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You can read the recommendations in the user guide, the technical guide or the installation guide for SANYO VPC-E1090. You'll find the answers to all your questions on the SANYO VPC-E1090 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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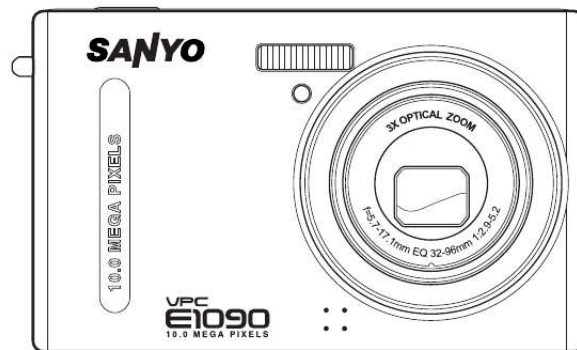
SANYO

INSTRUCTION MANUAL

VPC-E1090

Digital Camera

10 Mega Pixels



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Manual abstract:

@@@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: · Reorient or relocate the receiving antenna. @@@@Use only shielded cable to connect I/O devices to this equipment. @@Operation is subject to the following conditions: · This device may not cause harmful interference. · This device must accept any interference received, including interference that may cause undesired operation. English Trademark Recognition Windows 2000/XP/Vista are registered trademarks of Microsoft Corporation in the United States and/or other countries. Windows is an abbreviated term referring to the Microsoft Windows Operation System. Adobe is a trademark of Adobe Corporation.

ArcSoft is the trademark of ArcSoft System, Inc. All other companies or product names are trademarks or registered trademarks of their respective companies. Safety and Handling Precautions Camera Information ···· Do not take apart or attempt to service the camera yourself. Do not expose the camera to moisture, or extreme temperatures. Allow the camera to warm up when moving from cold to warm temperatures.

Do not touch the camera lens. Do not expose the lens to direct sunlight for extended periods. Do not use abrasive chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth. Battery Information · Turn off the camera before installing or removing the battery.

· Use only the type of battery (SANYO Li-ion battery, Type NP40, 3.7V, 720mAh). Using other types of battery may damage the equipment and invalidate the warranty. · Inserting the battery upside down can cause damage to the product and possibly start a fire. · Download all pictures and remove the battery from the camera if you are going to store the camera for long periods. Safety and Handling Precautions Preface iii Read and understand all Warnings and Cautions before using this product. WARNING Do not disassemble, change or repair the camera. This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase. Do not use the camera in areas near water.

This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore. Do not place the camera on inclined or unstable surfaces. This might cause the camera to fall or tilt over, causing injury. Keep the battery out of the reach of children. Swallowing battery might cause poisoning. If the battery is accidentally swallowed, immediately consult a physician. Do not use the camera while you are walking, driving or riding a vehicle. This might cause you to fall over or result in traffic accident. CAUTION Insert the battery paying careful attention to the polarity (+ or -) of the terminals. Inserting the battery with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking. Do not fire the flash close to anyone's eyes. This might cause damage to the person's eyesight. Do not subject the LCD monitor to impact. This might damage the glass on the screen or cause the internal fluid to leak.

If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment. A camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the camera. This might cause damage to the camera.

Do not use the camera in humid, steamy, smoky, or dusty places. This might cause fire or electric shock. Do not remove the battery immediately after long period of continuous use. The battery becomes hot during use. Touching a hot battery might cause burns. Safety Instructions English Safety Instructions iv Preface Do not wrap the camera or place it in cloth or blankets. This might cause heat to build up and deform the case, resulting in fire. Use the camera in a wellventilated place. Do not leave the camera in places where the temperature may rise significantly, such as inside a car. This might adversely affect the case or the parts inside, resulting in fire.

Before you move the camera, disconnect cords and cables. Failure to do this might damage cords and cables, resulting in fire and electric shock. English Warning: TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE FOR AMERICAN USERS The following advisory is included in accordance with the laws of the State of California (USA): WARNING: This product contains chemicals, including lead, known to the States of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling. · 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 designated 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 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: * Reorient or relocate the receiving antenna. * Increase the separation between the equipment and receiver.

* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. * Consult the dealer or an experienced radio/TV technician for help. · Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. FOR CANADIAN USERS This Class B digital apparatus complies with Canadian ICES-003 Safety Instructions Preface v 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.



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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! Manufacturer and Address SANYO Electric Co.

, Ltd. 5-5, Keihan-hondori, 2-chome, Moriguchi City, Osaka, Japan Authorized Representative and Address SANYO FISHER Sales (Europe) GmbH Stahlgruberring 4, D-81829 Munich, Germany Symbols used in this manual Points giving some extended instructions or special points to pay attention to. You may find the answers to questions or problems concerning camera operation in the sections "Troubleshooting". FCC Information Tested To Comply with FCC Standards FOR HOME OR OFFICE USE Declaration of Conformity Model number: VPC-E1090 Trade name: SANYO Safety Instructions English vi Preface 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. English Canadian ICES-003 Information This class B digital apparatus complies with Canadian ICES-003. TRADEMARK INFORMATION Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.

Pentium® is a registered trademark of Intel Corporation. Macintosh® is a trademark of Apple Computer, Inc. SDTM is a trademark. . SDHCTM is a trademark. . Other names and products may be trademarks or registered trademarks of their respective owners. READ THIS FIRST Notice: . Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product. . The product and accessories that come with your camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences.

