shoot. 30 Shooting Movies Microphones Do not touch the microphones while shooting. Do not press any buttons other than the movie button while shooting. The sound the buttons make will be recorded in the movie. Stop shooting. Press the movie button again. The camera will beep twice and stop shooting the movie.

The movie will record to the memory card. Shooting will automatically stop when the memory card fills. Zooming while shooting Pressing the zoom lever while shooting will zoom in on or out from the subject. However, operation sounds will be recorded. · When the mode dial is set to A, the icon for the determined scene will appear (p.

185). "When Moving" icons will not appear, however. Under certain conditions, the icon that appears may not match the actual scene. · If you change the composition while shooting and the white balance is not optimal, press the Movie button to stop recording, then start recording again (only when the image quality is fixed at (p. 116)).

· Movies can be shot by pressing the movie button even when the mode dial is in positions other than A (p. 113). · When the mode dial is set to E, you can adjust each setting for shooting movies (p. 113). C Y P O Shooting Time Memory Card Shooting Time 4 GB Approx. 14 min. 34 sec. 16 GB Approx. 59 min. 40 sec.

· Shooting times are based on default settings. · Maximum clip length is approx. 29 min. 59 sec. · Recording may stop even if the maximum clip length has not been reached on some memory cards. SD Speed Class 6 or higher memory cards are recommended. 31 Viewing Movies You can view the movies you have shot on the screen. Enter Playback mode. Press the 1 button. The last image you took will appear.

appears on movies. Choose a movie. Press the qr buttons or turn the Å dial to choose a movie, then press the m button. Play the movie. C 32 Y P O Press the op buttons or turn the Å dial to choose (Play Movie), then press the m button.

The movie will play. If you press the m button, the movie will pause and the movie control panel will appear. Press the qr buttons or turn the Å dial to choose (Play), then press the m button to resume playback. Press the op buttons to adjust the volume. After the movie finishes, appears.

How can I play back movies on a computer? Install the included software (p. 34). · When watching a movie on a computer, frames may drop, it may not play smoothly, and the audio may stop suddenly depending on the computer's capabilities. · If you use the supplied software to copy the movie back onto the memory card, you can play back the movie smoothly with the camera. For enhanced playback you can also connect the camera to a TV. Transferring Images to a Computer for Viewing You can use the included software to transfer images you have shot with the camera to a computer for viewing. If you are already using software included with another Canon-brand compact digital camera, install the software from the included CD-ROM, overwriting your current installation. System Requirements Windows OS Windows 7 Windows Vista Service Pack 1 and 2 Windows XP Service Pack 3 The above OS should be pre-installed on computers with built-in USB ports. Pentium 1.3 GHz or higher (still images), Core2 Duo 2.

6 GHz or higher (movies) Windows 7 (64 bit): 2 GB or more Windows 7 (32 bit), Windows Vista (64 bit, 32 bit): 1 GB or more (still images), 2 GB or more (movies) Windows XP: 512 MB or more (still images), 2 GB or more (movies) USB ZoomBrowser EX: 200 MB or more CameraWindow: 150 MB or more\* Map Utility: 50 MB or more SX230 HS Movie Uploader for YouTube: 30 MB or more PhotoStitch: 40 MB or more 1,024 x 768 pixels or higher Computer model CPU RAM Interface Free Hard Disk Space Display \* For Windows XP, Microsoft .NET Framework 3.0 or later (max. 500 MB) must be installed.

Installation may take some time depending on your computer's capabilities. C Y P O 33 Transferring Images to a Computer for Viewing Macintosh OS Computer model CPU RAM Mac OS X (v10.5 v10.6) The above OS should be pre-installed on computers with built-in USB ports. Intel Processor (still images), Core 2 Duo 2.6 GHz or higher (movies) Mac OS X v10.

6: 1 GB or more (still images), 2 GB or more (movies) Mac OS X v10.5: 512 MB or more (still images), 2 GB or more (movies) USB ImageBrowser: 250 MB or more CameraWindow: 150 MB or more Map Utility: 50 MB or more SX230 HS Movie Uploader for YouTube: 30 MB or more PhotoStitch: 50 MB or more 1,024 x 768 pixels or higher Interface Free Hard Disk Space Display Preparations Windows Vista and Mac OS X (v10.5) are used for these explanations. C Install the Software. Windows Y P O Place the CD in the computer's CDROM drive.

