



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SANYO VPC-CG88. You'll find the answers to all your questions on the SANYO VPC-CG88 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SANYO VPC-CG88
User guide SANYO VPC-CG88
Operating instructions SANYO VPC-CG88
Instructions for use SANYO VPC-CG88
Instruction manual SANYO VPC-CG88

SANYO

INSTRUCTION MANUAL

VPC-CG88EX
VPC-CG88GX
VPC-CG88TA
VPC-CG88PX
VPC-CG88

Dual Camera

Xacti 



Important note

This manual explains how to safely operate the VPC-CG88EX, VPC-CG88GX, VPC-CG88TA, VPC-CG88PX and VPC-CG88. 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:

@@@ To use the various camera features Please read the sections on "NORMAL" and "OPTION SETTINGS" in this manual. To connect the camera to a computer or view images on a TV, please read the section on "OTHER DEVICES AND CONNECTIONS" in this manual. To use additional features Visit the Sanyo website to learn how to adjust the camera settings for various shooting scenes. There you'll also find information about the software for playing back data recorded with your camera and for burning (recording) DVDs (page 152). You may find the answers to questions or problems concerning camera operation in the sections "COMMONLY ASKED QUESTIONS" (page 163) and "TROUBLESHOOTING" (page 171). 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. i English SHOOT, PLAY BACK AND SAVE Preparing the camera 1 Insert the battery pack. 3 Insert by matching the connector markings Connector markings 1 While pressing, push towards the bottom.

2 Open Battery cover 4 Close About saving your recorded data h If you wish to use an SD Memory Card, refer to page 24 to install the card in the camera. h An SD Memory Card is not included with your camera. Please purchase a commercially sold card. h This camera has an internal memory, so you can shoot and record without an SD Memory Card installed. English ii 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 34. 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 14M-S 10 000:00:14 iii 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 to move the orange frame to the image you wish to play back. h The image information for the framed image is shown in the bottom part of the monitor. REC/PLAY button SET button Full-HD Orange frame 6.

5MB SET OK 100-0006 00:00:05 Remaining battery power indication English iv 3 Press the SET button. <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. v English Copy data from your camera to the computer Connect your camera to a computer, and copy the desired data to the computer. 1 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 31).

h The USB Connection Screen appears on the camera's monitor. 2 USB CONNECTION COMPUTER PRINTER CANCEL CANCEL OK Supplied dedicated USB interface cable To USB connector on the computer To USB/AV terminal SET button English vi 3 Select "COMPUTER", and press the SET button. h The screen to select the USB CONNECTION computer connection mode CARD READER appears. MTP SCREEN CAPTURE PC CAMERA CANCEL OK 4 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. <If the access menu (page 154) appears> h Click on [Exit] to cancel the access menu. Select an action. h If the [XACTI (E:)] window appears automatically, select the desired procedure from the window.

Copy files from the camera to a computer. 5 6 vii English Dismounting the camera CAUTION i To disconnect your camera, be sure to follow the procedure below. Failure to follow this procedure may cause faulty operation of your computer or corrupt the files in your camera. 1 2 Left-click on the icon for safely removing hardware in the task tray. h A list appears showing the devices connected to the computer's USB connector. Left-click on the camera drive (E:). h The camera can now be disconnected. h The drive name (E:) may be different on your computer. No software is included with this camera. Please visit our website to obtain the available software.

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..... 191 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.

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prints, index print, and date imprint · "Printing instructions" on pages 54 and 115 View the settings that were in effect when the image/audio files were recorded · "FILE INFO DISPLAY" on page 119 9 English Using with a computer Basic operation Convenient functions Additional functions Use the camera as a card reader · "SETTING THE CONNECTION MODE" on page 143 · "USING AS A CARD READER" on page 146 Copy files from your camera to a computer · "Copy data from your camera to the computer" on page vi Playback · "About video clip files recorded with this camera" on page 150 Using as a webcam · "USING AS A PC CAMERA" on page 151 Record an image of the computer screen · "SCREEN CAPTURE" on page 162 English 10 CHECKING THE INCLUDED ACCESSORIES i Li-ion battery pack: 1 i Lithium-ion battery pack charger and power cord: 1 i Dedicated USB interface cable (page 143): 1 i Dedicated AV interface cable (page 156): 1 i Lens cap (page 13): 1 i Core: 1 For HDMI cable i SAFETY MANUAL (safety precautions booklet) Please read this booklet carefully before using the camera.



