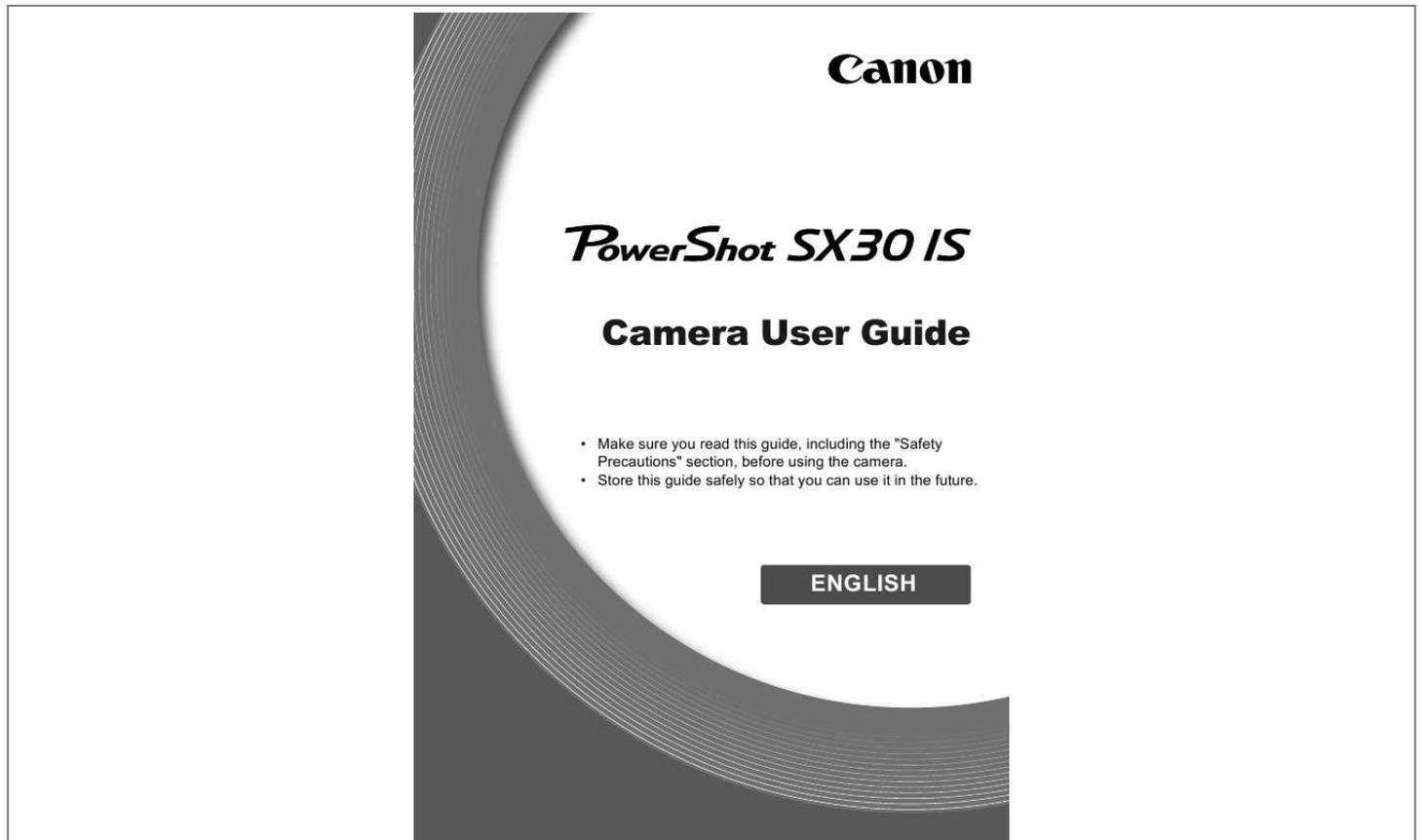




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CANON POWERSHOT SX30 IS. You'll find the answers to all your questions on the CANON POWERSHOT SX30 IS 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 SX30 IS  
User guide CANON POWERSHOT SX30 IS  
Operating instructions CANON POWERSHOT SX30 IS  
Instructions for use CANON POWERSHOT SX30 IS  
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**Manual abstract:**

· Software Guide Read when you want to use the included software. · A memory card is not included. · Adobe Reader is required to view the PDF manuals. Microsoft Word/ Word Viewer can be installed to view the Word manuals (required only for manuals for the Middle East). 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. @@@@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. 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 ..