Place the supplied CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) into the computer's CD-ROM drive. Begin installation. Click [Easy Installation] and follow the on-screen instructions to proceed with the installation. If the [User Account Control] window appears, follow the on-screen instructions to proceed. 34 Transferring Images to a Computer for Viewing When the installation finishes, click [Restart] or [Finish]. Remove the CD-ROM. Remove the CD-ROM when your desktop screen appears. Macintosh Place the CD in the computer's CDROM drive. Place the supplied CD-ROM (DIGITAL CAMERA Solution Disk) (p. 2) into the computer's CD-ROM drive. Double-click the on the CD. Click [Install], and follow the on-screen instructions to proceed with the installation. C Y P O Begin installation. Connect the camera to the computer.

Turn off the camera. Open the cover and insert the included interface cable's smaller plug (p. 2) firmly into the camera terminal in the direction shown. Insert the interface cable's larger plug into the computer. For connection details, refer to the user guide provided with the computer. 35 Transferring Images to a Computer for Viewing Turn on the camera. Press the 1 button to turn on the camera. Open CameraWindow. Windows Click [Downloads Images From Canon Camera using Canon CameraWindow]. CameraWindow will appear.

If CameraWindow does not appear, click the [Start] menu and choose [All Programs], followed by [Canon Utilities], [CameraWindow] and [CameraWindow]. CameraWindow will appear when you establish a connection between the camera and computer. If CameraWindow does not appear, click the CameraWindow icon on the Dock (the bar which appears at the bottom of the desktop). Macintosh For Windows 7, use the following steps to display CameraWindow. Click on the task bar.

In the screen that appears, click the link to modify the program.



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Choose [Downloads Images From Canon Camera using Canon CameraWindow] and click [OK]. Double click . C Y P O 36 Transferring Images to a Computer for Viewing Transfer and View Images Click [Import Images from Camera], and then click [Import Untransferred Images]. All images not previously transferred will transfer to the computer.

Transferred images will be sorted by date and saved in separate folders in the Pictures folder. Close CameraWindow when image transfer is complete. Turn off the camera and unplug the cable. For details on how to view images using a computer, refer to the Software Guide. You can transfer images even without using the image transfer function in the included software by simply connecting your camera to a computer. There are, however, the following limitations. · It may take a few minutes from when you connect the camera to the computer until you can transfer images. · Images shot in the vertical orientation may be transferred in the horizontal orientation. · Protection settings for images may be lost when transferred to a computer. · There may be problems transferring images or image information correctly depending on the version of the operating system in use, the file size, or the software in use.

· GPS log files (p. 104) may not transfer correctly. SX230 HS · Some functions in the included software may not be available, such as editing movies, and transferring images to the camera. C Y P O 37 Accessories Supplied with Camera Wrist Strap WS-DC11 Battery Pack NB-5L with Terminal Cover\* Battery Charger CB-2LX/CB-2LXE\* DIGITAL CAMERA Solution Disk Stereo AV Cable AVC-DC400ST\* Interface Cable IFC-400PCU\* Memory Card C TV HDMI Cable HTC-100 Y P O USB card reader High-Definition TV \*Also available for purchase separately. Windows/Macintosh Canon-Brand PictBridge Compliant Printers Separately Sold Accessories The following camera accessories are sold separately. Some accessories are not sold in some regions, or may no longer be available. Power Supplies Battery Charger CB-2LX/CB-2LXE A charger for charging Battery Pack NB5L. Battery Pack NB-5L Rechargeable lithium-ion battery. 38 Separately Sold Accessories AC Adapter Kit ACK-DC30 This kit lets you power the camera using household power. Recommended for powering the camera for an extended period of time or when connecting to a computer or printer.

Cannot be used to charge the camera battery. Using Accessories Abroad The battery charger and the AC adapter kit can be used in regions that have 100 240 V (50/60 Hz) AC power. If the plug does not fit the outlet, use a commercially available plug adapter. Do not use electrical transformers for foreign travel as they will cause damage. Flash Other Accessories C Y P O High-Power Flash HF-DC1 This externally mounted flash can be used to capture photographic subjects that are too distant for the built-in flash to illuminate.