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i GUIDE FOR BASIC OPERATION 11 English i QUICK GUIDE i Obtaining the PDF instruction manual and cautions English 12 How to use the accessories k Lens cap 1 2 3 4 5 13 English ABOUT THE CARD 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 i SDXC Memory Card What "card" means in this manual i In this manual, SD Memory Cards, SDHC Memory Cards and SDXC Memory Cards that can be used in this dual camera are referred to as "card". English 14 GETTING THE MOST OUT OF YOUR CAMERA Your dual camera can record video clips in Full 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 "Full High Definition*" (pages 48 and 59) Your camera can capture full high definition (full HD) 1920 × 1080-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 highperformance camera. * "Full High Definition" by SANYO Dual Camera signifies recording at a resolution of 1920 pixels horizontally × 1080 pixels vertically. 15 English Includes SIMPLE mode for quick-and-easy operation (page 38) 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 OK <SIMPLE Mode Recording Menu> RECORDING MENU 1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER OK Full-HD 14M-S <NORMAL Mode Recording Menu> Image stabilizer for sharp pictures (pages 50 and 89) 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 on a subject. English 16 Capture clear images of the targeted subject (pages 52 and 95) Both the color chaser feature to target a specific color, and the face chaser feature to capture clear face shots, are provided. Eye-Fi smart By inserting a commercially sold Eye-Fi card (SD card with wireless LAN) in your camera, you can easily upload photos to your computer, a sharing site, etc. automatically via a Wi-Fi network. Also, you can transfer video files if your Eye-Fi card has a video upload function. Instructions for the Eye-Fi transfer feature can be found at the following website: <http://sanyo.com/xacti/english/> 17 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 Commercially available card i Card reader i DPOF-compatible printer i Photo shop English 18 SETUP SETUP PARTS NAMES Front Monitor unit Lens Stereo microphone Flash ON/OFF button HDMI terminal cover Bottom Tripod stand hole USB/AV terminal Battery cover 19 English Rear Speaker Monitor Multi-indicator SETUP ON/OFF button Card slot cover Strap holder [] button Zoom switch [T]/[W/P] [] button REC/PLAY button MENU button SET button English 20 CHARGING THE BATTERY PACK Please charge the supplied battery pack before using it. 1 Connect the supplied power cord to the socket on the battery pack charger.

h Insert the connector straight and securely. Battery pack charger Power cord 2 Insert the battery pack in the battery charger. h Insert it in the direction indicated by the [o] mark on the battery pack. Battery pack charger Battery pack [o] mark CHARGE indicator To power outlet 3 Plug the power plug into a power outlet (AC 100 V to 240 V). h Charging begins. h The CHARGE indicator is lit during charging. When the CHARGE indicator turns off, unplug the power cord from the power outlet, and remove the battery pack from the charger. 4 HINT i Charging takes approximately 120 min. 21 English Charging 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. Does the battery pack feel hot? i During charging, the charger and battery pack will be warm. This is normal and does not indicate a malfunction. If there is interference to your TV or radio during charging..

. i Move the battery pack and charger further away from the TV or radio. Ambient temperature during charging i It is recommended that the ambient temperature during charging be between about 10 °C and 35 °C (50 °F and 95 °F). Due to the characteristics of the battery pack, at temperatures below 0 °C (32 °F), it may not be possible to sufficiently charge it. i When the battery pack temperature is high, the safety function may be activated and halt charging.

Charge 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 FOR AMERICAN USERS: i Use a UL Listed, 1.8 to 3 m (6 to 10 ft.), Type SPT-2 or NiSPT-2, AWG No.18 power supply cord, rated for 125 V 7 A, with a non-polarized NEMA 1-15P plug rated for 125 V 15 A. SETUP English 22 About the CHARGE indicator The CHARGE indicator shows the status of the battery pack and the charger. Please refer to the following table if the indicator flashes abnormally. CHARGE indicator Not lit Not connected properly i To recharge the battery pack, the power cord of the charger must be connected to a power outlet, and the plug at the other end inserted in the charger's power socket (page 21). i The battery pack is not installed, or it is not installed correctly (page 21). Charging finished Charging Problem with the battery pack or battery pack charger i Immediately remove the battery pack from the charger. i Do not use an abnormal battery pack.

(The usable life of the battery pack has probably expired.) Lit Flashing 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 safety function may be activated and it may not be possible to charge the battery pack. Wait until the battery pack has cooled down before attempting to charge it. 23 English 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 126 and 137). If an unformatted card is used, the card itself may become unusable. 1 Insert the card. SETUP Monitor unit 1 Open Card slot cover 2 Open Card 3 Insert 4 Insert the card until clicks into place English 24 2 Close the card slot cover.



