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You can read the recommendations in the user guide, the technical guide or the installation guide for SANYO XACTI VPC-CA9. You'll find the answers to all your questions on the SANYO XACTI VPC-CA9 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SANYO XACTI VPC-CA9
User guide SANYO XACTI VPC-CA9
Operating instructions SANYO XACTI VPC-CA9
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Instruction manual SANYO XACTI VPC-CA9

SANYO

INSTRUCTION MANUAL

VPC-CA9EX
VPC-CA9
VPC-CA9GX

Dual Camera

Xacti HD
(with instruction)



Important note

This manual explains how to safely operate the VPC-CA9EX, VPC-CA9 and VPC-CA9GX.
Any information regarding only one of these products will be labeled as such.

Please read these instructions carefully before using the camera.
Make sure to read and understand the separate booklet "SAFETY MANUAL".
Keep this manual in a safe place for later reference.



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Manual abstract:

@@@Wash hands after handling. i This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: h Reorient or relocate the receiving antenna. h Increase the separation between the equipment and receiver. h Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. h Consult the dealer or an experienced radio/TV technician for help. i Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Declaration of Conformity Model number: VPC-CA9 Trade Name: SANYO Responsible party: SANYO FISHER COMPANY Address: 21605 Plummer Street, Chatsworth, California 91311 Telephone No.: (818) 998-7322 This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. i English FOR CANADIAN USERS i This Class B digital apparatus complies with Canadian ICES-003. FOR EU USERS The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and/or reused. The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

Note: If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead In the European Union there are separate collection systems for used electrical and electronic equipment, batteries and accumulators. Please, dispose of them correctly at your local community waste collection/ recycling centre.

Please, help us to conserve the environment we live in! SANYO FISHER Sales (Europe) GmbH Stahlgruberring 4, D-81829 München, Germany SANYO Electric Co., Ltd. 1-1, Sanyo-cho, Daito City, Osaka 574-8534, Japan FOR RUSSIAN USERS This product is certified by an official certification company which is authorized by the Russian Federation. English ii HOW TO READ THIS MANUAL For first-time users Please read the sections on "SETUP" and "SIMPLE" in this manual, as well as the included "QUICK GUIDE" to familiarize yourself with your camera's operation. To use the various camera features Please read the sections on "NORMAL" and "OPTION SETTINGS" in this manual. To view on a TV, please read the section on "OTHER DEVICES AND CONNECTIONS" in this manual. To connect to a computer, please see the "Xacti Software CD INSTRUCTION MANUAL". To use additional features To use a computer to edit the recorded data or to save data to a DVD, please read the "Xacti Software CD INSTRUCTION MANUAL". You may find the answers to questions or problems concerning camera operation in the sections "COMMONLY ASKED QUESTIONS" (page 143) and "TROUBLESHOOTING" (page 150). Symbols used in this manual HINT CAUTION (page xx) Points giving some extended instructions or special points to pay attention to.

Points that require special attention. Refer to the page indicated for detailed information. iii English SHOOT, PLAY BACK AND SAVE Install the battery pack and card 1 Insert the battery pack. Battery pack slot Lever 1 Press the latch 1 Push 2 Open Bottom side 2 Insert 2 Insert the SD Memory Card. h An SD Memory Card is not included with your camera. Please purchase a commercially sold card. h In this manual, the SD Memory Card is referred to as the "card". Card slot 1 Open 2 Insert English iv SHOOT, PLAY BACK AND SAVE Shooting kVideo clip recording [] button 1 Open the monitor unit, and press the ON/OFF button for at least 1 second. h The camera turns on. h If the screen to set the date and time appears, press the MENU button 2 times to cancel it. For how to set the date and time, see page 32. Record. To record a video clip: h Press the [] button to begin recording a video clip. h Press the [] button again to end the recording. To take a photo: h Press the [] button.

h A still image is captured. ON/OFF button Monitor unit 2 [] button 1031 9M-S 00:55:58 HD-SHQ v English Before capturing those important shots, be sure to first take a test shot to confirm that your camera is set up and ready to go i Sanyo declines any claim for compensation for recorded contents etc. in case of photographing or recording failure due to a chance camera or card flaw. Playback 1 2 Press the REC/PLAY button. h The display changes to the Playback Screen.

Select the image to play back. h Press the [G] or [H] button to move the orange frame to the image you wish to play back. h The image information for the framed image is shown at the bottom of the screen. SET button REC/PLAY button Arrow buttons HD-SHQ 10.2MB 100-0006 00:00:08 OK Orange frame English vi SHOOT, PLAY BACK AND SAVE 3 Press the SET button. <Video clip playback> h Playback begins. <To return to the recording mode> h Press the REC/PLAY button. When you are finished using the camera...

Press the ON/OFF button for at least 1 second to turn the camera off. To continue to the next operation... Please confirm that your computer is connected to the Internet. vii English Burn your recorded video clips onto a DVD (Windows Vista) Using the supplied CD-ROM (Xacti Software CD), you can store your captured images on a DVD. Detailed information about the Xacti Software CD can be found on page 4 in the Xacti Software CD INSTRUCTION MANUAL. Install application program 1 2 Set the supplied CD-ROM in your computer's DVD drive. h The installation window opens. Click on [TotalMedia Extreme for SANYO].

h After clicking on the application program, follow the instructions shown on the monitor to install the program. h When the window appears requesting to restart your computer, click the [Finish] button to reboot.



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Remove the CD-ROM from the computer's DVD drive. <About the Kodak online service> h When the installation window closes, a dialog box to connect to the website introducing Kodak's online service appears. Check the [No thanks !] option button, and then click on the [OK] button.

3 English viii SHOOT, PLAY BACK AND SAVE Copy data from your camera to the computer Connect your camera to a computer, and copy the desired data to the computer. 1 2 Turn on the computer, and use the supplied dedicated USB interface cable to connect your camera to the computer. h Connect the cable between the camera's USB/AV terminal and the computer's USB connector. Turn on the camera (page 30). h The USB Connection Screen appears on the camera's monitor.

SET button Supplied dedicated USB interface cable USB CONNECTION COMPUTER PRINTER CANCEL CANCEL OK To USB connector on the computer To USB/AV terminal on the camera ix English 3 Select "COMPUTER", and press the SET button. h The screen to select the computer USB CONNECTION connection mode appears. CARD READER MTP SCREEN CAPTURE PC CAMERA CANCEL OK 4 5 Select "CARD READER", and press the SET button. Copy data from your camera to a computer. English x SHOOT, PLAY BACK AND SAVE Burn video clips onto a DVD (For Windows Vista users) Here's how to write your recorded data onto a DVD in the mpeg2 format. For information on other operations, please see the Help file for TotalMedia Extreme. To access the TotalMedia Extreme Help file, click the [?] Help button on the TotalMedia Extreme start screen. 1 2 Insert a blank DVD in your computer's DVD drive. Double-click the [TotalMedia Extreme] icon on your desktop. h The TotalMedia Extreme application starts, and the startup page appears.