Products very often vary between retailers especially with accessories such as batteries, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories. . The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your camera. . The manufacturer assumes no liability for any errors or discrepancies in this user manual.

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..... 57 Introduction 1 Congratulations on the purchase of your new digital camera. This manual provides step-by-step instructions on how to use your camera, and is intended for your reference only. System Requirements In order to get the most out of your camera, your computer must meet the following system requirements: · OS: Windows 2000/XP/Vista · Memory: 128 MB or above · HDD space: 40 MB or above · USB port Package Contents Check the contents of your camera package. It should contain: · Digital camera · USB/AV 3-in-1 cable · Wrist strap · One Li-ion battery · AC Adapter · Camera pouch · Quick start guide for all regions · Bundled CD-ROM (Application Software and User's Manual for all regions) Main Features 10.

0 mega pixels resolution 15x zoom (Up to 3x optical zoom and 5x digital zoom) 1/2.33 inch CCD image sensor 2.7 inch TFT LCD monitor 16MB internal flash memory, support SD/SDHC memory card from 32MB to 16GB. Sleek and slim design System Requirements English Introduction 2 Introduction Easy-to-use button interface PictBridge compatibility Slideshow feature to review your pictures and movies AV output to view your pictures and movies on your TV USB port to transfer photos and movies to your PC English Camera Views Front View Flash Wrist strap loop Self-timer LED Zoom lens Microphone Back View Zoom button Playback button Menu button 4-way navigation buttons OK button Scene button LCD screen Camera Views Introduction 3 Top View / Bottom View Zoom lens Shutter button Power button Tripod mount Left / Right View Wrist strap loop Speaker Battery/SD card compartment USB/AV port DC-in port Camera Views English 4 Introduction LED Indicators LED Power/ Flash LED LED Status Off Blue (steady) Blue (blinking) Off Red (blinking) (10 sec) Red (blinking) (2 sec) Camera Status Power Off Ready to take picture Camera busy/normal battery charging in slow blink/over heat caution while battery is charged Self-timer off Timer count down, flash after 10 seconds Timer count down, flash after 2 seconds English Self-timer LED Camera Buttons Navigation Buttons The 4-way navigation buttons and the OK button allow you to access the various options available from the On Screen Display (OSD) menu.



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You can configure a wide range of settings to ensure maximum results from your photos and videos.

Icon Button Function 1. Confirm a selection when using the OSD menus 2. In Capture mode: · Press to enable/disable the Anti-Shake in Auto mode · Press to enable AF area selection using 4-way navigation buttons (except Auto/Video/Landscape/ Night Landscape/Self Portrait/Fireworks) 3. In Playback mode: · Press to start and pause the video playback · Press to stop the voice memo playback 4. In USB mode: · MSDC: N/A · PTP: Press to confirm the selection 5. In Video mode: · Press to enable/disable the anti-shake function OK/ OK/ ANTI-SHAKE LED Indicators Introduction 5 Icon Button Function 1. Move up in the OSD menus 2. In Capture mode: · Scroll through the flash mode options (Auto, Off, Fill and Anti Red-eye) · Press to pan up in AF area selection · Press to delete in QUICK VIEW (QV) "ON" at UP/FLASH/ DELETE SETUP mode during mark appears on LCD RIGHT/ SELF-TIMER/ BURST MODE 3. In Playback mode: · Press to pan up in zoom in mode · Press to move up in the thumbnail display · Press to delete images 4. In USB mode: · MSDC: N/A · PTP: Press to scroll up through a menu 1. Move right in the OSD menus 2. In Capture mode: · Press to scroll through the Self-timer/Burst/MultiBurst mode · Press to pan right in AF area selection 3. In Video mode: · Press to scroll through the Self-timer options 4. In Playback mode: · Press to pan right in zoom in mode · Press to navigate to next image in single up · Press to move right in the thumbnail display · Press to fast forward video playback during Pause mode 5. In USB mode: · MSDC: N/A · PTP: Press to select the next image in This Image submenu Camera Buttons English 6 Introduction Icon Button Function 1.

Move down in the OSD menus 2. In Capture mode: · Press to scroll through histogram, face detection, smile detection, extra icons disappear and all icons turn back on LCD screen · Press to pan down in AF area selection English DOWN/ SCREEN/ FACE DETECTION/ SMILE DETECTION Camera Buttons Note: Face and smile detection functions are not available in Sport, Landscape, Night Landscape, Fireworks, Foliage and Copy modes. 3. In Video mode: · Press to turn off extra icons on the LCD screen, press again to turn all icons back on the LCD screen 4. In Playback mode: · Press to pan down in zoom in mode · Press to move down in the thumbnail display · Press to show the file information 5. In USB mode: · MSDC: N/A · PTP: Press to scroll down through a menu Introduction 7 Icon Button Function 1. Move left in the OSD menus 2. Go up to the previous level in the OSD menus 3. In Capture mode: · Press to enable Macro mode. Macro icon displays on the LCD screen · Press to pan left in AF area selection 4.