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.....sh, be careful not to cover it with your fingers or clothing. This could result in burns or damage to the flash. · Avoid using, placing or storing the product in the following places. - Places subject to strong sunlight. - Places subject to temperatures above 40 °C (104 °F). - Humid or dusty areas.

These could cause leakage, overheating or an explosion of the battery, resulting in electrical shock, fire, burns or other injuries. High temperatures may cause deformation of the camera or battery charger casing. · The slideshow transition effects may cause discomfort when viewed for prolonged periods. Caution Denotes the possibility of damage to the equipment. · Do not aim the camera at bright light sources (the sun, etc.). Doing so may damage the image sensor. 10 Safety Precautions · When using the camera on a beach or at a windy location, be careful not to t the battery and prolong its life, do not charge it for longer than 24 hours continuously. 14 Charging the Battery Approximate Number of Shots That Can Be Taken Number of Shots LCD Monitor On\* Viewfinder On Approx. 370 Approx.

400 Approx. 10 hrs. Playback Time \* The number of shots that can be taken is based on the Camera & Imaging Products Association (CIPA) measurement standard. · Under some shooting conditions, the number of shots that can be taken may be less than mentioned above. Battery Charge Indicator An icon or message will appear on the screen indicating the battery's charge state.

Display Sufficient charge. Slightly depleted, but sufficient. (Blinking red) "Change the battery pack." Nearly depleted. Charge the battery. Depleted. Recharge the battery. Summary Using the battery and charger effectively · Charge the battery on the day, or the day before, it will be used. Charged batteries continue to discharge naturally even if they are not used. Attach the cover to a charged battery so that the o mark is visible. · How to store the battery for long periods: Deplete and remove the battery from the camera. Attach the terminal cover and store the battery. Storing a battery for long periods of time (about a year) without depleting it may shorten its life span or affect its performance. · The battery charger can also be used when abroad. The charger 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. · The battery may develop a bulge. This is a normal characteristic of the battery and does not indicate a problem. However, if the battery bulges to the point where it will no longer fit into the camera, please contact a Canon Customer Support Help Desk. · If the battery is quickly depleted even after charging, it has reached the end of its life span. Purchase a new battery. 15 Compatible Memory Cards (Sold Separately) · SD memory cards (2 GB and less)\* · SDHC

memory cards (more than 2 GB, up to and including 32 GB)\* · SDXC memory cards (more than 32 GB)\* · MultiMediaCards · MMCplus memory cards · HC MMCplus memory cards · Eye-Fi Cards \* This memory card complies with the SD standards. Some cards may not operate properly depending on the brand of card used. Depending on your computer's OS version, SDXC memory cards may not be recognized when using a commercially available card reader. Check to make sure that your OS supports this function beforehand. About Eye-Fi Cards This product is not guaranteed to support Eye-Fi card functions (including wireless transfer). In case of an issue with an Eye-Fi card, please check with the card manufacturer. Also note that an approval is required to use

Eye-Fi cards in many countries or regions. Without approval, use of the card is not permitted.

If it is unclear whether the card has been approved for use in the area, please check with the card manufacturer. Inserting the Battery and Memory Card Insert the included battery and a memory card (sold separately). Check the card's write-protect tab. If the memory card has a write-protect tab, you will not

be able to record images if the tab is in the locked position. Slide the tab up until you hear a click.

16 Inserting the Battery and Memory Card Open the cover. Slide the cover ( ) and open it ( ). Insert the battery. Insert the battery as shown until it locks into place with a click. Be sure to insert the battery in the correct Terminals direction or it will not properly lock into place. 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 Label correctly. Inserting the memory card in the wrong

direction could damage the camera. Close the cover.

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 and 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. Approximate Number of Shots per Memory Card Memory Card Number of Shots 4 GB 1058 16 GB 4334 · 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. Can you check the number of shots that can be taken? You can check the number of shots that can be taken when the camera is in a Shooting mode (p. 25). Number of shots that can be taken 18 Using the Screen Open the screen. Open the screen ( 180°( ).

). ), and rotate it forward Close the screen ( Adjusting the position of the screen Approx. 180° Approx. 90° ·You can freely adjust the angle and orientation of the screen as you like for the shooting conditions. ·Always keep the screen closed with it facing the camera body when the camera is not in use.

Approx. 175° · When the camera is on, opening the screen will turn the screen on and the viewfinder off. Closing the screen with it facing the camera body will turn the screen off and the viewfinder on. · In a Shooting mode, if the screen is opened and rotated toward the lens, the image will be flipped from left to right (mirror image).



