



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SANYO XACTI VPC-TH1. You'll find the answers to all your questions on the SANYO XACTI VPC-TH1 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-TH1
User guide SANYO XACTI VPC-TH1
Operating instructions SANYO XACTI VPC-TH1
Instructions for use SANYO XACTI VPC-TH1
Instruction manual SANYO XACTI VPC-TH1

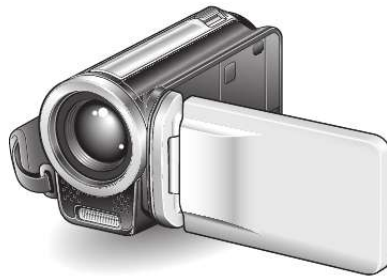
SANYO

INSTRUCTION MANUAL

VPC-TH1EX
VPC-TH1
VPC-TH1GX

Dual Camera

Xacti 



Important note

This manual explains how to safely operate the VPC-TH1EX, VPC-TH1 and VPC-TH1GX.
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-TH1 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 149) and "TROUBLESHOOTING" (page 157). 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 Preparing the camera 1 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". Monitor unit 1 Open Card slot cover 2 Open SD Memory Card 3 Insert 2 Connect the AC adaptor to the camera. AC adaptor DC IN terminal cover 1 Open To power outlet English iv SHOOT, PLAY BACK AND SAVE Shooting 1 Press the ON/OFF button for at least 1 second to turn the camera 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 33.

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 2 [] button [] button MENU button 2M 357 00:13:51 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 Toggle the SET button left, right, up or down 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. REC/PLAY button SET button 2009.12.24 18:41 6.5MB OK HD-SHQ Orange frame 100-0006 00:00:05 Remaining battery power indication 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 programs 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 an 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. 3 English viii SHOOT, PLAY BACK AND SAVE Connect your camera to a computer Connect your camera to a computer, and copy the desired files to the computer.

1 2 Use the supplied dedicated USB interface cable to connect your camera to the computer. Turn on the camera. h The USB Connection Screen appears on the camera's monitor. USB CONNECTION COMPUTER PRINTER CANCEL CANCEL OK Supplied dedicated USB interface cable To USB/AV terminal To USB connector on the computer ix English 3 4 Select "COMPUTER", and press the SET button. h The screen to select the computer connection mode appears.

Select "CARD READER", and press the SET button. h The message [Found New Hardware] appears in the task tray, showing that the camera is recognized as a drive. h The card is recognized (mounted) as a disk, and the [XACTI (E:)] icon appears in the [My Computer] window. h The drive name (E:) may be different on your computer. Copy the files from the card to the computer's hard disk. h The data recorded with your camera are stored in the following folder. You can specify the folder on the hard disk to which to copy the files. XACTI (E:)\DCIM***SANYO (***) represents numbers [page 12 in the Xacti Software CD INSTRUCTION MANUAL]). h The drive name (E:) may be different on your computer. 5 HINT i For information on how to copy all the camera's still image and video clip files at once, please see the support pages at the website below: <http://www.sanyo-dsc.com/>

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, 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 tATING MODE

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

..... 37 Switching between the SIMPLE and NORMAL modes ...

.....
.....

... 37 Accessing/exiting the SIMPLE/NORMAL Mode Menu Screen 38 Overview of the SIMPLE Mode Setting Screen ..

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

..... 43 Overview of the NORMAL Mode Setting Screen

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

.. 47 1 English SIMPLE SHOOTING BEFORE TAKING PICTURES

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

.....
.....
.....
...55 For best results

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

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

.....
.55 Using the autofocus

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

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

..56 Select the recording size

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

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

.....59 Select the focus setting

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

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

60 Hints for taking pictures

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

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

.....61 VIDEO CLIP RECORDING

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

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

.....75 DELETING FILES .

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

76 Delete single/delete all

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

.....76 Delete selected

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

....77 PLAYBACK MODES

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

.79 21-image display playback

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

.79 Selecting the playback folder

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

.....
.....

.....80 Magnifying (zooming in) the image ...