In Playback mode: · Press to pan left in zoom in mode · Press to navigate to previous image in single up · Press to move left in the thumbnail display · Press to fast rewind video playback during Pause mode 5. In USB mode: · MSDC: N/A · PTP: Press to select the previous image in This Image submenu LEFT/MACRO The Scene Button The camera is equipped with a convenient SCENE button that takes you to the Scene Menu where you can scroll between different modes and choose different scene options. Use the LEFT/RIGHT/UP/DOWN navigation buttons to scroll and use the OK button to select. Use the SCENE button to: Mode Type Auto P-Mode (Program Mode) Sport Landscape Night Landscape Portrait Icon Function Scroll to Auto mode Scroll to Program mode Scroll to Sport mode Scroll to Landscape mode Scroll to Night Landscape mode Scroll to Portrait mode Camera Buttons English 8 Introduction Self Portrait Night Portrait Museum Snow Sunset Fireworks Beach Party Foliage Kids & Pets Copy Backlight Video Scroll to Self Portrait mode Scroll to Night Portrait mode Scroll to Museum mode Scroll to Snow mode Scroll to Sunset mode Scroll to Fireworks mode Scroll to Beach mode Scroll to Party mode Scroll to Foliage mode Scroll to Kids & Pets mode Scroll to Copy mode Scroll to Backlight mode Scroll to Video mode English Camera Buttons Introduction 9 Function Buttons Icon MENU Button MENU PLAYBACK Function Press to display the Menu options Press to review photos/videos clips saved in the internal memory or on the memory card In Capture mode: · Press to zoom in on subject to be taken In Playback mode: · Press to zoom in on saved photos In Capture mode: · Press to zoom out from the subject to be taken In Playback mode: · Press to zoom out of saved photos · Press to view thumbnails of all current saved media T/ ZOOM IN W/ ZOOM OUT Camera Buttons English 10 Introduction LCD screen The high resolution 2.7" TFT LCD screen shows all important information regarding camera settings as well as the visual image for your photo or video.

Use the SCENE button to switch between screen modes. Press the DOWN/SCREEN FACE DETECTION /SMILE DETECTION button to switch between a full display (all icons are displayed) and a simple display (only mode icon and focus area are shown while other icons are hidden). / English Capture/Video Mode Display Capture Mode 1 2 3 4 5 6 7 8 9999 Video Mode 9 10 11 24 23 12 22 12 1 2 5 8 00:00 9 26 25 24 23 22 21 20 8M 640 11 1/125 F5.5 -1.0EV 13 16 19 18 17 16 15 14 No.

1 Name Scene indicator Auto P-Mode Sport Landscape Night Landscape Portrait Scene Icon LCD screen Introduction 11 Self Portrait Night Portrait Museum Snow Sunset Fireworks Beach Party Foliage Kids & Pets Copy Backlight Video 2 Image Resolution 10M 8.9M 3:2 8M 5M 3M 2.1M 16:9 2M VGA LCD screen English 12 Introduction Best 3 Image Quality Better Good Auto Flash 4 Flash Flash Off Fill Flash Anti Red-eye Self Timer Burst Mode M-Burst AEB Bracket Exit Macro Mode Capture Mode Video Mode SD/SDHC Card Internal Memory Quantity Time 9999 00:00:00 OFF +/- 0.3 EV 10 Seconds 2 Seconds English 5 Self-timer/ Burst mode 6 7 8 9 10 11 AEB Macro indicator Image Counter Memory Interface Date Stamp Anti-Shake LCD screen Introduction 13 12 Zoom Bar - 13 14 15 16 17 EV Compensation Aperture Value (Max.) Shutter Speed Battery Indicator AF Frame Battery Full Battery Low Battery Insufficient Auto ISO 80 ISO 100 -2.0EV ~ +2.0EV F2.9/F5.2 2 ~ 1/2000 sec. (Blink) - 18 ISO Speed ISO 200 ISO 400 ISO 800 ISO 1600 Multi-Zone 19 Focus Zone Center Selected Area LCD screen English 14 Introduction High English 20 Sharpness Normal Low High 21 Contrast Normal Low High 22 Saturation Normal Low Auto Sunny 23 White Balance Tungsten Fluorescent Cloudy Matrix 24 AE Metering Camera Steady Warning Spot Average 25 - LCD screen Camera Setup 15 Attaching the Wrist Strap Follow these instructions to attach the wrist strap to your camera to facilitate easy carrying: 1.



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Insert the short loop of the strap in the strap eyelet. 2. String the larger loop of the strap through the short loop and pull tight to attach the strap to the camera. Inserting the Battery Follow these instructions to insert one Li-ion battery into the battery compartment. 1. Open the battery compartment on the left of the camera. 2. Insert the battery into the compartment observing the correct polarity. (Label side up) 3. Close the battery compartment.

Note: Use SANYO Li-ion battery, Type NP40, 3.7V, 720mAh and the battery should be fully charged before using for the first time. Attaching the Wrist Strap English Camera Setup 16 Camera Setup Inserting an SD/SDHC Memory Card The camera features 16 MB internal flash memory but you may also use an optional SD/SDHC memory card for additional storage. Follow these instructions to insert the SD/SDHC card. 1.

Open the battery compartment on the left of the camera. English 2. Insert the SD/SDHC card into the memory card slot as shown. (Label side up) 3. Close the battery compartment.

To remove the SD/SDHC card, gently push the card until it pops out. Pull out the card carefully. Note: Please do not take in and out the SD/SDHC card while camera is processing. It will make unexpected error or image damaged. Inserting an SD/SDHC Memory Card Camera Setup 17 1. Insert the battery into the camera and connect the DC power supply cable with the power adapter as shown in the picture. 2. Connect the power adapter to a live household outlet to start charging. The power LED will blink during the charging process. 3.