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To cancel the reverse display function, press the *n* button, choose the 4 tab and [Reverse Disp.], then press the *qr* buttons to choose [Off]. 19 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 ON/OFF 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 *Â* dial to set a value. Complete the setting. Press the *m* button. Once the date and time have been set, the Date/Time screen will close. Pressing the ON/OFF button will turn off the camera. Reappearing Date/Time screen Set the correct date and time. If you have not set the date and time, the Date/Time screen will appear each time you turn on the camera.

Daylight saving time settings If you choose in Step 2 and press the *op* buttons or turn the *Â* dial and choose , you will set the time to daylight saving (1 hour ahead). 20 Setting the Date and Time Changing the Date and Time You can change the current date and time settings. Display the menus. Press the *n* button. Choose [Date/Time] in the 3 tab.

Press the *qr* buttons to choose the 3 tab. Press the *op* buttons or turn the *Â* dial to choose [Date/Time], then press the *m* button. Change the date and time. Follow Steps 2 and 3 on p. 20 to adjust the setting.

Pressing the *n* button will close the menu. Date/Time battery · 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] menu will appear when you turn the camera on. Follow the steps on p. 20 to set the date and time. 21 Setting the Display Language You can change the language that displays on the screen. Enter Playback mode. Press the *l* button.

Display the settings screen. Press and hold the *m* button, then immediately press the *n* button. Set the display language. Press the *opqr* buttons or turn the *Â* dial to choose a language, then press the *m* button. Once the display language has been set, the settings screen will close. 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, choosing the 3 tab, and choosing the [Language] menu item. 22 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. 172), be sure to install the software contained on the card to a computer. Display the menu. Press the *n* button.

Choose [Format]. Press the *qr* buttons to choose the 3 tab. Press the *op* buttons or turn the *Â* dial to choose [Format], then press the *m* button. Choose [OK]. Press the *qr* buttons or turn the *Â* dial to choose [OK], then press the *m* button.

Format the memory card. Press the *op* buttons or turn the *Â* dial to choose [OK], then press the *m* button. The memory card will be formatted. Complete formatting. When formatting ends, [Memory card formatting complete] will appear on the screen. Press the *m* button. 23 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.

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. 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 according to 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. 24 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 ON/OFF button. The start-up screen will appear. Choose A mode.

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 faces and display frames on them. Compose the shot. Moving the zoom lever toward *i* Focus range (approx.) Zoom bar (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.) If you move the zoom lever all the way toward *j* (wide angle) or *i* (telephoto), you will zoom quickly. If you move it slightly, you will zoom slowly. Focus. Press the shutter button halfway to focus. 25 Taking Pictures (Smart Auto) 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.

If [Raise the flash] appears on the screen, AF Frame you should use the flash to shoot. Raise the flash manually. When you are not using the flash, manually lower it until it closes (the flash will turn off). Shoot. Press the shutter button fully to shoot. The camera will play the shutter sound and shoot.



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The flash will automatically fire in low light conditions if it has been raised. The image will appear on the screen for about two seconds. You can take a second picture even while an image is displayed by pressing the shutter button again. 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. 180). What is the rectangular gray frame? This is the area that will be recorded in a movie. Movies can be shot simply by pressing the movie button, no matter what position the mode dial is in (p. 107).

To hide the frame, choose [Custom Display], then [Shooting Info] and remove the check mark (p. 160). 26 Taking Pictures (Smart Auto) What if...  
· What if the color and brightness of the images do not turn out as expected? The scene icon (p. 180) that appears on the screen may not match the actual scene. If this happens, try shooting in G mode (p. 71).  
· What if the screen is off even when the camera is turned on? The display is set to the viewfinder. Press the l button several times to restore the display to the screen.  
· What if white and gray frames appear when you point the camera toward a subject? When faces are detected, a white frame appears on the face of the main subject, while gray frames appear on other detected faces. The frames will follow the subjects within a certain range (p. 84). If the main subject moves, however, the gray frames will disappear, leaving only the white frame.

· 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).  
· flashes on the screen? 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] in 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 50 cm 5.8 m (1.6 19 ft.) at maximum wide angle (j), and approximately 1.4 2.

8 m (4.6 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. Move the zoom lever toward i and hold it until the lens stops moving. The camera will be at its maximum telephoto setting and you will be able to focus on subjects that are about 1.4 m (4.6 ft.) or more away from the end of the lens.