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Close <When removing 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. 2 Push in, then pull out 1 Open 25 English

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. SETUP English 26 INSTALLING THE BATTERY PACK Please charge the supplied battery pack before using it. 1 Open the battery cover. 1 While pressing, push towards the bottom. 2 Open Battery cover 2 Insert the battery pack. h Take care that it is positioned correctly. 3 Insert by matching the connector markings Connector markings 4 Close 27 English Installing the DC adaptor (sold separately: VAR-A3U/A3EX) 1 Insert 3 Close SETUP 2 Set the cord in the groove English 28 CAUTION 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. However, a battery that is difficult to insert because it has become swollen may then be impossible to extract from the battery compartment. In this case, please discontinue its use and replace it with a new battery. Do not use the battery with the outer covering or label removed i Doing so may result in malfunction.

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. 29 English 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).

SETUP English 30 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 briefly press the ON/OFF button, once, the camera will switch to the power save mode. h If you press the REC/PLAY button for at least 1 second, the camera turns on in the playback mode. Monitor unit ON/OFF button REC/PLAY button 31 English Turning off the camera 1 Press the ON/OFF button for at least 1 second. h The camera turns 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 [] button. h Open the monitor unit. 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 (optional) 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 126). i When the camera is connected to a computer or printer, the power save mode is not activated. After about 12 hours, the camera automatically turns off. SETUP English 32 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 34), 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.



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To have the date and time recorded with the images, please complete this setting before capturing images. 33 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. h To correct the date and time setting, please see under HINT on page 36. Example: To set the clock to 7:30 p.m. on December 24, 2010 1 Turn on the camera (page 31), 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 "2010/12/24".

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. 4 Press the SET button. SETUP CLOCK SET DATE TIME DISP 2010/04/01 00:00 D/M/Y OK 2 CLOCK SET DATE 2010/12/24 OK English 34 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 4 CLOCK SET DISP D/M/Y OK D/M/YY/M/DM/D/Y Toggle the SET button down to change it in the reverse order. 4 Press the SET button. 35 English 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 120). 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. SETUP English 36 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 31). Press the REC/PLAY button. h The mode changes. h The mode changes each time the REC/PLAY button is pressed. 14M-S 10 000:00:14 <Example of the recording mode> SD Full-HD 2010.12.24 6.5MB SET 18:41 100-0006 00:00:05 OK <Example of the playback mode> REC/PLAY button 37 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 31). 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 OK Operating mode icon <SIMPLE Mode Menu Screen> 1 2 3 1 2 3 Press SET button to switch to simple Menu SN OK Operating mode icon <NORMAL Mode Menu Screen> English 38 Accessing/exiting the SIMPLE/NORMAL Mode Menu Screen 1 2 3 Set the camera to the recording or playback mode (page 37). Select the desired operating mode (page 38).

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 SET OK <Example: SIMPLE Mode Recording Menu> 1 2 3 1 2 3 Press SET button to switch to simple Menu SET SN OK MENU button <Example: NORMAL Mode Recording Menu> 39 English 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. SETUP Select an item to change Description of selected item Select video and photo size Push up Push down SN SET OK To keep in HDTV size 14M 2M Press HDTV size 14M [4:3] SET SET OK <Setting Screen> English 40 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 RECORDING MENU 1 1 2 VIDEO 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER SET OK SN Full-HD 14M-S Push up Push down Option tab 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 SET OK Full-HD 14M-S 41 English 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 RECORDING MENU 1 1 VIDEO 2 3 PHOTO SCENE SELECT 1 FILTER 2 FLASH 3 SELF-TIMER SET OK SETUP Full-HD 14M-S Push up Push down Applicable mode Press 16M 12M 14M-H 14M-S 10M 2M 4640x3480 4608x2592[16:9] 4352x3264 4352x3264 4352x2448[16:9] 1920x1080[16:9] SET OK <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 42 Overview of the SIMPLE Mode Setting Screen SIMPLE Mode Recording Menu Select video and photo size 1 2 3 4 SN OK 5 43 English 1 Recording size (page 59) h Select the video clip size to record. 9 : The video clip size is 1920 × 1080 pixels, recorded at 60 fields/sec.



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The captured still image size is 4352 × 3264 pixels (4:3 aspect ratio). & 3 Flash (page 66) 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 : The video clip size is 640 × 480 pixels, recorded at 30 frames/sec. The captured still image size is 1600 × 1200 pixels (4:3 aspect ratio). SN (page 38) h Set to the NORMAL mode.