Waterproof Case WP-DC42 Use this case to take underwater shots at depths of up to 40 meters (130 ft.), or to shoot in the rain, at the beach, or on the ski slopes. Waterproof Case Weight WW-DC1 When using the Waterproof Case to take photographs underwater, the weights prevent the case from floating. 39 Separately Sold Accessories HDMI Cable HTC-100 Use this cable to connect the camera to the HDMITM terminal on a high-definition TV set. Printers Canon-Brand PictBridge Compliant Printers By connecting your camera to a Canonbrand PictBridge compliant printer, you can print your images without having to use a computer.

For more information, visit your nearest SELPHY PIXMA Canon retailer. series series Use of genuine Canon accessories is recommended. This product is designed to achieve excellent performance when used with genuine Canon accessories. Canon shall not be liable for any damage to this product and/or accidents such as fire, etc., caused by the malfunction of non-genuine Canon accessories (e.g., a leakage and/or explosion of a battery pack). Please note that this warranty does not apply to repairs arising out of the malfunction of non-genuine Canon accessories, although you may request such repairs on a chargeable basis. C Y P O 40 2 Learning More This chapter explains the parts of the camera and what appears on the screen, as well as the basic operating instructions. C Y P O 41 Components Guide Lamp (pp.

58, 75, 171) Microphone (p. 31) Lens Zoom Lever Shooting: i (Telephoto) / j (Wide Angle) (pp. 24, 30, 55) Playback: k (Magnify) / g (Index) (pp. 124, 128)

Mode Dial P, Tv, Av, M, Mode Choose settings yourself to take various types of pictures (p. 82). Use the mode dial to change the Shooting mode. C Y P O Shutter Button (p. 23) GPS Signal Receiver (p. 103) SX230 HS Speaker Flash (pp. 54, 82) Tripod Socket DC Coupler Terminal Cover (p.

176) Memory Card / Battery Cover (p. 16) Strap Mount (p. 13) Auto Mode You can leave it to the camera to select settings for fully automatic shooting (pp. 24, 30). Easy Mode You can shoot just by pressing the shutter button (p.

29). Movie Digest Mode You can make a short movie of a day just by taking still images (p. 64). Movie Mode For shooting movies (p. 114).

You can use the largest possible portion of the screen to shoot movies (p. 116). Even if the mode dial is set to a position other than Movie mode, movies can be shot by pressing the movie button (p. 115). Creative Filters Mode You can add various effects to images when shooting (p. 69). Scene Mode You can shoot with the optimum settings for the scene (pp. 65, 66). If you turn the mode dial while in Playback mode, the camera will switch to Shooting mode. 42

Components Guide Screen (LCD Monitor) (pp.

44, 184, 186) Power Button (p. 19) Mode Dial (p. 42) Indicator (p. 45) A/V OUT (Audio/Video Output) / DIGITAL Terminal (pp. 35, 132, 152) HDMI Terminal (p. 133) n Button (p. 47) l (Display) Button (p. 44) l (Playback) Button (pp. 27, 123) Control Dial C Y P O Movie Button (pp. 30, 113) b (Exposure Compensation) (p.

83) / o Button e (Macro) (p. 93) / f (Manual Focus) (p. 96) / q Button Control Dial (see below) m FUNC./SET Button (p. 46) h (Flash) (pp.

82, 100) / r Button Q (Self-Timer) (p. 58) / p Button Turning the control dial allows you to perform operations such as choosing items or switching images. Except for a few operations, the same operations are possible with the opqr buttons. If you touch the control dial in a Shooting mode, the function assigned to the position you touch will appear on the screen. 43 Screen Display Switching the Display You can change the screen display using the l button. Refer to p. 184 for details on information that appears on the screen. Shooting Information Display No Information Display Playback No Information Display

Simple Information Display You can also switch the display by pressing the l button while the image displays right after shooting.



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However, Simple Information Display is not available. You can change the display that appears first by pressing the *n* button, then choosing [Review Info] from the 4 tab (p. 172). C Y P O Detailed Information Display Focus Check Display (p. 131) Screen Display in Dark Shooting Conditions The display automatically brightens when shooting in dark conditions, allowing you to check the composition (Night Display function). However, the brightness of the image on the screen, and the brightness of the actual image recorded may be different. Screen noise may appear and the movement of the subject may appear somewhat jagged on the screen.