Disconnect the DC power supply cable when the charging is done. When the charging is done, Power LED turns off. Charging the Battery with USB power 1. 2. 3. 4. Turn the power off and connect the USB cable with the camera and the computer. The power LED will blink during the charging process. The power LED will turn off automatically when the charging is done. Disconnect the USB cable.

Note: 1. The room temperature suitable for charging the camera is 6°C ~ 36°C. Power LED blinks during the charge and turns off automatically after the charge. 2. The battery does not charge when room temperature exceeds 36°C or falls below 6°C.

Power LED will blink faster. The battery does not charge again automatically even when the temperature comes back to 6°C ~ 36°C, once the charge stops by higher or lower temperature. 3. Press the OK button. Select each field and adjust the value using the navigation buttons.

1. The camera automatically adjusts the focus and exposure. The focus bracket turns green when ready. 2. Press fully and hold the SHUTTER button to capture the image. Press the LEFT/MACRO navigation button. The Macro icon displays on the LCD screen. Auto flash: The flash fires automatically when needed. Flash off: The flash is turned off. Fill flash: The flash always fires.

To use the zoom: 1. Press the right side of the ZOOM button T 2. Press the left side of the ZOOM button W to zoom in on your subject.

2. Once you have selected an option, frame and take your shot. 3. After taking a photo, the self-timer automatically exit.

This function is only available in Auto and P-Mode. To set the AEB mode: 1. Press the MENU button to display menu options.

2. 0.3EV BRACKET 3. When taking AEB shots, hold the camera steadily. For the best result, use the tripod.

Each setting is configured automatically by the camera. 1. Then the camera automatically adjusts the focus point and exposure to the optimized value. Press the SHUTTER button all the way to take pictures of detected faces.

When a detected face smiles, the shutter is automatically released. However, when the camera fails to detect your subject's face, a white focus bracket will be displayed according to the selected focus mode. Taking your First Photo Getting Started 23 To disable the face and smile detection function, press the DOWN/SCREEN DETECTION /SMILE DETECTION navigation button again. /FACE Using the Self Portrait Mode The up-to-date Self Portrait function allows you to take self-portrait shots. When enabling the Self Portrait function, a white detection frame will appear and track your face automatically. After focus on, it will take a shot without pressing the SHUTTER button. To take a self-portrait shot: 1. Press the SCENE button and select Self Portrait mode, and then press the OK button to confirm. The Self Portrait icon displays on the LCD screen. 2.

Turn the camera lens toward your face. 3. The camera will automatically take a picture. This function is available in any flash mode. Note: 1. The SHUTTER button, Macro mode, Self-timer and Burst functions could not work when enable the Self Portrait mode. Also, the DOWN navigation button is only for switching between Simple and Face modes. 2. The white focus frame only works within the effective blue frame. Recording your First Video You can also record video clips with the camera.

To record a video clip: 1. Turn the camera on and press the SCENE button. Use the 4-way navigation buttons to locate Video mode. Press the OK button to select. 2.

Frame your subject using the LCD screen and press the SHUTTER button to start recording. The self-timer LED is steady on to indicate recording is in progress. 3. Press the SHUTTER button again to stop recording. 4.

In playback mode (Press the UP/FLASH needed. button), press the OK button to playback the video. navigation button to delete the video clip if /DELETE Using the Self Portrait Mode English 24 Getting Started Recording Voice Memos The voice memo should be activated (ON) on the VOICE MEMO submenu of SETUP menu at first. In Capture mode: You can add a 1-minute voice memo to an image right after it's taken. 1. Hold the SHUTTER button to start recording and release the SHUTTER button to stop recording. 2. While recording, the captured image and the elapsed time are shown on the LCD screen. 3. For the playback, press the button, and the playback of the voice memo automatically starts.

4. Press the OK button once for playback again. In Playback mode: 1. Press the SHUTTER button to start recording and press again to stop recording. 2. While recording, the selected image and the elapsed time are shown on the LCD screen. 3. The playback of the voice memo automatically starts. 4. Press the OK button once for playback again.

English Recording Voice Memos Capture Settings 25 This section describes the various settings you can modify to get better results when taking photos and video clips. The Capture Menu To access the Capture menu: 1. Press the SCENE button. Use the 4-way navigation buttons to select the capture mode you need, then press the OK button to confirm. 2.

Press the MENU button to display menu options and use the LEFT/RIGHT navigation buttons to select the function you need, then press the OK button to enter the selection function. 3. Press the UP/DOWN navigation buttons to highlight an option and press the OK button to confirm.



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10M 10M 8.9M 3:2 8M 5M IMAGE RESOLUTION 10M 10M 8.

9M 3:2 8M 5M IMAGE RESOLUTION 4. Refer to the following sections for more detailed information about each setting. Note: All the options in this section may vary according to the different modes. The Capture Menu English Capture Settings 26 Capture Settings Image Resolution English The Image Resolution setting refers to the size of the image in pixels. Use the UP/DOWN navigation buttons to select from the options. @@The higher image quality, more memory space is required. Use the UP/DOWN navigation buttons to select from the options. @@@@Use the UP/DOWN navigation buttons to modify the value. @@Use the UP/DOWN navigation buttons to select from the options. @@White balance represents the degree of coolness of the light.