5 Remaining battery power indication (page 140) 4 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 80 cm (31.50 in.) (super macro). English 44 SIMPLE Mode Playback Menu 4 1 2 3 SN Start slideshow OK 5 45 English 1 Slideshow (page 75) h Specify the slideshow settings and play the slideshow. 2 Playback volume (page 76) h Adjust the volume for video clip and audio file playback. 3 Delete (page 77) h Delete files. 4 S N (page 38) h Set to the NORMAL mode. 5 Remaining battery power indication (page 140) SETUP English 46 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 OK Full-HD 14M-S 1 2 3 4 5 6 7 47 English 1 Video clip settings (page 83) <HD mode> !: Record at 1920 × 1080 pixels, 60 fields/s (60i). Y: Record at 1920 × 1080 pixels, 30 fps (30p).

": Record at 1280 × 720 pixels, 60 fps (60p). &: Record at 1280 × 720 pixels, 30 fps (30p). <SD mode>): Record at 640 × 480 pixels, 30 fps. <: Make an audio recording. 2 Still image settings (page 86) <Single-shot> 4: Image size is 4640 × 3480 pixels. 5: Image size is 4608 × 2592 pixels (16:9 aspect ratio). 6: Image size is 4352 × 3264 pixels (low compression). 7: Image size is 4352 × 3264 pixels (normal compression). 8: Image size is 4352 × 2448 pixels (16:9 aspect ratio). +: Image size is 1920 × 1080 pixels (16:9 aspect ratio).

G: Image size is 1600 × 1200 pixels. :: Image size is 1280 × 720 pixels (16:9 aspect ratio). I: Image size is 640 × 480 pixels. <Sequential shots> :: 4352 × 3264-pixel sequential shots. t: 1600 × 1200-pixel sequential shots.

3 Scene select (page 87) =: 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 87) &: 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 88) 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 140) SETUP English 48 <Tab 2> 1 RECORDING MENU 2 VIDEO STABILIZER 2 PHOTO STABILIZER 3 FOCUS 1 FOCUS MODE 2 EXP MEASURE 3 ISO OK 1 2 3 4 5 6 7 49 English 1 Video stabilizer (page 89) h Compensate for camera shake during video clip recording. \: Record with image stabilizer on.]: Record without image stabilizer. 2 Photo stabilizer (page 89) h Compensate for camera shake during still image shooting. \: Shoot with image stabilizer on.]: Shoot without image stabilizer. 3 Focus range (page 90) 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 80 cm (31.50 in.) (super macro). 4 Focus area (page 91) B: 9-point range finder focus C: Spot focus 5 Light-measuring mode (page 91) X: Multi-section light measuring W: Center-weighted light measuring Y: Spot light-measuring 6 ISO sensitivity (page 92) =: Sensitivity is set automatically (video clip recording: ISO 50 to 800; still image shooting: ISO 50 to 400) *: 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. 7 Remaining battery power indication (page 140) SETUP English 50 <Tab 3> 1 RECORDING MENU 3 2 WHITE BALANCE 3 EXPOSURE TARGET A SUBJECT 1 HIGH SENSITIVITY 2 DIGITAL ZOOM 3 REC FOLDER OK 1 2 3 4 5 6 7 51 English 1 White balance (page 93) >: 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 94) @: 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 Subject chaser (page 95) Automatically target a specific color with the color chaser function, or capture sharp face shots with the face chaser function. -: Enable face chaser. (: Enable color chaser.): Disable face chaser and color chaser. 4 High sensitivity mode (page 98) 1: Increased sensitivity. 2: Normal sensitivity. 5 Digital zoom (page 70) Q: Enable the digital zoom. B: Disable the digital zoom. 6 Rec folder setting (page 100) 7 Remaining battery power indication (page 140) SETUP English 52 NORMAL Mode Playback Menu <Tab 1> 1 2 PLAYBACK MENU 1 SLIDESHOW PLAY VOLUME PROTECT 1 DELETE 2 ROTATE 3 RESIZE OK 1 2 3 4 5 6 7 1 Slideshow (page 101) h Specify the slideshow settings and play the slideshow. 2 Playback volume (page 76) h Adjust the volume for video clip and audio file playback. 3 Protect (page 102) h File protect setting (delete prohibited) 4 Delete (page 77) h Delete files. 5 Rotate (page 104) h Rotate a still image.