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

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

...81 English 2 CONTENTS NORMAL SHOOTING RECORDING MENU 1

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

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

..... 82 Video setting ...

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

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

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

..... 82 Still image setting ..

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

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

.. 85 Scene select setting ...

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

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

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

.. 86 Filter setting

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

.....
.....
.... 90 ISO sensitivity setting

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

. 91 RECORDING MENU 3

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

.... 92 White balance setting .

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

. 92 Exposure setting

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

..... 93 Face chaser setting

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

. 94 High sensitivity mode setting

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

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

..... 102 Correcting the image

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

.. 102 Editing video clips ...

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

... 103 Printing instructions

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

. 113 FILE INFO DISPLAY

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

117 3 English OPTION SETTINGS DISPLAY THE OPTION SETTING MENU

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

.....118 INTRODUCTION TO THE OPTION SETTING MENU

.....
.....

....119 Storage folder setting .

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

.....125 Shortcut setting

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

126 Screen language

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

...128 TV output setting

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

.....129 File No. continued setting ...

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

.....134 Formatting (initializing) ...

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

.....
.136 CHECKING THE REMAINING CARD MEMORY

.....
.....

.....
..137 Checking the remaining number of images and video recording time ...

.....
.....

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

.....
.....

.137 For audio recordings

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

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

...138 CHECKING THE REMAINING BATTERY PACK CHARGE .



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.....
.....139 OTHER DEVICES AND CONNECTIONS CONNECTING TO A TV CONNECTING TO A TV ...

.....
.....

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

.....
.....

.141 Connecting to a standard video input terminal

.....
.....

....142 Connect to the 480p/720p terminal .

.....
.....

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

.....143 Connecting to the HDMI terminal .

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

.....
.....

..144 PLAYING BACK ON A TV ...

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

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

...145 CONNECTING TO A PRINTER PRINTING

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

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

.....
.....

....146 English 4 CONTENTS APPENDICES COMMONLY ASKED QUESTIONS

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

.....
.....

.. 171 Battery life

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

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

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

..... 171 Possible No. of Images/Possible Shooting Time/ Possible Recording Time

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

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

. 172 Concerning the multi-indicator

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

... 173 Supplied AC adaptor ..

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

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

174 Supplied Li-ion battery pack

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

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

174 Others

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

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



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i Quick Guide Included with model VPC-TH1GX. Not included with other models. English 12 CHECKING THE INCLUDED ACCESSORIES How to use the accessories k Grip belt 2 1 4 3 13 English k Lens cap 1 2 3 4 5 <To remove> <After removing> The lens cap can be stowed in the lens cap holder on the grip belt. 1 Depress 2 Pull Lens cap holder English 14 ABOUT THE SEPARATELY SOLD ACCESSORIES AND THE CARD Separately sold accessories i Mini HDMI cable VCP-HDMI02 Cable for connecting to the HDMI terminal on the camera. i Lithium-ion Battery Charger VAR-L50 Battery charger for the supplied or separately sold lithium-ion battery pack (DB-L50A). i Lithium-ion Battery DB-L50 Same model as the supplied lithium-ion battery pack. Media cards that can be used with this camera The type of card that can be inserted into and used with this camera is: i SD Memory Card i SDHC Memory Card What "card" means in this manual i 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 GETTING THE MOST OUT OF YOUR CAMERA Your dual camera can record video clips in High Definition. It includes an operation mode that lets even novice shutterbugs record and play back without getting flustered, as well as software with which you can easily create your original DVDs. High-quality images with "High Definition" (pages 48, 59 and 82) Your camera can capture high definition (HD) 1280 × 720-pixel video clips. Also, the H.264/MPEG-4 AVC standard is used for formatting video files. You get both compact file size and high picture quality in one high-performance camera. 16 GETTING THE MOST OUT OF YOUR CAMERA Includes SIMPLE mode for quick-and-easy operation (page 37) Select from two recording/playback modes: the "SIMPLE mode" for users new to the camera, and the "NORMAL mode" for full use of all the camera's many features and functions. Example: Select video and photo size SN EXIT OK RECORDING MENU 1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK HD-SHQ 2M <SIMPLE Mode Recording Menu> <NORMAL Mode Recording Menu> Image stabilizer for sharp pictures (pages 50 and 88) Your camera can compensate for the camera shake that results in blurry images when you try to capture a fast-moving subject, or when you zoom in while recording a video clip.