@@You can select the setting and preview it on screen before confirming your choice. Use the UP/DOWN navigation buttons to select from the options. 5 white balance settings are available: · AUTO (default) · SUNNY · TUNGSTEN · FLUORESCENT · CLOUDY AUTO SUNNY TUNGSTEN FLUORESCENT WHITE BLANCE ISO Speed The ISO Speed setting allows you to adjust the CCD lightsensitivity. Use the UP/DOWN navigation buttons to select AUTO from the options. 7 ISO settings are available: ISO 80 · AUTO (default) ISO 100 · ISO 80: For outdoor photography in bright sunlight. ISO 200 · ISO 100: For outdoor photography in bright sunlight. ISO SPEED · ISO 200: For outdoor or indoor photography in bright light. · ISO 400: For indoor photography or low light environments. · ISO 800: For moving object photography or low light environments without using flash. · ISO 1600: For moving object photography or low light environments without using flash.

The Capture Menu Capture Settings 29 AE Metering The AE Metering setting allows you to select the area of the subject or frame by which the camera measures light. Use the MATRIX UP/DOWN navigation buttons to select from the options. 3 AE CENTER WEIGHTED metering settings are available: SPOT · MATRIX (default): Camera metering is set for evaluating 16 zones of objects with AE METERING intelligent weighting in the frame. · SPOT: Camera metering is set for the brightness of a single object in the center of the frame. · AVERAGE: Camera metering is set for the average brightness of objects in the frame.

Color The Color setting allows you to take photos and apply different colors or color tones for an artistic effect. Use the UP/DOWN navigation buttons to select from the options. 4 color settings are available: · VIVID · COLOR (default) · BLACK & WHITE · SEPIA VIVID COLOR BLACK & WHITE SEPIA COLOR Sharpness The Sharpness setting allows you to enhance the finer details of your photos. Use a higher setting for very sharp photos and a lower setting for a soft-toned photo. Use the UP/DOWN navigation buttons to select from the options.

3 sharpness settings are available: · HIGH · NORMAL (default) · LOW HIGH NORMAL LOW SHARPNESS The Capture Menu English 30 Capture Settings Saturation English The Saturation setting allows you to adjust the saturation of the colors in your photos. Use a high saturation setting for rich colors and a lower saturation setting for more natural tones. Use the UP/DOWN navigation buttons to select from the options. 3 saturation settings are available: · HIGH · NORMAL (default) · LOW HIGH NORMAL LOW SATURATION Contrast The Contrast setting allows you to adjust the contrast of your photos. Use the UP/DOWN navigation buttons to select from the options. 3 contrast settings are available: · HIGH · NORMAL (default) · LOW HIGH NORMAL LOW CONTRAST Setup See "The Setup Menu" on page 43 for more details on the setup menu options. The Capture Menu Capture Settings 31 To access the video menu: 1. Press the SCENE button and scroll to Video mode and press the OK button to enable the Video function. Press again to enable the anti-shake function. 2.

Press the MENU button to display the menu options. 3. Refer to the following sections for more detailed information about each setting. Video Video Resolution The Video Resolution setting allows you to adjust the resolution at which your videos are recorded. 2 video size settings are available: · 640X480 · 320X240 640 640X480 320 320X240 White Balance See "White Balance" on page 28 for more details on the setup menu options. VIDEO RESOLUTION Color See "Color" on page 29 for more details on the setup menu options. Saturation See "Saturation" on page 30 for more details on the setup menu options. Contrast See "Contrast" on page 30 for more details on the setup menu options. Setup See "The Setup Menu" on page 43 for more details on the setup menu options. Note: All the options in the Capture Menu may vary according to the different modes.

Video Capture Menu English Video Capture Menu 32 Photo & Video Playback Photo & Video Playback Playback Mode Display Press the DOWN/SCREEN /FACE DETECTION navigation button at Playback mode. /SMILE DETECTION English Photo Playback 1 2 3 4 5 6 7 1/140 Video Playback 8 1 2 3 4 5 00:00:37 6 7 2/30 8 10M 25 24 23 22 21 20 19 18 17 F3.5 1/125 -1.0EV 640 9 SANY0123.JPG 2008/01/01 2009/02/01 2008/02/01 00:00:00 22 20 19 18 -1.0EV 10 11 SANY0001.AVI 2008/02/01 2009/02/01 2008/01/01 00:00:00 10 11 16 15 14 13 12 16 14 13 12 No. 1 2 3 4 5 Name Playback mode Image resolution Protect Sharpness Flash mode Icon Photo mode: Video mode: 640 (640x480), 320 (320x240) Photo mode: Video mode: 00:00:00 (Time of the video clip.) Playback Mode Display Photo & Video Playback 33 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 Quantity SD card / Internal memory Histogram File Name Date and Time Next Battery status Previous Voice memo Mode icons ISO Speed Contrast White balance Saturation AE Metering EV Compensation Shutter speed Aperture value (Max.) Image quality 1/140, 2/30 Photo mode: SANY0001. JPG Video mode: SANY0001.AVI 2009/02/01 00:00:00 Move to next item. Move to previous item. Please see "Capture/Video Mode Display" on page 10 for detailed information. +2.0EV ~ -2.0EV 1/2000 sec. ~ 2 sec. F2.9 (W) / F5.