6 Resize (page 104) h Reduce the resolution of a still image. 7 Remaining battery power indication (page 140) 53 English <Tab 2> 1 2 1 2 3 PLAYBACK MENU 2 EDIT PHOTO VIDEO PRINT INSTRUCTIONS SELECT FOLDER COPY OK 1 2 3 4 5 6 SETUP 1 Edit photo (page 105) h Repair the "red-eye" caused by the flash, or enhance the contrast (still images only). 2 Video clip edit (page 106) h Edit video clips. 3 Printing instructions (page 115) h Specify the printing instructions (DPOF settings).



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4 Select folder (page 81) 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 140) 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 <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. A finger is blocking the lens or flash. Example 2: Grip the camera by wrapping the fingers of the right hand, from the little finger to the index finger, around the camera.

Make sure that the lens and flash unit are not blocked by your fingers or the handstrap. <Caution> i Due to the characteristics of the camera, the outer surface may become warm during use, but this does not indicate a malfunction. 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. 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 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 104). 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 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 39), select the recording size setting, and press the SET button.

To keep in HDTV size 14M 2M HDTV size 14M [4:3] OK 9: The video clip size is 1920 × 1080 pixels, recorded at 60 fields/sec. & 2 The captured still image size is 4352 × 3264 pixels (4:3 aspect ratio). : The video clip size is 640 × 480 pixels, recorded at 30 frames/sec. The captured still image size is 1600 × 1200 pixels (4:3 aspect ratio). Select the desired 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 39), select the focus setting, and press the SET button. SIMPLE/SHOOTING All ranges Automatic focus (people, landscape, etc.) 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. English 60 Hints for taking pictures Muting the operation sounds i The audio guidance that sounds when you operate the camera can be muted (page 122).

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 31), and set it to the recording mode (page 37). 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 Full-HD REC 00:00:09 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 31), and set it to the recording mode (page 37). 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 14M-S F5.6 1/30 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.



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What is the camera focusing on? Target mark i A target mark & on the monitor shows the area the camera is 14M-S 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 F3.6 1/2 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 (in the NORMAL mode) i By assigning an operation shortcut to the SET button (pages 124 and 127), 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 87) 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. SIMPLE/SHOOTING English 64 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 44 and 66). i When shooting with the scene select function set to the fireworks + mode, the camera shake icon always appears, but this is normal. Does it seem to take a long time to save images? i When shooting in dimly lit conditions, it may take some time to save the data to the card. 65 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 39), select the flash setting, and press the SET button. h The screen to select the flash operation appears.

SIMPLE/SHOOTING Auto flash Flash operates automatically 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 66 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 124 and 127), you can change the flash mode from the Recording Screen (NORMAL mode).

67 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 31), and set it to the recording mode (page 37). 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 2M Full-HD REC 000:00:09 REC000:00:09 English 68 HINT i When shooting a still image while recording a video clip, the flash does not operate. i The photo stabilizer (pages 50 and 89) is inoperative. 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 83). 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 !Y "&) h It is not possible to capture sequential shots. Still image recording size + , [69 English 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 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.

Take the picture. For video clip recording, see page 62. For shooting single shots, see page 63. For shooting sequential shots, see page 86. Zoom switch [T]/[W/P] SIMPLE/SHOOTING Monitor Zoom bar When both optical and digital zoom are enabled 3 Optical zoom Digital zoom (yellow) When optical zoom only is enabled Pointer English 70 PLAYBACK SIMPLE/PLAYBACK PLAYING BACK VIDEO CLIPS AND STILL IMAGES 1 2 Set the camera to the playback mode (page 37).

Orange frame Select the image to play back. h Toggle the SET button 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> Toggle the SET button down. SD 2010.12.24 Full-HD 6.5MB SET 18:41 3 OK 100-0006 00:00:05 SET button 71 English 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 follows: playback Normal playback 2× 5× 10× 15× Toggle the SET button to the left to resume To normal playback speed.



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accelerate During forward playback, toggle the SET playback 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. SIMPLE/PLAYBACK English 72 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 84). 73 English 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. SIMPLE/PLAYBACK HINT The file size 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.) i Depending on the card, recording may end even before the possible recording time indicated.

Display the video clip playback point i During video clip playback, press the MENU button for at least 1 second to display a bar showing the current playback point in the video clip. i Press the MENU button for about 1 second to cancel the bar. CAUTION During video clip playback, the sound of a motor is audible..