· 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. 27 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 q or turning the A dial counterclockwise will cycle through the images in the reverse order they were taken, from the newest image to the oldest. Pressing r or turning the A dial clockwise will cycle through images in the order they were taken, 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.

Pressing the l button again while the lens is retracted will turn off the power. Switching to Shooting mode  
· Pressing the shutter button halfway while in Playback mode switches the camera to Shooting mode. 28 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 A dial to display an image to erase. Erase the image. Press the a button. Press the qr buttons or turn the 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 A dial to choose [Cancel], then press the m button. 29 Shooting Movies The camera can automatically select all settings so that you can shoot movies just by pressing the movie button. The audio will record in stereo. Choose A mode.

Set the mode dial to A. Remaining Time Compose the shot. 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. Shoot. Press the movie button. Elapsed Time 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. 30 Shooting Movies Do not touch the microphone while shooting.

Do not press any buttons other than the Microphone 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. Magnifying the subject 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. 180). "When Moving" icons and "With Strong Facial Shadows" icons will not appear, however. Under certain conditions, the icon that appears may not match the actual scene.  
· Movies can be shot by pressing the movie button even when the mode dial is in positions other than A (p. 107).  
· When the mode dial is set to E, you can set each setting for shooting movies (p. 107). Estimated Shooting Times Memory Card 4 GB 16 GB 20 min. 43 sec. 1 hr.

24 min. 54 sec. Shooting Time  
· 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 4 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 l button. The last image you took will appear. appears on movies. Choose a movie.



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Press the *qr* buttons or turn the *Á* dial to choose a movie, then press the *m* button. The movie control panel will appear on the screen. Play the movie. Press the *qr* buttons or turn the *Á* dial to choose button. (Play), then press the *m* The movie will play. If you press the *m* button, you can pause or resume playback. Press the *op* buttons to adjust the volume. After the movie finishes, appears. 32 Transferring Images to a Computer for Viewing What if you can't 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 1.66 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 Windows XP: 512 MB or more (still images), 1 GB or more (movies) USB ZoomBrowser EX: 200 MB or more CameraWindow: 150 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. 33 Transferring Images to a Computer for Viewing Macintosh OS Computer model CPU RAM Mac OS X (v10.4 v10.6) The above OS should be pre-installed on computers with built-in USB ports.

PowerPC G4/G5 or Intel Processor (still images), Core Duo 1.66 GHz or higher (movies) Mac OS X v10.4 v10.5: 512 MB or more (still images), 1 GB or more (movies) Mac OS X v10.6: 1 GB or more USB ImageBrowser: 250 MB or more CameraWindow: 150 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. Install the Software. Windows Place the CD in the computer's CD-ROM 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. Begin installation.

on the CD. Double-click the Click [Install], and follow the on-screen instructions to proceed with the installation. Connect the camera to the computer. Turn off the camera. Open the cover and insert the small plug of the included interface cable (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]. Macintosh 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). 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. Choose [Downloads Images From Canon Camera using Canon CameraWindow] and click [OK].

Double click . 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. When [Image import complete].

] appears, click [OK], then click [X] to close CameraWindow. 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. · Some functions in the included software may not be available, such as editing movies, and transferring images to the camera. 37 Accessories Supplied with Camera DIGITAL CAMERA Solution Disk Battery Pack NB-7L Battery Charger with Terminal Cover\* CB-2LZ/CB-2LZE\* Neck Strap NS-DC11 Stereo AV Cable AVC-

DC400ST\* Lens Cap Interface Cable IFC-400PCU\* (includes hot shoe cap) Case for Hot Shoe Cap \*Also available for purchase separately. Memory Card USB card reader Windows/Macintosh Canon-Brand PictBridge Compliant Printers TV HDMI Cable HTC-100 High-Definition TV 38 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-2LZ/CB-2LZE An adapter for charging Battery Pack NB-7L. Battery Pack NB-7L Rechargeable lithium-ion battery.

AC Adapter Kit ACK-DC50 This kit lets you power the camera using household power.



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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. 39 Separately Sold Accessories Flash Speedlite 270EX/430EX II/580EX II A shoe-mounted flash that allows for a wide range of flash photography. Speedlite 430EX and 580EX may also be used. Speedlite Bracket SB-E2 Prevents unnatural shadows from appearing on the sides of objects when shooting from a vertical position, and is useful for shooting portraits. The Off Camera Shoe Cord OC-E3 is supplied with this bracket.