[Create video] icon xi English 3 Click the [Create video] icon. h The "Create DVD" window appears. [Video] button 4 Click the [Video] button in the "Insert" field. h The screen to select the video clip file to write to a DVD appears. h Click the file you wish to write to a DVD. h To select multiple files, keep the [Ctrl] key pressed while selecting files. English xii SHOOT, PLAY BACK AND SAVE 5 Click on the [Open] button. h The file(s) selected in step 4 and the DVD file capacity appear in the "Create DVD" window. [Design] tab xiii English 6 Click the [Design] tab. h The window appears to design the title menu for when the DVD is played back.

h Select the desired design. [Preview/Produce] tab English xiv SHOOT, PLAY BACK AND SAVE 7 8 Click the [Preview/Produce] tab. h A warning regarding the image quality of the preview image appears. Click the [OK] button. h The screen to begin burning to disk appears.

[Burn] button 9 Double-click the [Burn] button. h The "save project" confirmation window appears. xv English 10 Click the [Yes] button. h Enter a name for the project file. 11 Click the [Save] button.

h The "Burn disk" window appears. [OK] button 12 Click the [OK] button. h Burning begins. h Depending on your computer's capacity, it may take some time to burn a large file. h When burning is completed, the DVD is ejected from the DVD drive. English xvi SHOOT, PLAY BACK AND SAVE 13 Click the [OK] button. 14 Click the [x] button to close the "Create DVD" window. h The TotalMedia Extreme top page appears. 15 Click the [x] button to close the startup page. h TotalMedia Extreme is exited.

xvii English CAUTION Does the window requesting confirmation to enable the MPEG-2 Codec appear? When using TotalMedia Extreme for the first time, a window requesting you to confirm activation of the MPEG-2 Codec appears during the procedure. The MPEG-2 Codec must be activated in order to burn files to a DVD. Complete the following procedure to activate the MPEG-2 Codec. i Note that your computer must be connected to the Internet in order to complete this procedure. Please confirm that your computer is connected to the Internet. 1 When the window requesting confirmation to activate the MPEG-2 Codec appears, click the [Yes] button. h The ArcSoft website appears. 2 Click on [Special downloads]. h The window appears for you to enter your email address, name, license ID, etc. h Enter the correct information.

3 Click the [Submit] button. h Soon thereafter, the URL for the download to activate the MPEG-2 Codec will be sent to the email address you entered in step 2. 4 Click the download URL link. h The program will be downloaded to your computer. 5 Double-click the icon for the downloaded program.

h Follow the instructions to activate the MPEG-2 Codec. h DVD burning via the TotalMedia Extreme program is now enabled. h When the procedure above has been completed, continue to the procedure to burn to DVD. United States/Canada Tel: +1-510-979-5599 Web: <http://www.arcsoft.com/supporwaterproof.seal>. k Other cautions i Do not subject the camera to severe jolts, as doing so may deform the battery/card compartment cover or camera body, thus compromising its waterproof capability. If the camera has been subjected to a strong jolt, please consult with your dealer. HINT What is "JIS IPX8" (formerly "JIS protection grade 8")? i "JIS IPX8" specifies that a device is protected against the effects of continuous immersion in water. English

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. 170 5 English QUICK SEARCH BY OPERATION Your camera has an abundance of convenient features and functions. From creating precisely the photo you want, to viewing images using various techniques, you can locate the exact operation for your purposes in the following table. Shooting/recording Basic operation Getting started shooting/recording · "VIDEO CLIP RECORDING" on page 59 · "SHOOTING SINGLE SHOTS" on page 60 · "Sequential shots" on page 83 · "Audio recording" on page 80 Convenient functions Log the date and time of your photos · "DATE AND TIME SETTING" on page 32 Additional functions For more accurate focus · "How to use the manual focus" (manual focus) on page 87 Zoom in on the subject · "MACROPHOTOGRAPHY (ZOOM)" on page 66 Set the focus to a narrow range · "Focus mode setting" on page 88 Close-up photography · "Focus range" (super macro mode) on pages 42 and 48 · "Select the focus setting" (super macro mode) on page 57 Reduce noise when recording · "NOISE REDUCTION setting" on page 120 Optimize the photo quality · "Select the recording size" on pages 42 and 56. · "Video setting" on pages 46 and 80 · "Still image setting" on pages 46 and 83 Set the camera's color/contrast characteristics · "Image quality setting" on page 120 Capture fast-moving subjects · "Scene select" (sports mode) on page 46 Suppress camera shake effect · "Video stabilizer setting" on pages 48 and 86 English 6 QUICK SEARCH BY OPERATION Basic operation Shooting/recording Convenient functions Additional functions Shoot in dark conditions · "Exposure compensation" on page 94 · "Using the flash" on pages 42, 46 and 62 · "Scene select setting" (night view portrait mode/fireworks mode/lamp mode) on pages 46 and 84 Increase the camera's sensitivity · "ISO sensitivity setting" on pages 48 and 89 · "High sensitivity mode setting" on pages 50 and 93 Photographing people · "Scene select setting" (portrait mode/night view portrait mode) on pages 46 and 84 · "Filter setting" (cosmetic filter) on pages 46 and 84 Sharp face shots · "Face chaser setting" on pages 50 and 92 Simplified operation for shooting/playback · "SWITCHING BETWEEN THE RECORDING MODE AND PLAYBACK MODE" on page 35 Photographing landscapes · "Scene select" (landscape mode) on page 46 Take a self-photo · "Self-timer setting" on pages 46 and 85 Make images lighter or darker · "Exposure compensation" on page 94 · "High sensitivity mode setting" pages 50 and 93 Measure the brightness of a specific area · "Light-measuring mode setting" on pages 48 and 88 Adjust the camera's sensitivity · "ISO sensitivity setting" pages 48 and 89 For a more precise exposure setting · "Exposure setting" (manual exposure control) on pages 50 and 91 Change the color of the images · "Filter setting" (monochrome filter/sepia filter) on pages 46 and 84 Make white appear natural · "White balance setting" on pages 50 and 90 7 English Basic operation Getting started viewing images · "PLAYING BACK VIDEO CLIPS AND STILL IMAGES" on page 69 Playback Convenient functions Adjust the speaker volume · "PLAYBACK VOLUME" pages 44 and 73 Additional functions Change the angle of view · "Rotate" on pages 51 and 99 Search for image/ audio files · "Multi-image display" on page 77 · "Selecting the playback folder" on pages 52 and 78 Reduce the photo size · "Resize" on pages 51 and 99 Magnify an image · "Magnifying (zooming in) the image" on page 79 · "Audio playback" on page 82 Adjust the speaker volume · "PLAYBACK VOLUME" on pages 44 and 73 Continuous playback · "SLIDESHOW PLAYBACK" on pages 44, 72 and 96 Adjust the monitor brightness · "BRIGHTNESS setting" on page 120 Playback on a TV · "PLAYING BACK ON A TV" on page 139 Set the TV system · "TV output setting" on pages 120 and 125 English 8 QUICK SEARCH BY OPERATION Basic operation File managing/processing Convenient functions Additional functions Search for image/audio files · "Multi-image display" on page 77 · "Selecting the playback folder" on pages 52 and 78 Delete files · "DELETING FILES" on pages 44 and 74 Protect files from accidental erasure · "File protect setting" on pages 51 and 97 Format a card · "Formatting (initializing)" on pages 122 and 131 Delete a part of a video clip and join video clips · "Editing video clips" on pages 52 and 101 Specify the number of prints, index print, and date imprint · "Printing instructions" on pages 52 and 112 View the settings that were in effect when the image/audio files were recorded · "FILE INFO DISPLAY" on page 115 9 English Basic operation Using with a computer Convenient functions Additional functions Use the camera as a card reader · "SETTING THE CONNECTION MODE" on page 9 in the Xacti Software CD INSTRUCTION MANUAL · "USING AS A CARD READER" on page 11 in the Xacti Software CD INSTRUCTION MANUAL Use your computer to organize/edit files that were recorded with your camera · "The software" on page 4 in the Xacti Software CD INSTRUCTION MANUAL Copy data from your Using with Windows Vista camera to a computer · "SETTING THE CONNECTION MODE" on page 9 in · "Copy data from your camera to the computer" on page ix · "Operating environment" on page 6 in the Xacti Software CD INSTRUCTION MANUAL .