. i During recording, the sound of the optical zoom movement or autofocus movement was recorded. This is not a malfunction. If no audio is heard... i The audio is not played back when the video clip is played back in the frame-by-frame, slow-motion, fast playback or reverse playback mode. English 74

SLIDESHOW PLAYBACK You can play back files in succession with the "slideshow playback" feature. 1 Display the SIMPLE Mode Playback Menu (page 39), select the slideshow setting, and press the SET button. =: Play back all files.

3: Play back video clips and audio files. c: Play back still image files. SLIDESHOW ALL VIDEO PHOTO START 2 Select the type of file to play back, and press the SET button. h Slideshow playback begins. h To stop slideshow playback, press the SET button or MENU button.

HINT About the slideshow settings i The slideshow settings can be changed from the NORMAL Mode Playback Menu (page 101). 75 English PLAYBACK

VOLUME Adjust the playback volume for video clips and audio files. 1 Display the SIMPLE Mode Playback Menu (page 39), select the playback volume setting, and press the SET button. h The volume control bar appears. PLAY VOLUME SIMPLE/PLAYBACK 4 2 Toggle the SET button to the left or right to set the volume, and press the SET button.

h The playback volume is set, and the display returns to the SIMPLE Mode Playback Menu. VOLUME SETTING HINT The volume can be adjusted during playback i During video clip or audio file playback, if you push the zoom switch toward [T/] or [W/P], the volume control bar will appear, allowing you to adjust the volume. In the NORMAL mode i When you select "PLAY VOLUME" from the NORMAL Mode Playback Menu and press the SET button, the volume control bar appears. English 76 DELETING FILES You can delete files if you no longer need them. You can delete single files, selected files or all the files at one time. Delete single/delete all/delete folder 1 Display the SIMPLE Mode DELETE Playback Menu (page 39), select the delete setting, and press the

DELETE SINGLE SET button. DELETE SELECTED DELETE SINGLE: DELETE ALL Deletes one file at a time. DELETE FOLDER DELETE SELECTED: Deletes the selected files OK (page 78). DELETE ALL: Deletes all files. DELETE FOLDER: Delete the folder and all the files in the folder.

2 Select the desired delete mode, and press the SET button. h The Delete Confirmation Screen appears. <DELETE SINGLE> h Toggle the SET button to the left or right to select the file you wish to delete. h There is no confirmation screen when deleting single files. Please make sure that the displayed image is one you wish to delete. <DELETE ALL> h Toggle the SET button to the left or right to confirm the files to delete. <DELETE FOLDER> h Toggle the SET button up or down to select the folder you wish to delete. 77 English 3 Select "DELETE", and press the SET button. <DELETE SINGLE> h The currently displayed file is deleted. h To delete other files, select the files, select "DELETE" and press the SET button.

<DELETE ALL, DELETE FOLDER> h The Delete Confirmation Screen again appears. To delete the files, select "DELETE" and press the SET button. Then select "YES" and press the SET button, and the files will be deleted. When file delete is completed, "No image" is shown. SIMPLE/PLAYBACK Delete selected Delete selected files.

1 2 Display the SIMPLE Mode Playback Menu (page 39), select the delete setting, and press the SET button. Select "DELETE SELECTED", and press the SET button. h The screen to select files to delete appears. 2010. 12.

25 14:25 Full-HD 37.6MB OK DELETE 100-0006 00:00:25 SD 3 Select an image you wish to delete. h Toggle the SET button left, right, up or down to move the orange frame to the file you wish to delete. English 78 4 Press the SET button. h The selected file is marked with the delete icon []. h Up to 100 files can be selected. h To cancel a delete selection and remove the delete icon from a file, move the orange frame to the marked file and press the SET button. Press the [] or [] button. h The Confirm Delete Screen appears. Select "YES", and press the SET button.

h The selected files are deleted. 5 6 HINT In the NORMAL mode i When you select "DELETE" from the NORMAL Mode Playback Menu and press the SET button, the Delete Screen appears. CAUTION i Files that are protected from accidental delete cannot be deleted. To delete protected files, set the protect setting for the files to off (pages 53 and 102), and then follow the file delete procedure. 79 English PLAYBACK MODES 21-image display playback 1 2 3

Display the image you wish to play back. Push the zoom switch toward the [W/P] side. h The 21-image display appears. Select the image to play back. h Toggle the SET button left, right, up or down to move the orange frame to the desired image, and press the SET button. h Pushing the zoom switch toward the [T/] side will show the 8-image display.

h If the zoom switch is pushed toward the [W/P] side while the 21-image display is shown, the display changes to the screen to select the playback folder (page 81).



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