Speedlite Transmitter ST-E2 This allows the wireless control of slave (remote) Speedlite flashes (except the Speedlite 270EX). Other Accessories HDMI Cable HTC-100 Use this cable to connect the camera to the HDMITM terminal on a high-definition TV set. Lens Hood LH-DC60 Prevents extraneous light from entering the lens and causing flares or ghosting, which reduce image quality. 40 Separately Sold Accessories Filter Adapter FA-DC67A This adapter is required for attaching a 67mm filter. Canon-brand Lens Filter (67 mm dia.

) Protects the lens and allows you to shoot with various effects. 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 Canon retailer. SELPHY series Inkjet Printers 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. 41 42 2 Learning More This chapter explains the parts of the camera and what appears on the screen, as well as the basic operating instructions. 43 Components Guide Zoom Lever Shooting: i (Telephoto) / j (Wide Angle) (pp. 25, 30, 58) Playback: k (Magnify) / g (Index) (pp. 120, 125) Shutter Button (p. 24) Strap Mount (p.

13) Mode Dial Flash (pp. 26, 72) Hot Shoe Cap (p. 168) Microphone (p. 31) h (Flash) Button (p. 72) Speaker Lamp (pp. 61, 67, 68, 80, 81, 158, 159) Focal Length (approx.) Lens Lens Hood / Lens Filter Mount (p. 167) Tripod Socket Memory Card / Battery Cover (p. 17) DC Coupler Cable Port (p. 166) Mode Dial Use the mode dial to change the Shooting mode.

P, Tv, Av, M, Cl, C2 Mode Choose settings yourself to take various types of pictures (p. 72). Movie Mode Choose settings yourself to shoot movies (p. 107). Even if the mode dial is set to a position other than Movie mode, movies can be shot by pressing the movie button (p.

30). Auto Mode You can leave it to the camera to select settings for fully automatic shooting (pp. 25, 30). Scene Mode You can shoot with the best settings for the scene or add various effects and shoot (pp. 62, 63).

44 Components Guide Screen (LCD Monitor) (pp. 19, 46, 179, 181) (Short Cut) (p. 162) / c (Direct Print) (p. 144) Button Diopter Adjustment Dial (p. 52) Viewfinder (p. 46) Movie Button (pp. 30, 107) Indicator (p. 47) ON/OFF Button (p. 20) (Zoom Framing Assist) (p. 91) / d (Jump) (p.

121) Button HDMI Terminal (p. 128) l (Playback) Button (pp. 28, 119) A/V OUT (Audio/Video Output) / DIGITAL Terminal (pp. 35, 127, 144) (AF Frame Selector) (pp. 85, 88) / a (Single Image Erase) Button (p. 29) n Button (p. 49) l (Display) Button (p. 46) e (Macro) (p. 73) / f (Manual Focus) (p. 89) / q Button b (Exposure Compensation) (p.

73) / o Button - (p. 76) / r Button m FUNC./SET Button (p. 48) Q (Self-Timer) (pp. 61, 80, 81) / p Button Control Dial Control Dial 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. 45 Screen Display Switching the Display You can change the screen display using the l button. Refer to p. 179 for details on information that appears on the screen. Opening the screen with the power on will turn the screen on, and turn the viewfinder off.

Closing the screen so that it faces inward will turn the screen off, and turn the viewfinder on (p. 19). Shooting LCD Monitor (Screen) Viewfinder Display 1 Display 2 Display 1 Display 2 Playback No Information Display Simple Information Display Detailed Information Display Focus Check Display (p. 124) You can also switch the display by pressing the l button while the image displays right after shooting. However, Simple Information Display is not available. You can change the display that appears first by pressing the n button, then choosing [Review info] in the 4 tab (p. 160). 46 Indicator 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.

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. 46), overexposed areas of the image flash on the screen. Histogram during Playback High The graph that appears in "Detailed Low Dark Bright Information Display" (p. 46) 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. The histogram can also be displayed while shooting (p. 160). Indicator The indicator on the back of the camera (p.

45) will light or blink depending on the camera's status. Colors Green Status Lights Blinks Operation Status When the camera is on.

Recording/reading/transmitting image data. When the indicator blinks green, data is being recorded/read or various information is being transmitted. 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. 47 FUNC. Menu Basic Operations You can set commonly used functions using the ø menu.



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The menu items and options differ depending on the Shooting mode (pp. 182–183).

Choose a Shooting mode. Set the mode dial to the desired shooting mode. Display the  $\phi$  menu. Press the *m* button. Choose a menu item. Press the *op* buttons to choose a menu item. The available options for the menu item appear in the lower part of the screen. Available Options Menu Items Choose an option. Press the *qr* 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 .