"SETTING THE CONNECTION MODE" on page 9 in the Xacti Software CD INSTRUCTION MANUAL the Xacti Software CD INSTRUCTION MANUAL Playback · "About video clip files recorded with this camera" on page 8 in the Xacti Software CD INSTRUCTION MANUAL Using as a webcam · "USING AS A PC CAMERA" on page 14 in the Xacti Software CD INSTRUCTION MANUAL Record an image of the computer screen · "INSTALLING THE APPLICATION SOFTWARE" on page 15 in the Xacti Software CD INSTRUCTION MANUAL · "SCREEN CAPTURE" on page 16 in the Xacti Software CD INSTRUCTION MANUAL English 10 CHECKING THE INCLUDED ACCESSORIES i Handstrap and soft case (pages 13 and 14): 1 set i Xacti Software CD (CD-ROM) (page 4 in the Xacti Software CD INSTRUCTION MANUAL): 1 i Li-ion battery pack (pages 23 and 25): 1 i Lithium-ion battery pack charger (page 23): 1 i Dedicated USB interface cable (page 140, page 9 in the Xacti Software CD INSTRUCTION MANUAL): 1 i Dedicated AV interface cable (page 136): 1 11 English i QUICK GUIDE i SAFETY MANUAL (safety precautions booklet) Please read this booklet carefully before using the camera.



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English 12 CHECKING THE INCLUDED ACCESSORIES How to use the accessories k Handstrap 13 English k Soft case English 14 CHECKING THE INCLUDED ACCESSORIES Media cards that can be used with this camera The types of card that can be inserted into and used with this camera are: i SD Memory Card i SDHC Memory Card What "card" means in this manual, SD Memory Cards and SDHC Memory Cards that can be used in this digital camera are referred to as "card". 15 English SPECIAL FEATURES Your dual camera can not only record video clips, you can also take still photos and make audio recordings. For example, you can snap a still image while recording a video clip, or make just an audio recording. Waterproof capability The camera is equipped to safely be used in water at a temperature of less than 40 °C (104°F), at a depth of less than 1.5 m (59 in.), for up to approximately 60 minutes. You can enjoy taking pictures at the beach or by the pool. English 16 SPECIAL FEATURES Movable monitor for any shooting angle The movable monitor lets you shoot from any angle. Hold the camera high to get a great view of a parade, or swivel the monitor around to snap a photo of yourself. If you swivel the monitor unit to its farthest position, the image on the monitor will be inverted. 17 English Capture still shots while recording a video clip (page 64) Suppose that while you're recording a video clip, there's a scene you'd like to keep as a still photo. Your camera makes it possible to record the still photo without interrupting the video clip recording. 1031 9M-S HD-SHQ 00:55:58 English 18 SPECIAL FEATURES Lots of accessories for optimal use of your captured images (page 20) Use the accessory cables to view images on a TV or computer. Or connect the camera directly to a printer to make prints of your photos. And with the software in the supplied CD-ROM (Xacti Software CD), you can create your original DVDs and CDs.

19 English SYSTEM MAP You can connect the camera to various devices to expand its capabilities. Internet Computer Dedicated USB interface cable Printer Dedicated AV interface cable TV DC adaptor (Optional) AC adaptor (Optional) i Card reader i DPOF-compatible printer i Photo shop Commercially available SD Memory Card English 20 SETUP SETUP PARTS NAMES Front Flash Lens Stereo microphone Speaker REC/PLAY button Monitor unit To open ON/OFF button Strap holder There are places in the camera where water might accumulate, but this will not affect its waterproof properties. Concerning the drainage holes, see page 67. 21 English Rear [] button [] button MENU button SETUP [T/] button [G] button [H] button [W/P] button SET button Multi-indicator Monitor i When the camera is set to the HD mode, black bars appear along the top and bottom borders of the monitor, and the screen display changes to the 16:9 aspect ratio. In the Instruction Manual, however, these black bars are not shown in the illustration of the screen. Battery/card compartment cover Tripod stand hole English 22 CHARGING THE BATTERY PACK Please charge the supplied battery pack before using it. 1 Insert the battery pack in the battery charger. h Insert it in the direction indicated by the [o] mark on the battery pack. Connect the supplied power cord to the socket on the battery pack charger. h Insert the connector straight and securely. Plug the power plug into a power outlet (AC 100 V to 240 V). h Charging begins. h During charging, the CHARGE indicator is lit red. h The charging time is approx. 90 minutes.

When the CHARGE indicator turns off, unplug the power cord from the power outlet, and remove the battery pack from the charger. CHARGE indicator [o] mark Battery pack Socket To power outlet 2 Power cord 3 CHARGE indicator 4 23 English Recharging the battery pack Be sure to fully charge the supplied or separately sold battery pack before using it in your camera. For charging the battery pack, use the supplied charger. Charge the battery pack if it is being used for the first time, and recharge it whenever the remaining charge is low (see "CHECKING THE REMAINING BATTERY PACK CHARGE" on page 134). If there is interference to your TV or radio during recharging.