This has no effect on the recorded image. Overexposure Warning during Playback In Detailed Information Display (p. 186), overexposed areas of the image flash on the screen. 44 Indicator Histogram during Playback High Low Dark Bright The graph that appears in Detailed Information Display (p. 186) is called the histogram. The histogram shows the distribution of brightness in an image horizontally, and the amount of brightness vertically. When the graph approaches the right side, the image is bright, but when it approaches the left side, the image is dark, and in this way you can judge the exposure. If you press the *o* button in Detailed Information Display, you can check the location information (latitude, longitude, elevation) and shooting date recorded to still images and movies (p. 104) when [GPS] is set to [On]. The displayed contents, from top to bottom, are latitude, longitude, elevation and UTC.

GPS Information Display SX230 HS · When a signal is not correctly received from a GPS satellite, [---] will appear in place of numerical values for items where positioning data is incomplete. · UTC stands for "Coordinated Universal Time", and is approximately equivalent to Greenwich Mean Time. C Y P O Indicator The indicator on the back of the camera (p. 43) will light or blink depending on the camera's status. Colors Green Status Lights Blinks Operation Status When connected to a computer (p. 35), display off (p. 169) During camera start-up, recording/reading/transmitting image data, when shooting long exposures (pp. 108, 110), or while the logger function is operating (p. 104) SX230 HS · When the indicator blinks green, do not turn off the power, open the memory card slot/battery cover, shake or jolt the camera.

These actions may corrupt the image data or cause the camera or memory card to malfunction. 45 FUNC. Menu Basic Operations Commonly used functions can be set with the FUNC. menu. The menu items and options differ depending on the Shooting mode or Playback mode (pp. 188 191, 197). Display the FUNC. menu. Press the *m* button. Choose a menu item.

Press the *op* buttons or turn the  $\hat{A}$  dial to choose a menu item, then press the *m* or *r* button. Choosing some menu items changes the screen to display further menu options. Available Options Menu Items C 46 Y P O Choose an option. Press the *op* buttons or turn the  $\hat{A}$  dial to choose an option. You can also choose settings by pressing the *l* button on options that display. To return to the menu items, press the *q* button. Complete the setting. Press the *m* button. The shooting screen will reappear and the setting you chose will display on the screen. MENU Basic Operations Various functions can be set from the menus. The menu items are organized under tabs, such as for shooting (4) and playback (1). The options differ depending on the Shooting mode and the Playback mode (pp. 192 197). Display the menu. Press the *n* button.

Choose a tab. Move the zoom lever or press the *qr* buttons to choose a tab. C Y P O Choose an item. Choose an option. Press the *op* buttons or turn the  $\hat{A}$  dial to choose an item.

Some items require you to press the *m* or *r* button to display a submenu in which you change the setting. Press the *qr* buttons to choose an option. Press the *n* button to restore the normal screen. Complete the setting. 47 Changing the Sound Settings You can silence or adjust the volume of camera sounds. Muting Sounds Display the menu. Press the *n* button. Choose [Mute]. Move the zoom lever to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Mute], then press the *qr* buttons to choose [On].

Press the *n* button to restore the normal screen. · You can also mute camera sounds by holding down the *l* button and turning on the power. · If you mute camera sounds, the sound will also be muted when playing back movies (p. 32). If you press the *o* button while playing back a movie, the sound will play back, and you can adjust the volume with the *op* buttons. C Y P O 48 Changing the Sound Settings Adjusting the Volume Display the menu. Press the *n* button.

Choose [Volume]. Move the zoom lever to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Volume], then press the *m* button. C Y P O Change the volume. Press the *op* buttons or turn the  $\hat{A}$  dial to choose an item, then press the *qr* buttons to adjust the volume. Press the *n* button twice to restore the normal screen. 49 Adjusting the Screen Brightness The screen brightness can be adjusted in two ways. Using the Menu Display the menu. Press the *n* button. Choose [LCD Brightness]. Move the zoom lever to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [LCD Brightness]. Adjust the brightness.

Press the *qr* buttons to adjust the brightness. Press the *n* button twice to restore the normal screen. Using the *l* Button C Y P O Press the *l* button for more than 2 seconds. The screen increases to maximum brightness regardless of the setting in the 3 tab. Press the *l* button again for more than 2 seconds to return the screen to the original brightness. · The next time you turn on the camera, the screen will be at the brightness setting chosen from the 3 tab. · When you have set the brightness to its highest setting in the 3 tab, you cannot change the brightness with the *l* button. 50 Returning the Camera to Default Settings When you have mistakenly changed a setting, you can reset the camera to the default settings. Display the menu. Press the *n* button.