Complete the setting. Press the *m* button. The shooting screen will reappear and the setting you chose will display on the screen. 48 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. 184–187). Display the menu. Press the *n* button. Choose a tab.

Press the *qr* buttons, or move the zoom lever left or right to choose a tab. Choose an item. 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. Choose an option.

Press the *qr* buttons to choose an option. Complete the setting. Press the *n* button to restore the normal screen. 49 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]. Press the *qr* buttons 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. Adjusting the Volume Display the menu. Press the *n* button. Choose [Volume]. Press the *qr* buttons to choose the 3 tab.

Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Volume], then press the *m* button. 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. 50 Changing the Screen Brightness The screen brightness can be changed in two ways. You can set the brightness of the screen and the viewfinder separately. (Press the *l* button to switch to the desired display before making settings). Using the Menu Display the menu. Press the *n* button. Choose [LCD Brightness].

Press the *qr* buttons to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [LCD Brightness]. Change the brightness. Press the *qr* buttons to change the brightness. Press the *n* button twice to restore the normal screen.

Using the *l* Button Press the *l* button for more than one second. The screen increases to maximum brightness regardless of the setting in the 3 tab. Pressing the *l* button again for more than one second will return the screen to the original brightness. · The next time you turn on the camera, the screen will be at the brightness setting chosen in 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.

51 Adjusting the Viewfinder You can adjust the viewfinder so that the display is clearly visible (Dioptric adjustment). Set the viewfinder display. Press the *l* button several times until the viewfinder turns on (p. 46). Adjust the diopter. Adjust the dial while looking through the viewfinder. Adjustments of -4.0 to +1.0 m-1 (dpt) can be made. 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 the camera is last operated. 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. 24) turns on the screen and shooting can continue. Power Saving during Playback The power will turn off approximately 5 minutes after the camera is last operated. · You can turn off the power saving function (p. 155). · You can adjust the time before the screen turns off (p. 156). 52 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]. Press the *qr* buttons to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Reset All], then press the *m* button.

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. 21) in the 3 tab, [Language] (p. 22), [Video System] (p. 127), [Time Zone] (p. 156), and the image registered in [Start-up Image] (p. 153). · The saved data for custom white balance (p. 77). · Colors that were chosen in Color Accent (p. 103) or Color Swap (p. 104). · The scene mode chosen in K (p.

63). · The Movie mode (p. 108). 53 Low Level Memory Card Formatting Perform low level formatting when [Memory card error] appears, the camera does not operate properly, or you think that the recording/reading speed of a memory card has dropped. As you cannot retrieve the erased data, exercise adequate caution before formatting the memory card. Display the menu. Press the *n* button. Choose [Format]. Press the *qr* buttons to choose the 3 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Format], then press the *m* button.

Choose [Low Level Format]. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Low Level Format], then press the *qr* buttons to display . Press the *opqr* buttons or turn the  $\hat{A}$  dial to choose [OK], then press the *m* button. Start the low level format. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [OK], then press the *m* button.

Low level formatting starts. When low level formatting ends, [Memory card formatting complete] will appear. 54 Clock Functions Complete the low level format. Press the *m* button. · Low level formatting may take longer than standard formatting (p.

23), since all recorded data is erased. · You can stop a low level format of a memory card by choosing [Stop]. When stopping low level formatting, the data will be erased but the memory card can be used without problem. Clock Functions You can check the current time. 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  $\hat{A}$  dial to change the display color.



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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 ON/OFF button to display the clock.

55 56 3 Shooting with Commonly Used Functions This chapter explains how to shoot in different conditions, as well as how to use common functions, such as the self-timer. · This chapter assumes the camera is set to A mode for "Zooming in More Closely on Subjects (Digital Zoom)" (p. 58) to "Using the Self-Timer" (p. 61). When shooting in a mode other than A, check which functions are available in that mode (pp. 182-185). · "Shooting in Various Conditions" (p. 62) to "Take Shots That Look Like a Miniature Model (Miniature Effect)" (p. 70) assumes that the corresponding mode has been chosen. 57 Zooming in More Closely on Subjects (Digital Zoom) You can use the digital zoom to zoom up to approximately 140x and capture subjects that are too far away for the optical zoom to enlarge.

The images may appear coarse, however, depending on the recording pixel setting (p. 74) and the zoom factor used. Move the zoom lever toward *i*. Hold the lever until zooming stops. The zoom will stop when the largest possible zoom factor without image deterioration has been reached, and the zoom factor will appear when you release the zoom lever.