2 (T) Playback Mode Display English 6 Color mode 34 Photo & Video Playback Viewing Photos/Videos on the LCD Screen To view your photos and video files on the LCD screen: 1. Press the PLAYBACK button. The most recent photo or video clip is displayed. 2. Use the LEFT/RIGHT navigation buttons to scroll through photos and video clips. 3. Press the OK button to begin playback of a video clip. 4. Press the LEFT/RIGHT navigation buttons at any time during playback to skip to the previous/next photo or video.



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Press the OK button then press the LEFT/RIGHT navigation buttons to fast-rewind/fast-forward during video playback. 6. Press the OK button at any time during playback to pause the video. 7. After the video clip finishes playing, the LCD screen displays the first frame of the clip.

English Viewing M-Burst Photos To view your multi-burst photos on the LCD screen: 1. Press the PLAYBACK button. The most recent photo or video clip is displayed. 2. Use the LEFT/RIGHT navigation buttons to scroll through photos.

3. When reviewing a multi-burst image, it will be displayed from the 1st frame to the 16th frame at 2 frames per second like a slideshow. 4. To stop the M-Burst slideshow, press the LEFT/RIGHT navigation buttons and skip to the previous/next image. Listening to Voice Memo A voice memo plays simultaneously when playing a saved image with voice memo. To stop a voice memo while reviewing an image, press the OK button. To skip to previous/next image, press the LEFT/RIGHT navigation buttons. Viewing Photos/Videos on the LCD Screen Photo & Video Playback 35 To view images stored on the camera on your TV, you must connect via the PC/AV port on the side of the camera. To connect your camera to a TV: 1. Turn on the camera and make sure that the camera's video out format is set to the same as that of the TV.

See "Video Out" on page 46 for more information. Video Audio 2. Connect the USB/AV 3-in-1 cable to the PC/AV port on the camera. 3. Connect the other end of the cable to the TV's AV input sockets. 4. The LCD screen turns black and all images and video clips are displayed on the TV screen. Follow the same steps described in "Viewing Photos/Videos on the LCD Screen" on page 34. Zooming In/Out During Playback The camera's zoom feature can also be used during playback. This allows you to view photos in greater detail.

To zoom in/out on saved photos: 1. Press on the right side of the ZOOM button T ZOOM button W to zoom out of the photo. to zoom in and on the left side of the 2. Use the 4-way navigation buttons to pan across the image. 3.

When zoomed in on a photo, press the OK button to crop the image. When zoomed out to the minimum, the LCD screen will display all photos and videos as a series of thumbnails. Viewing Photos/Videos on your TV English Viewing Photos/Videos on your TV 36 Photo & Video Playback Deleting Photos/Videos The Delete function allows you to remove unwanted files stored on internal memory or a memory card. To delete a photo/video: 1. In Playback mode, press the UP/FLASH /DELETE navigation button to display the Delete menu.

DELETE CANCEL VOICE MEMO THIS IMAGE ALL IMAGES English 2. Press the UP/DOWN navigation buttons and the OK button to select from the 4 available options: · CANCEL: Select to cancel the action and exit to the main menu. · VOICE MEMO: Select to delete the voice of the current image. · THIS IMAGE/THIS VIDEO: Select to delete the current image or video. · ALL IMAGES: Select to delete all images. Using the Playback Menu Access the playback menu to view further information, configure printing settings, view a slideshow, or delete photos or movies. To access the playback menu: 1. Press the PLAYBACK button. 10M THIS IMAGE ALL IMAGES EXIT 1/140 DPOF 2. Press the MENU button to display the menu options.

Use the LEFT/RIGHT navigation buttons to select the function from the menu, and press the OK button to enter. 3. Use the UP/DOWN navigation buttons to highlight an option and press the OK button to confirm. DPOF DPOF (Digital Print Order Format) allows you to specify the number of copies of a certain image that you want to print at a later date. Use this function to tag pictures stored in your memory card with print information. You can tag all pictures to be printed or just the current picture. You can also select how many copies print and whether to include the date and time. Deleting Photos/Videos Photo & Video Playback 37 2. Press the UP/DOWN navigation buttons and the OK button to select from the available options: · THIS IMAGE: Select to print the current image. · ALL IMAGES: Select to print all images.

· EXIT: Select to exit to the main menu. 3. Use the UP/DOWN navigation buttons to set the number of copies you wish to print. DPOF Number of copies 88 Slideshow The Slideshow function allows you to view all stored photos in a continuous sequence. To view a slideshow: 1.

Press the MENU button to select SLIDESHOW from the menu, then press the OK button to enter the Slideshow function. 3M START INTERVAL LOOP EXIT SLIDESHOW 1/140 5 sec OFF 2. Press the UP/DOWN navigation buttons and the OK button to select from the available options: · START: Select to start the slideshow. · INTERVAL: Select to set the interval time between each photo during the slideshow. Use the LEFT/RIGHT navigation buttons to set a value in seconds.

The default setting is 5 seconds. · LOOP: Select to enable/disable a continuous loop of the slideshow. Select ON or OFF (default) from the submenu. · EXIT: Select to exit to the main menu. Using the Playback Menu English When all images to be printed are tagged, remove the memory card and take it to a photographic shop for printing, or use it with a DPOF compatible printer. To set DPOF: 1/140 10M 1. Press the MENU button to select DPOF from the menu at THIS IMAGE the playback mode, then press the OK button to enter the ALL IMAGES DPOF function. EXIT 38 Photo & Video Playback Resize English The Resize function allows you to change the image resolution. To resize a photo: 1. Press the MENU button to select RESIZE from the menu, then press the OK button to enter the Resize function.