.. i Move the battery pack and charger further away from the TV or radio. Ambient temperature during recharging i During recharging, the charger and battery pack will be warm. This is normal and does not indicate a malfunction. i It is recommended that the ambient temperature during recharging be between about 0 °C and 40 °C (32°F and 104°F). Due to the characteristics of the battery pack, at temperatures below 0 °C (32°F), it may not be possible to sufficiently recharge it. i When the battery pack temperature is high, it may take longer to recharge it. Recharge a battery pack in the following cases i A battery pack which has not been used for a long time i Newly purchased battery pack SETUP English 24 INSTALLING THE BATTERY PACK AND CARD Make sure that the battery pack and the card orientation are correct. Install the battery pack 1 Open the battery/card compartment cover.

h While gently pressing the lever, open the battery/card compartment cover. Lever 1 Push 2 Open 2 Insert the battery pack. h Press the latch, insert the battery pack, and firmly push it all the way in. Battery pack slot 1 Press the latch Bottom side 2 Insert 25 English <To remove the battery pack...> h Press the latch securing the battery pack, and remove the battery pack. 1 Press the latch 2 Pull out SETUP 3 Close the battery/card compartment cover. h Press the PUSH LOCK part to close the cover securely. h At the time of purchase the battery pack is not charged.

Be sure to fully charge the battery pack (page 23). Press the PUSH LOCK part to securely close the cover. Installing the DC adaptor (sold separately: VAR-A2U/A2EX) 1 Insert 2 Connect the AC adaptor To power outlet English 26 INSTALLING THE BATTERY PACK AND CARD CAUTION Close the battery/card compartment cover securely i If the battery/card compartment cover is not closed or is not closed completely, the camera will no longer be waterproof. When closing the battery/card compartment cover, make sure that no foreign object such as sand, hair, dust, etc. is caught in the seal. Do not charge the battery pack immediately after the camera has been in continuous use for a long time i The battery pack becomes hot when the camera is used continuously for a long time. If you attempt to charge the battery pack in this state, the charge indicator may flash red and it may not be possible to charge the battery pack. Wait until the battery pack has cooled down before attempting to charge it. Does the battery pack appear swollen? i The lithium-ion battery used in this camera may expand slightly when stored in a hot environment or repeatedly used, but this is not a safety hazard.



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HINT About the internal backup battery i This camera's internal battery serves to maintain the date and time settings, as well as the shooting settings. The backup battery will be fully charged when the battery pack is kept in the camera continuously for about 2 days. In the fully charged state, the backup battery will maintain the camera settings for about 7 days. When not using the camera for a long time, remove the battery pack i A small amount of power is still used even if the camera is turned off, and it is therefore recommended that the battery pack be removed from the camera if it is not going to be used for a long time. Note that when the battery pack is removed for a long period, the time and date settings may be cleared. Before using your camera again, be sure to confirm that the camera settings are correct. To prolong the life of the battery pack i Although the battery pack is an expendable item, you can maximize the life of the battery by heeding the following suggestions. h Do not leave the battery under the hot summer sun or exposed to other high-temperature environments. h Do not continually recharge the battery when it is already fully charged. After fully charging it once, for example, use it for a while to partially discharge it before recharging it again. h When the battery is not to be used for a long time, if possible store the partially charged (not fully charged) battery in a cool environment.

27 English Install the card The card can be used after it has been formatted with the camera (page 131). 1 2 Open the battery/card compartment cover. Insert the card. h Firmly insert the card until it clicks into place. Card slot SETUP 1 Open 2 Insert 3 Close the battery/card compartment cover. <When removing the card...> 1 Open h To remove the card, press it 2 Push down, and then release. The card will protrude slightly, and you can then pull it out.

3 Pull out English 28 INSTALLING THE BATTERY PACK AND CARD CAUTION Do not attempt to forcibly remove the card i Never remove the card when the multi-indicator is flashing red. In doing so, you risk losing the data stored in the card. HINT Shooting without a card installed i When a card is installed, images are recorded to and played back from the card. When no card is installed, images are recorded to and played back from the camera's internal memory. When the camera is turned on with no card installed, the internal memory icon is shown on the monitor to let you know that the images you capture will be saved to the camera's internal memory.

About the temperature alert icon \ During camera use, if the temperature of the battery or inside the camera (excluding the battery) rises, a temperature alert icon \ will appear as described below. k When the battery or internal camera (excluding battery) temperature rises during use h During camera use, if the temperature of the battery or inside the camera (excluding the battery) rises, a \ icon lights on the monitor. It is still possible to record and play back even when the \ icon is lit; however it is advised that you discontinue use as soon as possible and turn the camera off. h If the temperature rises further, the \ icon will start to flash, and the camera will turn off automatically. The camera cannot be turned on until the temperature has dropped (or as long as the \ icon remains flashing).

Please wait until the temperature has dropped before resuming use. h During video recording, a countdown indicator will show the time starting about 15 seconds before shutdown. When the indicator shows 0 seconds, recording stops. h If the camera is turned off while the temperature is high (that is, while the \ icon is flashing), it cannot be turned on again until the temperature has dropped (or as long as the \ icon remains flashing). 29 English TURNING THE CAMERA ON AND OFF Turning on the camera 1 Open the monitor unit, and press the ON/OFF button for at least 1 second. h If you press the REC/PLAY button for at least 1 second, the camera turns on in the playback mode. h If you press the ON/OFF button once, the camera will switch to the power save mode. Monitor unit SETUP ON/OFF button Turning on the camera when the power save (sleep) function is active In order to preserve battery pack power, the power save (sleep) function will automatically turn off the camera after about 1 minute of no use during shooting, or about 5 minutes of no use during playback (factory-preset setting). i When the power save function is active, you can restore the power by any of the following methods: h Press the ON/OFF button. h Press the [] or [] button.

h Open the monitor unit. h Press the SET button. i The camera will switch to the standby mode after the power save function has been active for about 1 hour, or when you close the monitor unit. i The power save mode will not be activated while you are recording. i The user can specify the time elapsed before the power save function is activated (page 122). i When the camera is connected to a computer or printer using the dedicated USB interface cable, the power save function is disabled, and the camera turns off after about 12 hours. English 30 TURNING THE CAMERA ON AND OFF Turning off the camera 1 Press the ON/OFF button for at least 1 second. h The camera turns off. h To turn off the camera while it is in the recording mode or power save mode, press the ON/OFF button for at least 1 second. HINT To immediately activate the power save function i Press the ON/OFF button briefly to activate the power save function.