Choose [Reset All]. Move the zoom lever to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Reset All], then press the *m* button. C Y P O Reset the settings. Press the *qr* buttons or turn the  $\hat{A}$  dial to choose [OK], then press the *m* button. The camera will reset to the default settings. Are there functions that cannot be reset? · The [Date/Time] (p. 20), [Language] (p. 21), [Video System] (p. 132), [Time Zone] (p.

169), and the image registered in [Start-up Image] (p. 166) in the 3 tab. · The recorded custom white balance data (p. 84). · Colors that were chosen in Color Accent (p.

73) or Color Swap (p. 74). · The scene mode chosen in K (p.



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66). · The shooting mode chosen in (p.

69). · The Movie mode (p. 113). 51 Power Saving Function (Auto Power Down) To save battery power, the screen turns off, and the camera shuts down automatically when it is not operated for a certain time. Power Saving during Shooting The screen will turn off approximately 1 minute after you stop operating the camera. After about 2 more minutes, the lens will retract and the power will turn off. When the screen has turned off but the lens has not yet retracted, pressing the shutter button halfway (p. 23) turns on the screen and shooting can continue. Power Saving during Playback The power will turn off approximately 5 minutes after you stop operating the camera. · You can turn off the power saving function (p.

168). · You can adjust the time before the screen turns off (p. 169). Clock Functions You can check the current time. C Y P O Press and hold the m button. The current time appears. If you hold the camera vertically while using the clock function, it will switch to vertical display. Press the qr buttons or turn the Å dial to change the display color. Press the m button again to cancel the clock display. When the camera power is off, press and hold the m button, then press the power button to display the clock.

52 3 Shooting with Commonly Used Functions This chapter explains how to use common functions, such as the self-timer, and how to turn off the flash. · This chapter assumes that the camera is set to A mode. When shooting in another mode, check which functions are available in that mode (pp. 188 195). C Y P O

53 Turning the Flash Off You can shoot with the flash turned off.

Press the r button. Choose !. Press the qr buttons or turn the Å dial to choose !, then press the m button. Once set, ! will appear on the screen. To turn the flash back on, follow the steps above to choose .

What if a flashing When you press the shutter button halfway in low light conditions where camera shake is likely, a flashing will appear on the screen. Attach the camera to a tripod to prevent it from moving. · You can also lower the flash manually so that it does not fire (p. 24). · If the flash is lowered, the setting screen will not appear even if you press the r button. C appears? Y P O 54 Zooming in More Closely on Subjects (Digital Zoom) You can use the digital zoom to zoom up to approximately 56x maximum, and capture subjects that are too far away for the optical zoom to enlarge. However, depending on the recording pixel setting (p. 60) and zoom factor, the images may appear coarse (the zoom factor will appear in blue). Move the zoom lever toward i. Hold the lever until zooming stops.

Zooming stops at the largest possible zoom factor without image deterioration. The zoom factor will appear on the screen when you release the zoom lever.

Zoom Factor Turning off the digital zoom To turn off the digital zoom, press the n button to choose [Digital Zoom] from the 4 tab, then choose [Off]. The focal length when using the optical zoom and digital zoom together is 28 1568 mm, and 28 392 mm when using the optical zoom alone (all focal lengths are 35mm film equivalent). C Y P O Move it toward i again. The digital zoom will zoom in even further on the subject. 55 Zooming in More Closely on Subjects (Digital Zoom) Digital Tele-Converter The focal length of the lens can be increased by approximately 1.5x or approximately 2.0x. This enables a faster shutter speed and less chance of camera shake than the zoom (including digital zoom) used by itself at the same zoom factor.

However, a recording pixel setting (p. 60) of or will cause images to appear coarse (the zoom factor will appear in blue). Display the menu. Press the n button. Choose [Digital Zoom].

Move the zoom lever to choose the 4 tab. Press the op buttons or turn the Å dial to choose [Digital Zoom]. Press the qr buttons to choose a magnification.

Press the n button to complete the setting and restore the shooting screen. The view will be enlarged and the zoom factor will appear on the screen.

To return to standard digital zoom, choose [Digital Zoom] and the [Standard] option. C 56 Choose the setting. Y P O · The respective focal lengths when using [1.5x] and [2.0x] are 42.0 588 mm and 56.0 784 mm (35mm film equivalent). · The digital tele-converter cannot be used together with the digital zoom. · The shutter speeds may be the same when at maximum telephoto (i), and when zoomed in on the subject using Step 2 on p. 55.