Zoom Factor Move it toward *i* again. The digital zoom will zoom in even further on the subject. What if the zoom factor appears in blue? Images shot at zoom factors that appear in blue will be coarse. Turning off the digital zoom To turn off the digital zoom, press the *n* button to choose [Digital Zoom] in the 4 tab, then choose [Off]. The focal length when using the optical zoom and digital zoom together is 24 3360 mm, and 24 840 mm when using the optical zoom alone (all focal lengths are 35mm film equivalent).

58 Zooming in More Closely on Subjects (Digital Zoom) Digital Tele-Converter The focal length of the lens can be increased by approx. 1.7x or approx. 2.1x. 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. The images may appear coarse, however, depending on the combination of recording pixel (p. 74) and digital tele-converter settings used. Choose [Digital Zoom]. Press the *n* button.

Press the *qr* buttons to choose the 4 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Digital Zoom]. Accept the setting. Press the *qr* buttons to choose a magnification. Pressing the *n* button will 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. What if the zoom factor appears in blue? Using this function at a recording pixel setting of , deterioration (the zoom factor will appear in blue). or will cause image · The respective focal lengths when using [1.7x] and [2.1x] are 40.8 1428 mm and 50.4 1764 mm (35mm film equivalent). · The digital tele-converter cannot be used together with the digital zoom. 59 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. 20). Choose [Date Stamp]. Press the *n* button.

Press the *qr* buttons to choose the 4 tab. Press the *op* buttons or turn the  $\hat{A}$  dial to choose [Date Stamp]. Accept the setting. Press the *qr* buttons to choose [Date] or [Date & Time]. Pressing the *n* button will restore the shooting screen. Once set, [DATE] will appear on the screen. Shoot. 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 2. 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. 147) to print. · Use the included software to print. Refer to the Software Guide for details. · Print using printer functions. Refer to the Personal Printing Guide for details. 60 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  $\hat{O}$ . Press the *op* buttons or turn the  $\hat{A}$  dial to choose  $\hat{O}$ , then press the *m* button. Once set,  $\hat{O}$  will appear on the screen. Shoot. 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 timer after countdown has started, press the *p* button. To restore the original setting, choose in Step 2. You can change the delay time and number of shots (p.

81). 61 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 the desired Shooting mode. Shoot. I Take portraits (Portrait) Produces a soft effect when photographing people. J Take landscapes (Landscape) Lets you shoot majestic landscapes with a real sense of depth. Take shots of moving subjects (Sports) Shoots continuous images while focusing automatically. At maximum wide angle setting you will be able to focus on subjects that are about 1 m (3.3 ft.

) or more away from the end of the lens, and at maximum telephoto setting you will be able to focus on subjects that are about 10 m (33.8 ft.) or more away from the end of the lens. In mode, images may appear coarse because the ISO speed (p. 76) is increased to match the shooting conditions. 62 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 the Shooting mode. After pressing the *m* button, press the *op* buttons to choose .

Press the *qr* buttons or turn the  $\hat{A}$  dial to choose a Shooting mode, then press the *m* button. Shoot. Take shots in low light conditions (Low Light) Lets you can shoot in dark places with reduced camera shake and subject blur. A recording pixel setting of will display, and the image will be fixed at 1600 x 1200 pixels.

63 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.

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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*P Take shots of people in snow (Snow) Lets you take bright, natural-colored shots of people against snowy backgrounds. t Take shots of fireworks (Fireworks) Lets you take shots of fireworks in vivid colors. In t mode, attach the camera to a tripod to prevent the camera from moving and blurring the image. @ @161).*

*64 Shooting in Special Scenes Adding Effects and Shooting Shoot images with vivid colors (Super Vivid) Lets you take shots with vivid, intense colors. Take posterized shots (Poster Effect) Lets you take shots that look like an old poster or illustration. Since you may not achieve the expected results with images shot in and , try taking some test shots first. 65 Detecting a Smile and Shooting The camera will shoot, even without pressing the shutter button, when it detects a smile. Choose . , Follow Steps 1 2 on p. 63 to choose then press the l button. Press the qr buttons or turn the Å dial to choose , then press the l button. The camera will enter shooting stand-by, and [Smile Detection on] will appear on the screen. Point the camera at a person.*