About the standby mode i To turn off the camera only briefly, you can close the monitor unit to put the camera in the standby mode. The standby mode uses almost no power. When the monitor unit is opened again, the camera turns on immediately and you are ready to shoot or view images without any delay. CAUTION If the K icon appears..

. i When a picture is taken, the date and time it was captured are recorded with it. If the date and time settings have not been completed (page 32), the date and time cannot be recorded with the captured images. For this reason, immediately after the camera is turned on, the "Set date and time" screen appears. To have the date and time recorded with the images, please complete this setting before capturing images.

31 English DATE AND TIME SETTING The camera will record the date and time an image or audio recording is taken so that you can display them during playback. Therefore, before capturing images, make sure the correct date and time are set. * To correct the date and time setting, please see under HINT on page 34. Example: To set the clock to 7:30 p.m. on December 24, 2009 1 Turn on the camera (page 30), and press the SET button. h The Clock Set Screen appears. h Follow the procedures below to enable or disable the date display during playback, to set the display format for the date, and to set the date and time. h To display the Recording or Playback Screen, press the MENU button 2 times.



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SETUP SET button MENU button CLOCK SET DATE TIME DISP 2009/02/01 00:00 Y/M/D SET OK English 32 DATE AND TIME SETTING 2 Set the date.

1 Select "DATE". 2 Press the SET button. h The Set Date Screen appears. 3 Set the date to "2009/12/24". h The date is set in the following order: Set the year Set the month Set the day. h Press the [G] or [H] button to select year, month or day. Press the [T/] or [W/P] button to increase or decrease the number. 4 Press the SET button. Set the clock. 1 Select "TIME".

2 Press the SET button. h The Set Time Screen appears. 3 Set the time to "19:30". h The time is set in the following order: Set the hour Set the minute. h A 24-hour clock is used for the time display.

4 Press the SET button. CLOCK SET DATE 2009/12/24 OK 3 CLOCK SET TIME 19:30 OK 33 English 4 Set the order in which the date is displayed during playback. 1 Select "DISP". 2 Press the SET button. h The Set Date Format Screen appears.

3 Press the [T/] or [W/P] button. h Press the [T/] button to change the displayed date order as follows: Y/M/DM/D/YD/M/Y CLOCK SET DISP OK Y/M/D SETUP Press the [W/P] button to change it in the reverse order. 4 Press the SET button. 5 Press the MENU button. h The date and time setting is completed. h To display the Recording or Playback Screen, press the MENU button. HINT About the settings backup i Under normal conditions, while the battery pack is being replaced, an internal battery will maintain the date and time settings. However, there is a small chance the settings may be lost (the backup will last for about 7 days). It is recommended to check that the date and time settings are still correct after replacing the battery pack and before shooting or recording of any type (follow step 1). To correct the date and time settings 1 Turn on the camera.

2 Display the Option Menu [E1] (page 116). 3 Select "CLOCK SET" and press the SET button. h The screen to set the date and time appears. h The current date and time settings are shown. 4 Select the line you wish to change, and make the correction. English 34 SWITCHING BETWEEN THE RECORDING MODE AND PLAYBACK MODE Switch between the recording mode (for shooting) and the playback mode (for viewing your recorded images). 1 2 Turn on the camera (page 30). Press the REC/PLAY button. h The mode changes. h The mode changes each time the REC/PLAY button is pressed.

1031 9M-S HD-SHQ 00:55:58 REC/PLAY button <Example of the recording mode> HD-SHQ 10.2MB 100-0006 00:00:08 OK <Example of the playback mode> 35 English SWITCHING THE OPERATING MODE The "SIMPLE mode" comprises only those functions that are most often used and necessary to operate the camera, while the "NORMAL mode" enables full use of all the camera's many functions. Select the mode that is suitable for your purposes.

Switching between the SIMPLE and NORMAL modes SETUP 1 2 3 Turn on the camera (page 30). h The previous mode is active.

Press the MENU button. h The Menu Screen for the active mode appears. Select the operating mode icon, and press the SET button. h Switch from the SIMPLE mode to the NORMAL mode, or from the NORMAL mode to the SIMPLE mode. h Press the MENU button to cancel the Menu Screen.

SN Switch to detailed normal menu EXIT OK Operating mode icon <SIMPLE Mode Menu Screen> 1 2 3 1 2 3 Press SET button to switch to simple Menu EXIT OK SN Operating mode icon <NORMAL Mode Menu Screen> English 36 SWITCHING THE OPERATING MODE Accessing/exiting the SIMPLE/NORMAL Mode Menu Screen 1 2 3 Set the camera to the recording or playback mode (page 35). Select the desired operating mode (page 36). If the Menu Screen is not displayed, press the MENU button. h The Menu Screen appears. h To cancel the Menu Screen, press the MENU button. MENU button SN Switch to detailed normal menu EXIT OK <Example: SIMPLE Mode Recording Menu> 1 2 3 1 2 3 Press SET button to switch to simple Menu EXIT OK SN <Example: NORMAL Mode Recording Menu> 37 English Using the SIMPLE Mode Menu 4 Press the [T/] or [W/P] button to select the item you wish to change, and press the SET button. h The Setting Screen for the selected item appears. SETUP Press Select an item to change Description of selected item Select video and photo size SN EXIT OK Press Press To keep in HDTV size 9 HD 2 HDTV size 9M [4:3] EXIT OK <Setting Screen> English 38 SWITCHING THE OPERATING MODE Using the NORMAL Mode Menu 4 Press the [T/] or [W/P] button to select a tab. h The Menu Screen for the selected tab appears. Press Tab 1 VIDEO 2 PHOTO 3 1 2 3 RECORDING MENU1 HD-SHQ 9M-S Press SN SCENE SELECT FILTER FLASH SELF-TIMER EXIT OK 5 Press the [H] button.

Press RECORDING MENU1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK HD-SHQ 9M-S 39 English 6 Press the [T/] or [W/P] button to select the item you wish to change, and press the SET button. h The Setting Screen for the selected item appears. h To return to the Menu Screen, press the MENU button. Select an item to change RECORDING MENU1 1 VIDEO 2 PHOTO 3 SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK Press HD-SHQ 9M-S SETUP Press Applicable mode Press PHOTO 6.7M 3456x1944 [16:9] 2M 1600x1200 0.9M 1280x720 [16:9] OK 12M 4000x3000 9M-H 3456x2592 9M-S 3456x2592 <Setting Screen> HINT About the applicable mode indicator i This indicator shows the shooting mode(s) for which the selected setting is effective. : This setting is effective during still image shooting. : This setting is effective during video clip recording. : This setting is effective during still image shooting and video clip recording. English 40 SWITCHING THE OPERATING MODE Overview of the SIMPLE Mode Setting Screen SIMPLE Mode Recording Menu Select video and photo size 1 2 3 4 SN EXIT OK 5 41 English 1 Recording size (page 56) h Select the video clip size to record, and the still image size to shoot.