2. Press the UP/DOWN navigation buttons and the OK button to select the resize ratio you require: 6M, 4M, 2M, 1M, VGA and EXIT. 3. Select EXIT to return to the main menu. 3M 2M 1M VGA EXIT RESIZE 1/140 Note: It is only possible to scale-down image resolutions. If the current image resolution is VGA, this menu item is disabled in the Resize submenu. The ratio of the image (3:2 or 16:9) remains unchanged after resizing. · This function only supports native pictures · Cropped images cannot be resized · If there is not sufficient storage space, images cannot be resized · If the SD/SDHC card is locked, images cannot be resized · VGA image cannot be resized Rotate The Rotate function allows you to change the orientation of a saved photo. To rotate an image: 1. Press the MENU button to select ROTATE from the menu.

Press the OK button to enter. 2. Press the LEFT/RIGHT navigation buttons and the OK button to rotate the select image. · OK: Select to rotate the image. · : Select to exit to the main menu.

OK Using the Playback Menu Photo & Video Playback 39 Protect You can lock a photo or video to protect it from being accidentally erased. To lock a photo or video: 1.



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Press the MENU button to select PROTECT from the menu and press the OK button to enter. 2. Use the UP/DOWN navigation buttons to select lock button to confirm the one you needed.

3. A key locked. or EXIT, then press the OK icon displays at the top of the screen to indicate the photo/video is now 10M 1/140 10M 1/140 4. To cancel the protect mode, select and press the OK button. Note: 1. If the image is protected, the fixed image will be saved as a new file directly without asking. 2. If a failure occurs, the message "Cannot process correctly" appears on the screen. Red-Eye Removal The Red-Eye Compensation function allows you to perform red-eye reduction on a saved photo. To remove red-eye from a photo: 1.

Press the MENU button to select RED-EYE REMOVAL from the menu and press the OK button to enter. 2. Use the UP/DOWN navigation buttons to select YES or NO. 10M YES NO 1/140 RED-EYE REMOVAL Note: 1. If the image is protected, the fixed image will be saved as a new file directly without asking. 2. If a failure occurs, the message "Cannot Processing Correctly" appears on the screen. Using the Playback Menu English 40 Photo & Video Playback Frame Composite English The Frame Composite function supports 9 various decoration frame types to make your captured pictures more funny. Please note the image resolution of the picture that you want apply the frame needs being higher than 3M. To add a frame on your picture: 1.

Press the MENU button to select the IMAGE RESOLUTION from menu. Make sure the current resolution is higher than 3M and then press the OK button to confirm. 2. After taking pictures, press the PLAYBACK button select the image you want to apply a frame. and 3M Press OK to enter 1/140 FRAME COMPOSITE Enter 3.

Press the MENU button again and use the LEFT/RIGHT navigation buttons to select the FRAME COMPOSITE from the menu and then press the OK button to confirm. 4. Use the 4-way navigation (LEFT/RIGHT/UP/DOWN) button to select the frame type you like and press the OK button. 5. Press the OK button to save the picture as NEW FILE or OVERWRITE the original one, and then press the OK button again.

NEW FILE OVERWRITE EXIT Enter 6. You may press the MENU button to return to the previous menu during the operation. Note: 1. The function is unavailable when the storage space is not enough. 2. All images' size will be changed to 3M after applying the Frame Composite function; even you take the pictures' size higher than 3M. 3. The function does not support cropped or rotated images. Using the Playback Menu Photo & Video Playback 41 Move The Move function allows you to move images stored in internal memory to a memory card. To move an image: 1.

Press the MENU button to select SETUP from the menu. Press the OK button to confirm. 10M THIS IMAGE ALL IMAGES EXIT 1/1 MOVE 2. Select the IMAGE STORAGE from the menu. Press the OK button to confirm. Select the INTERNAL MEMORY from the menu. Press the OK button to confirm. 3. Press the MENU button to select MOVE from the menu. Press the OK button to confirm.

4. Press the UP/DOWN navigation buttons and the OK button to select from the 3 available options: · THIS IMAGE: Select to move the current image to a memory card. · ALL IMAGES: Select to move all images to a memory card. · EXIT: Select to exit to the main menu. Note: The Move function is only available when you choose internal memory as the storage media and an SD/SDHC card has been inserted into the camera.

Back to AUTO memory mode: 1. Press the MENU button. Select SETUP from the menu and press the OK button to confirm. 2. Select the IMAGE STORAGE from the menu.

Press the OK button to confirm. 3. Select AUTO from the menu. Press the OK button to confirm. 4. Press the PLAYBACK button. Using the Playback Menu English 42 Photo & Video Playback Transferring Photos/Videos to your PC To transfer photos and videos to your PC: Connect the camera's PC/AV port to a free USB port on your PC using the USB cable. The camera's internal memory and/or SD/SDHC card appear as removable drives in the file manager. Copy the files from the drives to the directory on your PC. Use ArcSoft PhotoImpression and ArcSoft VideoImpression (provided on the software CD) to view or edit the photos and videos respectively.

English Transferring Photos/Videos to your PC Camera Settings 43 The Setup Menu The setup menu, available in capture and playback modes, allows you to configure the camera's general settings according to your preferences. To access the setup menu: 1. Press the MENU button when in Playback or any of the OK Enter capture modes. 2. Select SETUP from the menu. Press the OK button to enter, then the submenu appears. 3. Use the LEFT/RIGHT navigation buttons to scroll through the options and press the OK button to enter further submenus and to confirm your selection. Refer to the following sections for more detailed information about each setting. Press OK to enter SETUP LCD Brightness The LCD Brightness setting allows you to brighten or darken the LCD backlight.