17 English Sharp face shots (pages 52 and 94) Your camera is equipped with a face recognition feature which detects the subject's face even when slightly lit from behind or in dim surroundings and automatically adjusts the focus and brightness to compensate. Now those otherwise perfect photos that are marred by shadowed faces can be minimized. English 18 GETTING THE MOST OUT OF YOUR CAMERA Lots of accessories for optimal use of your captured images (pages 20, and page 4 in the Xacti Software CD INSTRUCTION MANUAL) 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 Mini HDMI cable (optional) i Card reader i DPOF-compatible printer i Photo shop Commercially available SD Memory Card English 20 SETUP SETUP PARTS NAMES Front Monitor unit Zoom switch [T]/[W/P] Lens Grip belt holder Microphone Microphone Flash Bottom Battery cover Tripod stand hole 21 English Rear ON/OFF button Speaker Multi-indicator Grip belt holder SETUP Monitor USB/AV terminal HDMI terminal Card slot cover DC IN terminal cover Battery cover lock [] button REC/PLAY button [] button MENU button SET button English 22 INSTALLING THE CARD Be sure to format a newly purchased card or one that was used in another device before using it in your camera (pages 124 and 136). If an unformatted card is used, the card itself may become unusable. Monitor unit 1 Open Card slot cover 3 Rotate to open Card slot cover 2 Pull Card Card slot 4 Insert 5 Insert the card until it clicks into place i After inserting the card, close the card slot cover. 23 English <To remove the card...> h To remove the card, press it in, and then release. The card will protrude slightly, and you can then pull it out. SETUP CAUTION Do not attempt to forcibly remove the card i Doing so may damage the card or the stored files.

If the multi-indicator is flashing red... i Never remove the card when the multi-indicator is flashing red, as doing so may result in loss of files 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. English 24 CHARGING THE BATTERY PACK Please charge the supplied battery pack before using it. Install the battery pack in the camera, and connect the AC adaptor to charge the battery. Power to the camera can also be supplied from a power outlet when the AC adaptor is connected.

1 While pressing the battery cover lock, slide it (1), and pull out the battery cover toward the bottom of the camera (2). h The battery cover comes off. Battery cover 2 1 Battery cover lock 25 English 2 Insert the battery pack, then replace the battery cover. h Take care that it is positioned correctly. Battery pack SETUP <To remove the battery pack...> h Raise the edge of the battery pack to remove it. English 26 CHARGING THE BATTERY PACK 3 Use the power cord to connect the AC adaptor to a power outlet. h Charging begins.

DC IN terminal How to open the DC IN terminal cover 1 Use fingernail to open. 2 Open downwards. To power outlet <During charging...> h During charging, the multi-indicator is lit red. When charging is completed, the indicator turns off. h The multi-indicator flashes red if the battery pack is defective or is not installed correctly. Make sure that the battery pack is correctly installed. h The charging time is approx.

200 minutes. Multi-indicator 27 English CAUTION 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 multiindicator may flash red and it may not be possible to charge the battery pack.



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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. 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. Recharging when connected to the USB terminal (page 6 in the Xacti Software Pack INSTRUCTION MANUAL) i The battery can be recharged while the camera is connected to a computer. i Note, however, that the time it takes to recharge will differ depending on the camera's operating condition. i Connect the dedicated USB interface cable to the USB connector on your computer.

Do not connect it to the USB connector on the monitor or the keyboard, or to the USB hub.

i If the camera is not going to be used for an extended period of time, please disconnect the dedicated USB interface cable from the camera. SETUP English 28 CHARGING THE BATTERY PACK About recharging Recharging takes place only when the camera is turned off, or when the power save function or the sleep function has been activated. Recharging does not take place when the camera is in the recording mode or playback mode. 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 briefly press the ON/OFF button, once, the camera will switch to the power save mode.