*Each time the camera detects a smile it will shoot after the lamp lights. Pressing the p button will pause smile detection. Press the p button again to resume smile detection. What if a smile is not detected? Smiles are easier to detect if the subject faces the camera, and opens their mouth enough to show some teeth when smiling. Changing the number of shots After choosing in Step 1, press the op buttons. · You should switch to another mode when you finish shooting, or the camera will continue taking shots each time the camera detects a smile. · You can also shoot by pressing the shutter button. 66 Using the Wink Self-Timer Point the camera at a person and press the shutter button fully. The camera will shoot approximately two seconds after it detects a wink. Choose . , Follow Steps 1 2 on p. 63 to choose then press the l button. Press the qr buttons or turn the Å dial to choose , then press the l button. Compose the shot and press the shutter button halfway. Confirm that a green frame appears around the face of the person who will wink.*

*Press the shutter button fully. The camera will enter shooting stand-by, and [Wink to take picture] will appear on the screen. The lamp will blink and the self-timer sound will play. Face the camera and wink. The shutter will release approximately 2 seconds after a wink is detected from the person with a frame around the person's face.*

*To cancel the countdown, press the p button. What if a wink is not detected? · Wink a bit slowly. · A wink may not be detected if eyes are covered by hair or a hat, or when wearing glasses. Changing the number of shots After choosing in Step 1, press the op buttons. 67 Using the Face Self-Timer · Shutting both eyes will also be detected as a wink. · If a wink is not detected, the shutter will release approximately 15 seconds later. · If there are no people in the shot when the shutter button is pressed fully, the camera will shoot after a person enters the shot and winks. Using the Face Self-Timer The shutter will release approximately two seconds after the camera detects a new face (p. 84). You can use this when the photographer wants to be in the image, such as a group photo.*

*Choose . Follow Steps 1 2 on p. 63 to choose , then press the l button. Press the qr buttons or turn the Å dial to choose , then press the l button. Compose the shot and press the shutter button halfway. Make sure a green frame appears on the face focused on and white frames appear on other faces. The camera will enter shooting stand-by, and [Look straight at camera to start count down] will appear on the screen. The lamp will blink and the self-timer sound will play.*

*Press the shutter button fully. Join the subjects and look at the camera.*

*When the camera detects a new face, the lamp and sound will speed up (the lamp remains lit when the flash will fire), and two seconds later the shutter will release. To cancel shooting with the timer after countdown has started, press the p button. 68 Shoot with the Effects of a Fish-Eye Lens (Fish-eye Effect) Changing the number of shots After choosing in Step 1, press the op buttons. Even if your face is not detected after joining the subjects, the shutter will release approximately 15 seconds later. Shoot with the Effects of a Fish-Eye Lens (Fish-eye Effect) Lets you shoot with the distorting effect of a fish-eye lens.*

*Choose . . Follow Steps 1 2 on p. 63 to choose Choose an effect level. Press the l button.*

*[Effect Level] will appear on the screen. Press the qr buttons or turn the Å dial to choose an effect level, then press the l button. You can check the effect on the screen. Shoot. Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first. 69 Take Shots That Look Like a Miniature Model (Miniature Effect) Blurs chosen portions in the top and bottom of an image to produce the effect of a miniature model. Choose . . Follow Steps 1 2 on p. 63 to choose A white frame (the area that will not be blurred) appears on the screen.*

*Choose the area to keep in focus. Press the l button. Move the zoom lever to change the frame size, and press the op buttons to change the frame position. Pressing the l button restores the shooting screen. Shoot. · If you press the m button in Step 2, the horizontal/vertical orientation of the frame will switch, and you can use the qr buttons to change the frame position when it is displayed vertically. · Holding the camera vertically will change the orientation of the frame. · Since you may not achieve the expected results depending on the shooting conditions, try taking some test shots first. Modes for other scenes In addition to the modes explained here, the following scene modes are also available: · T Color Accent (p. 103) · Y Color Swap (p.*

*104) · xvStitch Assist (p. 106) 70 4 Choosing Settings Yourself In this chapter you will learn how to use the various functions in G mode to progressively advance your shooting skills. · This chapter assumes that you have set the mode dial to G. · G stands for Program AE. · Before attempting to shoot using a function explained in this chapter in modes other than G mode, check if the function is available in those modes (pp.*

*182 185). 71 Shooting in Program AE You can choose the settings for various functions to suit your preferences. AE stands for Auto Exposure. The focusing range is approximately 5 cm (2.0 in.*

*) infinity at maximum wide angle (j), and approximately 1.4 m (4.6 ft.) infinity at maximum telephoto (i). Enter G mode. Set the mode dial to G.*



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