Inserting the Date and Time You can insert the shooting date and time in the lower right corner of an image. Once inserted, however, they cannot be deleted. Be sure to check beforehand that the date and time are correctly set (p. 19). Display the menu. Press the n button. Choose [Date Stamp]. Move the zoom lever to choose the 4 tab. Press the op buttons or turn the Å dial to choose [Date Stamp]. Press the qr buttons to choose [Date] or [Date & Time].

Press the n button to complete the setting and restore the shooting screen. Once set, [DATE] will appear on the screen. The shooting date or time will be recorded in the image's lower right corner. To restore to the original setting, choose [Off] in Step 3. C Y P O Shoot.

Choose the setting. You can insert and print the shooting date in images which do not have an embedded date and time as follows. However, if you do this for images with an embedded date and time, the date and time may be printed twice. · Use the DPOF print settings (p. 159) to print.

· Use the included software to print. Refer to the Software Guide for details. · Print using printer functions (p. 151). 57 Using the Self-Timer The self-timer can be used to shoot a group photo that includes the photographer. The camera will shoot approximately 10 seconds after the shutter button is pressed. Press the p button. Choose Ò. C 58 Shoot. Y P O Press the op buttons or turn the Å dial to choose Ò, then press the m button.

Once set, Ò will appear on the screen. Press the shutter button halfway to focus on the subject, then press it fully. When the self-timer starts, the lamp blinks and the self-timer sound plays. Two seconds before the shutter releases, the lamp and sound speed up (the lamp remains lit when the flash will fire). To cancel shooting with the self-timer after the countdown has started, press the p button. To restore the original setting, choose in Step 2. You can change the delay and number of shots (p. 59). Using the Self-Timer Using the Self-Timer to Prevent Camera Shake The camera will shoot approximately 2 seconds after the shutter button is pressed, preventing any camera shake that occurs when pressing the shutter button. Choose Í.

Follow Step 2 on p. 58 to choose Í. Once set, Í will appear on the screen.



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Follow Step 3 on p. 58 to shoot.

*Customizing the Self-Timer* You can set the delay (0-30 seconds) and the number of shots (1-10 shots). C Y P O Choose  $\$$ . Follow Step 2 on p. 58 to choose  $\$$ , then press the n button immediately. Press the op buttons to choose [Delay] or [Shots].

Press the qr buttons or turn the  $\hat{A}$  dial to choose a value, then press the m button. Once set,  $\$$  will appear on the screen. Follow Step 3 on p. 58 to shoot. Choose the settings. What if the number of shots is set to two or more shots? · Exposure and white balance settings are set with the first shot. · If the flash fires or you set a high number of shots, the shooting interval may take longer than usual. · If the memory card fills, shooting stops automatically. When you set the delay for more than 2 seconds, the lamp and self-timer sound speed up 2 seconds before the shutter releases (the lamp remains lit when the flash will fire). 59

*Changing the Recording Pixel Setting (Image Size)* You can choose from 4 recording pixel settings.

Choose the recording pixel setting. After pressing the m button, press the op buttons or turn the  $\hat{A}$  dial to choose , then press the m button again. Choose an option. Press the op buttons or turn the  $\hat{A}$  dial to choose an option, then press the m button. The setting will appear on the screen. To restore the original setting, choose in Steps 1-2. *Changing the Compression Ratio (Image Quality)* You can choose from the following 2 compression ratios (image quality): (Fine), (Normal). C Y P O Choose the compression ratio setting. After pressing the m button, press the op buttons or turn the  $\hat{A}$  dial to choose , then press the m button again. Choose an option.

Press the op buttons or turn the  $\hat{A}$  dial to choose an option, then press the m button. The setting will appear on the screen. To restore the original setting, choose in Steps 1-2. *60 Changing the Compression Ratio (Image Quality) Approximate Values for Recording Pixels and Compression Ratio (for 4:3 Aspect Ratios)*

| Recording Pixels                                | Compression Ratio | Single Image Data Size (Approx. KB) | 3084                       | 1474                    | 1620            | 780  | 558   |       |       |       |        |
|---|-------------------|-------------------------------------|----------------------------|-------------------------|-----------------|------|-------|-------|-------|-------|--------|
| Number of Shots per Memory Card (Approx. shots) | 4 GB (Large)      | 12 M/4000 x 3000 (Medium 1)         | 6 M/2816 x 2112 (Medium 2) | 2 M/1600 x 1200 (Small) | 0.3 M/640 x 480 | 1231 | 2514  | 2320  | 4641  | 6352  | 12069  |
|   | 20116             | 30174                               | 16 GB                      | 5042                    | 10295           | 9503 | 19007 | 26010 | 49420 | 82367 | 123550 |