: The video clip size will be 1280 × 720 pixels, and the still image size will be 3456 × 2592 pixels. : The video clip size will be 640 × 480 pixels, and the still image size will be 1600 × 1200 pixels. w i 3 Flash (page 62) h Specify how the flash will operate. 9: The camera detects the subject brightness and uses the flash only when necessary. :: The flash operates with every image captured regardless of the conditions.

:: The flash does not operate even in dark situations. 4 S N (page 36) h Set to the NORMAL mode. 5 Remaining battery power indication (page 134) SETUP 2 Focus range (page 57) h Select the focus range that corresponds to the distance to the subject. 7: The camera automatically focuses on the subject within a range of 50 cm (19).



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69 in.

) to infinity (normal). 8: The camera focuses on a subject within a range of 1 cm (0.39 in.) to 80 cm (31.50 in.) (super macro). English 42 SWITCHING THE OPERATING MODE SIMPLE Mode Playback Menu 1 2 3 Start slideshow OK 4 5 43 English 1 Slideshow (page 72) h Specify the slideshow settings and play the slideshow. 2 Playback volume (page 73) h Adjust the volume for video clip and audio file playback. 3 Delete (page 74) h Delete files. 4 S N (page 36) h Set to the NORMAL mode.

5 Remaining battery power indication (page 134) SETUP English 44 SWITCHING THE OPERATING MODE Overview of the NORMAL Mode Setting Screen NORMAL Mode Recording Menu <Tab 1> 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK 1 VIDEO RECORDING MENU1 HD-SHQ 9M-S 1 2 3 4 5 6 7 45 English 1 Video clip settings (page 80) <HD mode> &: Record at 1280 × 720 pixels, 30 fps (30p). <SD mode> (: Record at 640 × 480 pixels, 60 fps (60p).): Record at 640 × 480 pixels, 30 fps (30p). <: Make an audio recording. 2 Still image settings (page 83) I: Image size is 4000 × 3000 pixels. J: Image size is 3456 × 2592 pixels (low compression). K: Image size is 3456 × 2592 pixels (normal compression). Q: Image size is 3456 × 1944 pixels (16:9 aspect ratio). G: Image size is 1600 × 1200 pixels. .: Image size is 1280 × 720 pixels (16:9 aspect ratio).

[: Image size is 640 × 480 pixels. v: 3456 × 2592-pixel sequential shots. t: 1600 × 1200-pixel sequential shots. 3 Scene select (page 84) =: Full auto setting a: Sports mode >: Portrait mode +: Landscape mode /: Night view portrait mode k: Snow & beach mode [: Underwater mode +: Fireworks mode Q: Lamp mode 4 Filter (page 84) &: No filter %: Cosmetic filter W: Monochrome filter .: Sepia filter 5 Flash k: The camera will detect the subject brightness and use the flash only when necessary. m: The flash will operate with every image captured regardless of the conditions.

l: The flash will not operate even in dark situations. 6 Self-timer (page 85) N: Self-timer is off. y: Shooting begins 2 seconds after the [] or [] button is pressed. x: Shooting begins 10 seconds after the [] or [] button is pressed. 7 Remaining battery power (page 134) SETUP English 46 SWITCHING THE OPERATING MODE <Tab 2> 1 RECORDING MENU2 VIDEO STABILIZER 2 FOCUS 3 FOCUS MODE 1 EXP MEASURE 2 ISO 3 EXIT OK 1 2 3 4 5 6 47 English 1 Video stabilizer (page 86) h Compensate for camera shake during video clip recording.

\: Record with image stabilizer on.]: Record without image stabilizer. 2 Focus range (page 87) h Select the focus range that corresponds to the distance to the subject. *: The camera automatically focuses on the subject within a range of 50 cm (19.69 in.) to infinity (normal). -: Set the focus distance manually (manual). +: The camera focuses on the subject within a range of 1 cm (0.39 in.) to 80 cm (31.

50 in.) (super macro). 3 Focus mode (page 88) B: 9-point range finder focus C: Spot focus 4 Light-measuring mode (page 88) X: Multi-section light measuring W: Center-weighted light measuring Y: Spot light-measuring 5 ISO sensitivity (page 89) =: Sensitivity is set automatically *: Sets sensitivity to ISO 50 u: Sets sensitivity to ISO 100 v: Sets sensitivity to ISO 200 w: Sets sensitivity to ISO 400 6: Sets sensitivity to ISO 800 -: Sets sensitivity to ISO 1600 * The indicated ISO value is the standard output sensitivity. 6 Remaining battery power (page 134) SETUP English 48 SWITCHING THE OPERATING MODE <Tab 3> 1 RECORDING MENU3 2 WHITE BALANCE 3 EXPOSURE FACE CHASER 1 HIGH SENSITIVITY 2 DIGITAL ZOOM 3 EXIT OK P 1 2 3 4 5 6 49 English 1 White balance (page 90) >: White balance is automatically adjusted depending on the ambient lighting (auto). r: For shooting in sunny conditions (fair) o: For shooting in overcast conditions (cloudy) p: For shooting under fluorescent lighting (fluorescent) q: For shooting under incandescent lighting (incandescent) ^: For setting the most accurate white balance (one push) 2 Exposure (page 91) @: The exposure is set automatically. T: Set the shutter speed manually. g: Set the aperture manually. H: Set the aperture and shutter speed manually. 3 Face chaser (page 92) -: Enable face chaser. .

: Disable face chaser. 4 High sensitivity mode (page 93) 1: Increased sensitivity 2: Normal sensitivity 5 Digital zoom Q: Enable the digital zoom. B: Disable the digital zoom. 6 Remaining battery power indication (page 134) SETUP English 50 SWITCHING THE OPERATING MODE NORMAL Mode Playback Menu <Tab 1> 1 2 PLAYBACK MENU1 SLIDESHOW PLAY VOLUME PROTECT 1 DELETE 2 ROTATE 3 RESIZE EXIT OK 1 2 3 4 5 6 7 1 Slideshow (page 96) h Specify the slideshow settings and play the slideshow. 2 Playback volume (page 73) h Adjust the volume for video clip and audio files playback. 3 Protect (page 97) h File protect setting (delete prohibited) 4 Delete (page 74) h Delete files. 5 Rotate (page 99) h Rotate a still image. 6 Resize (page 99) h Reduce the resolution of a still image. 7 Remaining battery power (page 134) 51 English <Tab 2> 1 PLAYBACK MENU2 EDIT PHOTO 2 EDIT VIDEO PRINT INSTRUCTIONS 1 SELECT FOLDER 2 COPY 3 1 2 3 4 5 6 SETUP EXIT OK 1 Edit photo (page 100) h Repair the "red-eye" caused by the flash, reduce the blur from camera shake, or enhance the contrast (still images only). 2 Video clip edit (page 101) h Edit video clips.