Monitor unit ON/OFF button SETUP REC/PLAY button English 30 TURNING THE CAMERA ON AND OFF Turning on the camera when the power save (sleep) mode 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 mode 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. h When the MENU button is used to turn on the camera, the screen to set the operation sounds appears. i After the power save mode has been active for about 1 hour, the camera will switch to the standby mode. In this case, you can restore the power by pressing the ON/OFF button, or by closing and then opening the monitor unit. i When the AC adaptor is connected, the power save mode will become active about 5 minutes after the camera is turned on (factory-preset setting). i The user can specify the time elapsed before the power save mode is activated (page 124).

i When the camera is connected to a computer or printer, the power save mode becomes active after about 12 hours. 31 English Turning off the camera 1 Press the ON/OFF button for at least 1 second. h The camera turns off. ON/OFF button SETUP HINT To immediately activate the power save mode 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 33), 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" reminder briefly appears, after which the K icon is shown on the Recording Screen. To have the date and time recorded with the images, please complete this setting before capturing images. English 32 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. h To correct the date and time setting, please see under HINT on page 35. 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. 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

Toggle the SET button left or right to select year, month or day.

Toggle the SET button up or down to increase or decrease the number.



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4 Press the SET button. CLOCK SET DATE TIME DISP 2009/02/01 00:00 Y/M/D OK 2 CLOCK SET DATE 2009/12/24 OK 33 English 3 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.

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 Toggle the SET button up or down. h Toggle the SET button up to change the displayed date order as follows: CLOCK SET TIME 19:30 OK SETUP 4 CLOCK SET DISP Y/M/D OK Y/M/DM/D/YD/M/Y Toggle the SET button down to change it in the reverse order. 4 Press the SET button. English 34 DATE AND TIME SETTING 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 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 Setting Menu [1] (page 118). 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. 35 English SWITCHING BETWEEN THE RECORDING MODE AND PLAYBACK MODE Switch between the recording mode (for recording) and the playback mode (for viewing your recorded images).

1 2 Turn on the camera (page 30). SETUP Press the REC/PLAY button. h The mode changes. h The mode changes each time the REC/PLAY button is pressed. 357 2M 00:13:51 <Example of the recording mode> REC/PLAY button 2009.

12.24 18:41 6.5MB OK HD-SHQ 100-0006 00:00:05 <Example of the playback mode> English 36 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 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> 37 English Accessing/exiting the SIMPLE/NORMAL Mode Menu Screen 1 2 3 Set the camera to the recording or playback mode (page 36). Select the desired operating mode (page 37). SETUP 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. 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 MENU button <Example: NORMAL Mode Recording Menu> English 38 SWITCHING THE OPERATING MODE Using the SIMPLE Mode Menu 4 Toggle the SET button up or down to select the item you wish to change, and press the SET button. h The Setting Screen for the selected item appears. Select an item to change Description of selected item Push up Push down SN Select video and photo size EXIT OK To keep in HDTV size 2M 2M Press HDTV size 2M [4:3] EXIT OK <Setting Screen> 39 English Using the NORMAL Mode Menu 4 Toggle the SET button up or down to select a tab. h The Menu Screen for the selected tab appears. Tab SETUP Push up Push down RECORDING MENU 1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER SN EXIT OK HD-SHQ 2M 5 Toggle the SET button to the right. Push to the right RECORDING MENU 1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK HD-SHQ 2M English 40 SWITCHING THE OPERATING MODE 6 Toggle the SET button up or down 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 1 VIDEO 2 PHOTO 3 RECORDING MENU 1 HD-SHQ 2M Push up Push down SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK Applicable mode PHOTO Press 0. 9M 2M 1.1M 0.3M 1600×1200 1184×888 1280×720 [16:9] 640×480 1600×1200 1184×888 OK <Setting Screen> 41 English 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. SETUP English 42 SWITCHING THE OPERATING MODE Overview of the SIMPLE Mode Setting Screen SIMPLE Mode Recording Menu 1 2 3 4 Select video and photo size SN EXIT OK 5 43 English 1 Recording size (page 59) h Select the video clip size to record. r: The video clip size is 1280 × 720 pixels, recorded at 30 frames/sec. The captured still image size is 1600 × 1200 (4:3) pixels. i: The video clip size is 640 × 480 pixels, recorded at 30 frames/sec.