· The values in the table are measured according to Canon standards and may change depending on the subject, memory card and camera settings. · The values in the table are based on 4:3 aspect ratio. If the aspect ratio is changed (p. 86), more images can be shot because the data size per image will be smaller than with 4:3 images. However, since 16:9 images have a setting of 1920 x 1080 pixels, their data size will be larger than 4:3 images. *Approximate Values for Paper Size (for 4:3 Aspect Ratios)* A2 (16.5 x 23.4 in.) A3 A5 (11.7 x 16.5 5.8 x 8.3 in.) 5 x 7 in.

*Postcard size 3.5 x 5 in.* C Y P O 150 84 278 For sending images as e-mail attachments. 61 C 62 Y P O 4 *Adding Effects and Shooting in Various Conditions* This chapter explains how to add effects and how to shoot in various conditions. C Y P O 63 *Making Short Movies Automatically (Movie Digest)* You can make a short movie of a day just by taking still images. Each time you take a picture, the scene just before taking your shot will be recorded as a movie. All the movies recorded that day will be saved as a single file. Enter mode. Set the mode dial to . Shoot.

Press the shutter button fully to shoot a still image. A movie of approx. 2-4 sec. will be recorded just before the image is taken. What if a movie is not recorded? If you take a picture just after turning on the camera, choosing otherwise operating the camera, a movie may not be recorded.

*Viewing movies made with Movie Digest* You can select movies made in . Since you are also shooting movies when you shoot still images, the battery will be depleted more quickly than in A mode. · The image quality will be fixed at for movies shot in mode. · In the following cases, movies will be saved as separate files even if they were shot on the same day with mode. - If the clip file size reaches 4 GB or the recording time reaches approximately 1 hour - If the movie is protected (p. 135) - If the Time Zone setting is changed (p.

169) - When a new folder is created (p. 168) C Y P O mode or mode by date for viewing (p. 125). · If you operate the camera while shooting a movie, the sounds made will be recorded in the movie. · The camera will not play sounds, such as when pressing the shutter button halfway, using the controls or the self-timer (p. 58). 64 *Shooting in Various Conditions* The camera will select the necessary settings for the conditions in which you wish to shoot when you choose the matching mode. Choose a Shooting mode. Set the mode dial to a Shooting mode. Shoot.

*I Take portraits (Portrait) J Take landscapes (Landscape) C Y P O Produces a soft effect when photographing people. Lets you shoot majestic landscapes with a real sense of depth. C Take shots of kids and pets (Kids&Pets) Lets you capture subjects that move around, such as children and pets, without missing photo opportunities. At maximum wide angle, move approximately 1 m (3.3 ft.) or more away from your subject. At maximum telephoto, move approximately 3 m (9.8 ft.) or more away from your subject and shoot. In C mode, images may appear coarse because the ISO speed (p.*

85) is increased to match the shooting conditions. 65 *Shooting in Special Scenes* The camera will select the necessary settings for the conditions in which you wish to shoot when you choose the matching mode. Enter K mode. Set the mode dial to K. Choose a Shooting mode.

After pressing the m button, press the op buttons or turn the  $\hat{A}$  dial to choose , then press the m button again. Press the op buttons or turn the  $\hat{A}$  dial to choose a Shooting mode, then press the m button. C 66 *Shoot. Take nightscapes without using a tripod (Handheld NightScene) Lets you take beautiful snapshots of city nightscapes by combining several continuous shots to reduce camera shake and noise. When using a tripod, you should shoot in A mode (p.*

24). Y P O *Take shots in low light conditions (Low Light) Lets you take shots in dark places with reduced camera shake and subject blur. Shooting in Special Scenes w Take shots of people at the beach (Beach) Lets you take shots of brightly lit people on sandy beaches where the reflected sunlight is strong. S Shoot underwater (Underwater) Lets you take natural-colored shots of aquatic life and underwater scenery when used with a waterproof case (sold separately) (p.*

39). O *Take shots of foliage (Foliage) Lets you shoot trees and leaves, such as new growth, autumn leaves or blossoms, in vivid colors.*



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