3 Printing instructions (page 112) h Specify the printing instructions (DPOF settings). 4 Select folder (page 78) h Select a folder to play back. 5 Copy h Copy files from the card to the internal memory, or vice versa. 6 Remaining battery power indication (page 134) English 52 SIMPLE SHOOTING SIMPLE/SHOOTING BEFORE TAKING PICTURES For best results Hold the camera securely, keeping your elbows close to your body and making sure the camera is stable. Correct hold Incorrect hold <Holding the camera> Example 1: Grip the camera by wrapping the fingers of the right hand, from the little finger to the middle finger, around the camera, and hook the index finger above the lens. Example 2: Grip the camera by wrapping the fingers of the right hand, from the little finger to the index finger, around the camera. A finger is blocking the lens or flash. Make sure that the lens and flash are not blocked by your fingers or the handstrap. 53 English Using the autofocus The autofocus will work in almost all situations; however, there are certain conditions that may cause the autofocus function to not work properly. If the autofocus function is not working properly, set the focus range to capture images (page 57).

k Conditions that may cause incorrect focus The following examples are some of the situations where the autofocus function may not work. SIMPLE/SHOOTING i Subjects with low contrast, very bright subjects at the center of the image or dark subjects or locations Use the focus-lock function to lock the focus on an object with contrast at the same distance as the desired subject.



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i Subjects without vertical lines Use the focus-lock function to lock the focus while framing the subject vertically, then re-orient the camera to compose a horizontally framed image. English 54 BEFORE TAKING PICTURES The following examples are some of the situations where the autofocus function may work, but not as desired. *i* When both near and far objects are present Use the focus-lock function to lock the focus on an object at the same distance as the desired subject, then reposition the camera to compose the picture. *i* Fast-moving subjects Use the focus-lock function to lock the focus on an object at the same distance as the desired subject, then reposition the camera to compose the picture. HINT *i* Still images can be rotated when they are played back (page 99). *i* When the [] button is pressed halfway, the image in the monitor may waver vertically. This is the result of internal image processing and is not a malfunction. This wavering is not recorded and will not affect your images in any way.

i When the optical zoom is used or when the autofocus is operating, the image may appear to waver, but this is not a malfunction. 55 English Select the recording size The larger the image size (number of pixels), the better the image quality will be, but the file size will also be larger. Select the image quality that is correct for the intended purpose. 1 Display the SIMPLE Mode Recording Menu (page 37), select the recording size setting, and press the SET button. SIMPLE/SHOOTING To keep in HDTV size 9 HD 2 HDTV size 9M [4:3] EXIT OK w: The video clip size will be 1280 × 720 pixels, and the still image size will be 3456 × 2592 pixels.

i: The video clip size will be 640 × 480 pixels, and the still image size will be 1600 × 1200 pixels. 2 Select the desired video clip recording size, and press the SET button. *h* This completes the recording size setting. English 56 BEFORE TAKING PICTURES Select the focus setting Select the focus range corresponding to the distance between the camera and the subject. 1 Display the SIMPLE Mode Recording Menu (page 37), select the focus setting, and press the SET button.

All ranges Automatic focus (people, landscape, etc.) EXIT OK 7: The camera automatically focuses on the subject within a range of 50 cm (19.69 in.) to infinity (normal). 8: The camera focuses on a subject within a range of 1 cm (0.39 in.) to 80 cm (31.50 in.) (super macro). 2 Select the desired focus range, and press the SET button.

h This completes the focus range setting. 57 English Hints for taking pictures Muting the operation sounds *i* The audio guidance that sounds when you operate the camera can be muted (page 118). Where are the image and audio files saved? *i* All the image and sound files are recorded on the card installed in the camera or in the camera's internal memory. Taking pictures in backlight conditions... *i* When taking pictures with the light coming from behind the subject, due to the characteristics of the lens, ghost patterns (flare phenomenon) may appear in the captured image. In this situation, it is recommended that you avoid taking pictures with the subject lit from behind. While the image files are being recorded..

i While the multi-indicator is flashing red, the image files are being written to the memory, during which time it is not possible to capture another image. Another image can be captured after the flashing red indicator turns off. However, even when the multi-indicator is flashing red, depending on the camera's internal memory remaining capacity, in some cases the next image can be captured about 2 seconds after shooting. SIMPLE/SHOOTING English 58 VIDEO CLIP RECORDING 1 2 Turn on the camera (page 30), and set it to the recording mode (page 35).

Press the [] button. *h* Recording begins. *h* It is not necessary to keep the [] button pressed while recording. *h* When the remaining recording time available for the currently recording clip becomes little, a countdown of the remaining recording time appears on the display. End the recording.

h Press the [] button again to stop recording. Recording time [] button 3 REC 00:00:09 5 Available recording time remaining 59 English SHOOTING SINGLE SHOTS Capture a still image (single-shot). 1 2 Turn on the camera (page 30), and set it to the recording mode (page 35). SIMPLE/SHOOTING Press the [] button. 1 Press the [] button halfway. *h* The autofocus operates, and the image is focused (focus lock). 2 Continue to gently press the [] button all the way. *h* The shutter releases and the image is captured. *h* You can view the captured image on the monitor by keeping the [] button depressed when you capture the image. 1 2 [] button 9M-S Target mark English 60 SHOOTING SINGLE SHOTS HINT Adjusting the monitor brightness *i* While the Recording Screen is active, you can quickly access the screen for adjusting the brightness of the monitor (page 120) by pressing the MENU button for at least 1 second.

What is the camera focusing on? Target mark *i* A target mark & on the monitor shows the area the camera is focusing on. *i* The camera automatically determines the correct focus by measuring from 9 different focus points within the shooting area. If the F3.5 target mark is at a position that is 1/30 different from the point you wish to focus on, you can refocus, for Camera shake icon example, by changing the shooting Shutter speed angle. Aperture *i* The large target mark appears when the camera focuses on a wide area in the center of the screen. The focus and exposure can be locked (NORMAL mode) *i* By assigning an operation shortcut to an arrow button (page 123), you can set the autofocus or the exposure to a fixed setting. When the exposure setting is fixed, the P icon appears on the monitor; when the autofocus setting is fixed, the p icon appears on the monitor. *i* When the focus range (page 57) setting is changed, the focus lock is released. The shutter speed and aperture are displayed (NORMAL mode) *i* In the NORMAL mode, the shutter speed and aperture settings are shown on the Recording Screen. You can use them as a reference when shooting.