The captured still image size is 1600 × 1200 (4:3) pixels. 2 Focus range (page 60) 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 (19.69 in.) to infinity (normal). 8: The camera focuses on a subject within a range of 1 cm (0.39 in.) to 1 m (3.28 ft.) (super macro).

3 Flash (page 65) 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. SETUP S N (page 37) h Set to the NORMAL mode. 5 Remaining battery power indication (page 139) 4 English 44 SWITCHING THE OPERATING MODE SIMPLE Mode Playback Menu 4 1 2 3 SN Start slideshow OK 5 45 English 1 Slideshow (page 74) h Specify the slideshow settings and play the slideshow.



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2 Playback volume (page 75) h Adjust the volume for video clip and audio file playback. 3 Delete (page 76) h Delete files. 4 S N (page 37) h Set to the NORMAL mode. 5 Remaining battery power indication (page 139) SETUP English 46 SWITCHING THE OPERATING MODE Overview of the NORMAL Mode Setting Screen NORMAL Mode Recording Menu <Tab 1> RECORDING MENU 1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER EXIT OK HD-SHQ 2M 1 2 3 4 5 6 7 47 English 1 Video clip settings (page 82) <HD mode> &: Record at 1280 × 720 pixels, 30 fps (30p). <SD mode> (: Record at 640 × 480 pixels, 60 fps (60 p).): Record at 640 × 480 pixels, 30 fps (30 p). <: Make an audio recording. 2 Still image settings (page 85) G: Image size is 1600 × 1200 pixels. k: Image size is 1184 × 888 pixels. ,: Image size is 1280 × 720 pixels (16:9 aspect ratio). [: Image size is 640 × 480 pixels. t: 1600 × 1200-pixel sequential shots. l: 1184 × 888-pixel sequential shots. 3 Scene select (page 86) =: Full auto setting a: Sports mode >: Portrait mode +: Landscape mode /: Night view portrait mode k: Snow & beach mode +: Fireworks mode Q: Lamp mode 4 Filter (page 86) &: 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. SETUP 6 Self-timer (page 87) 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 indication (page 139) English 48 SWITCHING THE OPERATING MODE <Tab 2> 1 RECORDING MENU 2 VIDEO STABILIZER 2 FOCUS 3 FOCUS MODE 1 EXP MEASURE 2 ISO 3 1 2 3 4 5 6 EXIT OK 49 English 1 Video stabilizer (page 88) h Compensate for camera shake during video clip recording. \: Record with image stabilizer on. J: Record without image stabilizer. 2 Focus range (page 89) h Select the focus range that corresponds to the distance to the subject. *: The camera automatically focuses on the subject with a range of 50 cm (19.69 in.) to infinity (normal). -: The focus can be set manually. +: The camera focuses on the subject within a range of 1 cm (0.39 in.) to 1 m (3.28 ft.) (super macro). 3 Focus area (page 90) B: 9-point range finder focus C: Spot focus 4 Light-measuring mode (page 90) X: Multi-section light measuring W: Center-weighted light measuring Y: Spot light-measuring 5 ISO sensitivity (page 91) =: Sensitivity is set automatically (video clip recording: ISO 50 to 800; still image shooting: ISO 50 to 200) *: 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 h The indicated ISO value is the standard output sensitivity. 6 Remaining battery power indication (page 139) SETUP English 50 SWITCHING THE OPERATING MODE <Tab 3> 1 RECORDING MENU 3 2 WHITE BALANCE 3 EXPOSURE FACE CHASER 1 HIGH SENSITIVITY 2 ZOOM 3 1 2 3 4 5 6 EXIT OK 51 English 1 White balance (page 92) >: 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 93) @: 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 94) -: Enable face chaser. .: Disable face chaser. 4 High sensitivity mode (page 95) 1: Increased sensitivity. 2: Normal sensitivity. 5 Zoom h Specify the optical zoom maximum magnification setting and the digital zoom ON/OFF setting. s: Maximum 10× optical zoom (digital zoom disabled). t: Maximum 20× optical zoom (digital zoom disabled). u: Maximum 30× optical zoom (digital zoom disabled). Q: Maximum 30× optical zoom, digital zoom enabled (maximum 1500×). h Cannot be selected when the still image setting is set to G or t.

6 Remaining battery power indication (page 139) SETUP English 52 SWITCHING THE OPERATING MODE NORMAL Mode Playback Menu <Tab 1> 1 2 PLAYBACK MENU 1 SLIDESHOW PLAY VOLUME PROTECT 1 DELETE 2 ROTATE 3 EXIT OK 1 2 3 4 5 6 1 Slideshow (page 98) h Specify the slideshow settings and play the slideshow. 2 Playback volume (page 75) h Adjust the volume for video clip and audio file playback. 3 Protect (page 99) h File protect setting (delete prohibited) 4 Delete (page 76) h Delete files. 5 Rotate (page 101) h Rotate a still image. 6 Remaining battery power indication (page 139) 53 English <Tab 2> 1 2 1 2 3 PLAYBACK MENU 2 EDIT PHOTO EDIT VIDEO PRINT INSTRUCTIONS SELECT FOLDER COPY EXIT OK 1 2 3 4 5 6 SETUP 1 Edit photo (page 102) h Repair the "red-eye" caused by the flash, reduce the blur from camera shake, or enhance the contrast. 2 Video clip edit (page 103) h Edit video clips. 3 Printing instructions (page 113) h Specify the printing instructions (DPOF settings). 4 Select folder (page 80) 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 139) English 54 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 A finger is blocking the lens or flash. <Holding the camera> Example: 1 Insert your hand in the grip belt. 2 Enfold the camera in the palm of your hand to grip it. 3 Use your index finger to operate the zoom switch, and your thumb to operate the other controls. <Caution> i Due to the characteristics of the camera, the outer surface may become warm during use, but this does not indicate a malfunction. (In particular, the area indicated by gray in the figure may become hot.) i If the camera starts to feel uncomfortably hot during use, you might temporarily discontinue use until it cools down, or try holding it in your other hand for a while. Please use a tripod or other support when using the camera for a long time. 55 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 60). k Conditions that may cause incorrect focus The following examples are some of the situations where the autofocus function may not work.



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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. 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 56 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. 57 English HINT i Still images can be rotated when they are played back (pages 53 and 101). 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. *SIMPLE/SHOOTING* English 58 BEFORE TAKING PICTURES 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 38), select the recording size setting, and press the SET button. To keep in HDTV size 2M 2M HDTV size 2M [4:3] EXIT OK The video clip r: frames/sec. size is 1280 × 720 pixels, recorded at 30 i: The video clip size is 640 × 480 pixels, recorded at 30 frames/sec. 2 The captured still image size is 1600 × 1200 (4:3) pixels. The captured still image size is 1600 × 1200 (4:3) pixels. Select the desired video clip recording size, and press the SET button. h This completes the recording size setting.

59 English 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 38), select the focus setting, and press the SET button. *SIMPLE/SHOOTING* 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 1.0 m (3.28 ft.) (super macro). 2 Select the desired focus range, and press the SET button. h This completes the focus range setting. English 60 BEFORE TAKING PICTURES Hints for taking pictures Muting the operation sounds i The audio guidance that sounds when you operate the camera can be muted (page 120). 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. 61 English VIDEO CLIP RECORDING 1 2 Turn on the camera (page 30), and set it to the recording mode (page 36). 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 SIMPLE/SHOOTING 3 REC00:00:09 5 Available recording time remaining English 62 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 36). 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 2M Target mark 63 English 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 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 2M focusing on. i The camera automatically determines the correct focus by measuring from 9 different focus points within the shooting area. If the target mark is at a position that is F2.1 different from the point you wish to 1/30 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 (in the NORMAL mode) i By assigning an operation shortcut to the SET button (pages 122 and 126), 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 (pages 48 and 86) setting or scene select setting is changed, the focus lock is released. The shutter speed and aperture are displayed (in the NORMAL mode) i 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... (in the 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 (pages 48 and 65). i When shooting with the scene select function set to the fireworks + mode, the camera shake icon always appears, but this is normal.