If the camera shake icon > appears... (NORMAL mode) *i* During still image shooting, if the shutter speed is slow and the possibility that the image may be blurred due to camera shake becomes high, the camera shake icon may appear on the monitor. In this case, use a tripod to stabilize the camera when shooting, or set the flash operation mode to automatic (page 62).

i When shooting with the scene select function set to the fireworks + mode, the camera shake icon always appears, but this is normal. 61 English Using the flash The flash is not only used for photographing under dark conditions, but is also convenient for example when the subject is in shadow or lit from behind. The flash is available only when shooting single-shot still images. 1 Display the SIMPLE Mode Recording Menu (page 37), select the flash setting, and press the SET button.



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h The screen to select the flash operation appears.

SIMPLE/SHOOTING Auto Flash automatically EXIT OK 9: The camera detects the subject brightness and uses the flash only when necessary. ∴ The flash operates with every image captured regardless of the conditions. ∴ The flash does not operate even in dark situations. 2 3 Select the desired flash operation, and press the SET button. h This completes the flash operation setting. Press the [] button to take the picture. English 62 SHOOTING SINGLE SHOTS CAUTION Do not touch the flash unit when shooting i The flash unit becomes very hot and may cause a burn. Avoid touching the flash unit when shooting. HINT i The flash works only when shooting single-shot still images. i The flash cannot be used during video clip recording.

i By assigning an operation shortcut to an arrow button (pages 120 and 123), you can change the flash mode from the Recording Screen (NORMAL mode). 63 English SHOOT A STILL IMAGE WHILE RECORDING A VIDEO CLIP You can capture a still image (a single-shot) while recording a video clip. 1 2 3 Turn on the camera (page 30), and set it to the recording mode (page 35). Press the [] button. [[] button] button SIMPLE/SHOOTING When you see a scene you'd like to capture as a still image, press the [] button. Press the [] button to end the video clip recording. 4 REC 00 : 00 : 09 English 64 SHOOT A STILL IMAGE WHILE RECORDING A VIDEO CLIP HINT i When shooting a still image while recording a video clip, the flash does not operate. i When the remaining video recording time becomes approximately 50 seconds, it will no longer be possible to capture a still image while recording a video clip. The exact remaining recording time at which this occurs will differ depending on the subject and on the video clip mode setting (page 80).

If you intend to capture a still image while recording a video clip, it is suggested that you take note of the remaining video recording time. About the recording size of still images i The size of a still image captured during video clip recording depends on the video clip recording size. Video clip recording size setting & () h It is not possible to capture sequential shots. Still image recording size , (16:9) [(4:3) t (4:3) [(4:3) 65 English MACRO-PHOTOGRAPHY (ZOOM) Your camera has two zoom functions: optical zoom and digital zoom. 1 2 Point the camera lens at the subject. [T/] or [W] button Press the [T/] or [W/P] button to compose the desired image. [T/]: Zoom in on the subject. [W/P]: Zoom out. h When the zoom switch is pushed, the zoom bar appears on the monitor. h When the optical zoom factor is at maximum, zooming stops temporarily.

When the [T/] button is pressed again, the mode changes to the digital zoom mode and zooming continues. Take the picture. For video clip recording, see page 59. For shooting single shots, see page 60. For shooting sequential shots, see page 83. SIMPLE/SHOOTING Monitor 3 Zoom bar When both optical and digital zoom are enabled Optical zoom Digital zoom (yellow) When optical zoom only is enabled Pointer English 66 AFTER USING THE CAMERA IN WATER After using the camera in water, wash it with fresh water and dry it completely. 1 2 3 Turn off the camera, and close the battery/card compartment cover securely. Wash the camera with fresh water. h Fill a shallow basin with fresh water, and immerse the closed camera for about 5 minutes. Rotate the monitor unit several times to clean it completely.

Allow the water to drain out through the drainage holes. h Drain the water through the five drainage holes. Monitor unit Monitor unit Drainage hole Drainage hole Drainage hole 67 English 4 Dry the camera. h Use a dry cloth to wipe off any drops adhering to the camera, and leave it to dry completely in a well-ventilated place away from direct sunlight. h Water may seep out from the drainage holes if the camera is not completely dry inside. Take special care not to let water get inside the battery/card compartment. h Do not use a hair dryer or the like to dry the camera. Exposing the camera to high temperatures may cause the camera and/or waterproof seal to become deformed. SIMPLE/SHOOTING English 68 PLAYBACK SIMPLE/PLAYBACK PLAYING BACK VIDEO CLIPS AND STILL IMAGES 1 2 Set the camera to the playback mode (page 35). Press the [G] or [H] button to display the image you wish to play back.

Arrow buttons SET button HD-SHQ 10.2MB 100-0006 00:00:08 OK Orange frame 3 Press the SET button. h The image you selected in step 2 is displayed fullscreen. h If a video clip was selected, playback begins. <To return to the screen to select playback files> During still image playback: Press the [W/P] button.

During video clip playback: Press the [W/P] button once to stop video clip playback, and press the [W/P] again. REC/PLAY button 69 English To do this... Normal forward playback Stop playback Pause To play back one image at a time (singleframe step) Slow playback Forward playback Reverse playback Forward playback Reverse playback Do this Press the SET button.

*During playback, press the [W] button. During playback, press the SET button or press the [T] button. During accelerated playback, press the [T] button. After pausing playback, press the [H] button. After pausing playback, press the [G] button. After pausing playback, press and hold the [H] button. After pausing playback, press and hold the [G] button. During forward playback, press the [H] button. * The playback speed changes each time the [H] button is pressed, as follows: Normal playback 2× 5× 10× 15× Press the [G] button to resume normal playback speed. During forward playback, press the [G] button.*

** The playback speed changes each time the [G] button is pressed, as follows: 15× 10× 5× Press the [H] button to resume normal playback speed. Press the SET button. SIMPLE/PLAYBACK Forward playback To accelerate playback Reverse playback Return to normal playback speed HINT If the a icon appears on the Playback Screen... i The a icon appears when playing back a file that was saved in segments (page 81). Although playback of these multiple files is continuous, there is a slight pause at the point where the files are joined. English 70 PLAYING BACK VIDEO CLIPS AND STILL IMAGES How to save one frame from a video clip as a still image 1 2 Play back the video clip. Pause the playback at the point you wish to "snap" a photo. Press the [] button. h The currently displayed frame is saved as a still image. HINT The size of a video clip file is very large i Therefore, be aware that if the video clip is uploaded to a computer to be played back, the computer may not be able to play back the video fast enough, making it appear jerky. (The video will always be displayed properly on the monitor or a television.) i Depending on the card, shooting may end even before the possible shooting time indicated.*



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