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SIMPLE/SHOOTING English 64 SHOOTING SINGLE SHOTS 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 38), select the flash setting, and press the SET button. h The screen to select the flash operation appears. 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. 65 English 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 cannot be used during video clip recording. i By assigning an operation shortcut to the SET button (pages 122 and 126), you can change the flash mode from the Recording Screen (in the NORMAL mode). SIMPLE/SHOOTING English 66 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 36). Press the [] button. [] button [] button 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 0.9M REC 00:00:09 67 English 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 recording size (page 59), as well as on the video clip recording mode (page 82). 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) k (4:3) [(4:3)

SIMPLE/SHOOTING English 68 MACRO-PHOTOGRAPHY (ZOOM) Your camera has two zoom functions: optical zoom and digital zoom. 1 2 Point the camera lens at the subject. Push the zoom switch toward [T/] or [W/P] 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 moving the optical zoom, push the zoom switch lightly to zoom slowly, and press more strongly to zoom quickly. h When the optical zoom factor is at maximum, zooming stops temporarily. When the zoom switch is pushed toward the [T/] side again, the mode changes to the digital zoom mode and zooming continues (in the NORMAL mode). Take the picture.

For video clip recording, see page 62. For shooting single shots, see page 63. For shooting sequential shots, see page 85. Zoom switch [T/]/[W/P] Monitor When optical zoom only is enabled Pointer Zoom bar When both optical and digital zoom are enabled 3 Optical zoom Digital zoom (yellow) 69 English PLAYBACK SIMPLE/PLAYBACK PLAYING BACK VIDEO CLIPS AND STILL IMAGES 1 2 Set the camera to the playback mode (page 36). Select the image to play back.

h Toggle the SET button left, right, up or down to move the orange frame to the file you wish to play back. h The image information for the framed image is shown at the bottom of the screen. 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: Toggle the SET button down. During video clip playback: Toggle the SET button down once to stop video clip playback, and toggle the SET button down again. SIMPLE/PLAYBACK Orange frame 3 HD-SHQ 2009. 12.25 14:25 37.

6MB OK 100-0006 00:00:25 SET button English 70 PLAYING BACK VIDEO CLIPS AND STILL IMAGES Video clip playback operation To do this... Normal forward playback Stop playback Pause Do this Press the SET button. During playback, toggle the SET button down. During playback, press the SET button or toggle the SET button up. During accelerated playback, toggle the SET button up. To play back During forward After pausing playback, toggle the SET button one image playback to the right. at a time During reverse After pausing playback, toggle the SET button (singleplayback to the left. frame step) During forward After pausing playback, press and hold the playback SET button to the right.

Slow playback During reverse After pausing playback, press and hold the playback SET button to the left. During forward playback, toggle the SET button to the right. h The playback speed changes each time the Forward SET button is toggled to the right, as playback follows: Normal playback 2× 5× 10× 15× Toggle the SET button to the left to resume To normal playback speed. accelerate playback During forward playback, toggle the SET button to the left. h The playback speed changes each time the Reverse SET button is toggled to the left, as follows: playback 15× 10× 5× Toggle the SET button to the right to resume normal playback speed.

Return to normal playback Press the SET button. speed Louder: During playback, push the zoom switch toward the [T] side. Adjusting the volume Softer: During playback, push the zoom switch toward the [W] side. 71 English HINT If the a appears on the playback Screen..

. i The a icon appears when playing back a file that was saved in segments (page 83). Although playback of these multiple files is continuous, there is a slight pause at the point where the files are joined. SIMPLE/PLAYBACK English 72 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 screen to select the aspect ratio of the still image appears. Select the desired aspect ratio, and press the [] button. Note, however, that if the video clip aspect ratio is 4:3, you cannot select 16:9. HINT The file for a video clip 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 camera monitor or a television.)



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