Press the OK button to enter. Use the LEFT/ RIGHT navigation buttons to increase or decrease the brightness. LCD BRIGHTNESS File Number The FILE NO. setting allows you to reset all file numbers assigned to each of the files on your camera. Press the OK button to confirm.

Select RESET to reset or CONTINUE to set the file numbers in continuous order. RESET CONTINUE FILE NO. The Setup Menu English Camera Settings 44 Camera Settings Digital Zoom English The Digital Zoom setting allows you to turn the digital zoom function on or off. Press the OK button to confirm. Select ON to enable the function or OFF (default) to disable it.

ON OFF DIGITAL ZOOM Quick View The Quick View setting allows you to view the photo that you have just taken. Once you have taken your photo, it displays on the LCD screen. If you are not satisfied with the result, you can press the UP/FLASH /DELETE button to delete the photo immediately. Press the OK button to confirm. Select ON (default) to enable the function or OFF to disable it. Note: The Quick View function is not available in Burst and M-Burst modes. ON OFF QUICK VIEW Continuous AF The Continuous AF setting allows you to turn the continuous auto focus function ON or OFF. Press the OK button to enter. Select ON to enable the function or OFF (default) to disable it. ON OFF CONTINUOUS AF The Setup Menu Camera Settings 45 Camera Sound The Camera Sound setting allows you to adjust the camera sound level.

You can also set the start-up and shutter sound when you turn on the camera and press the SHUTTER button. Available options are as follows: · VOLUME: OFF, LOW, NORMAL (default), HIGH · START-UP: Sound 1 (default), Sound 2, Sound 3 · SHUTTER: Sound 1 (default), Sound 2, Sound 3 · EXIT: Select to discard the changes and return to the main menu.



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VOLUME START-UP SHUTTER EXIT CAMERA SOUND NORMAL 1 1 Power Saving The Power Saving setting allows you to adjust the length of time that the LCD screen will turn dim to save battery power. 4 options are available: · OFF · 15 SEC (default) · 30 SEC · 1 MIN OFF 15 SEC 30 SEC 1 MIN POWER SAVING Auto Power Off The Auto Power Off setting allows you to adjust the length of time after which the camera will power down when inactive. Use the UP/DOWN navigation buttons to select from the menu options. 2 options are available: · 5 MIN (default) · 2 MIN 5 MIN 2 MIN AUTO POWER OFF The Setup Menu English 46 Camera Settings Video Out English The Video Out setting allows you to adjust the video output, depending on the type of your TV. Use the UP/DOWN navigation buttons to select from the menu options. 2 options are available: · NTSC · PAL NTSC PAL VIDEO OUT USB Mode The USB Mode setting allows you to select the transfer method between your camera and your PC. 2 options are PTP available: MSDC · PTP (PictBridge Print): When the camera is connected to a printer by a USB cable which supports Pictbridge, it can directly print images stored on the media. For details on USB MODE PTP function, please see "PictBridge Print (PTP)" on page 49.

· MSDC (default): The camera is set up to act as a mass storage device, allowing only for transfer of files between your camera and PC. Date Stamp The Date Stamp setting allows you to adjust the format in which the date will appear on each photo or video. You can also deactivate this function if you wish. Setting a date stamp allows for easy sorting and the date will appear on the photo when printed. Press the OK button to confirm.

Use the UP/DOWN navigation buttons to select from the menu options. 4 options are available: · OFF (default) · YYYY MM DD: year-month-date format · MM DD YYYY: month-date-year format · DD MM YYYY: date-month-year format OFF YYYY MM DD MM DD YYYY DD MM YYYY DATE STAMP The Setup Menu Camera Settings 47 Date and Time The Date and Time setting allows you to set or adjust the Press OK when done date and time on your camera. To set or adjust the date and (Year) time: 2009 / 02 / 01 12 : 00 Press the OK button to confirm. · Press the LEFT/RIGHT navigation buttons to select the field.

DATE & TIME · Press the UP/DOWN navigation buttons to adjust the Year value.

· In the same way, select the Month, Day, Hour and Minute fields and adjust them accordingly. Language The Language setting allows you to choose which language the OSD menu uses. Press the UP/DOWN navigation buttons to select your language. Press the OK button to confirm. ENGLISH DEUTSCH FRANÇAIS ITALIANO LANGUAGE Image Storage The Image Storage setting allows you to specify where photos and video clips will be stored.

· @@@@ · INTERNAL MEMORY: All photos and videos are stored in the internal memory. The Setup Menu English 48 Camera Settings Format English The Format setting allows you to erase all data in the internal memory or on the SD/SDHC card. Press the OK button to confirm. Use the UP/DOWN navigation buttons to select from the menu options. 3 options are available: · MEMORY CARD: All data on the SD/SDHC will be formatted.

· INTERNAL MEMORY: All data in the internal memory will be formatted. · EXIT: Cancel format action. MEMORY CARD INTERNAL MEMORY EXIT FORMAT Reset The Reset setting allows you to reset the camera to the original factory default settings. @@ Once selected, the Reset screen displays a confirmation message. Press the OK button to enter selection function. @@@@ If the camera is not connected to a PTP compliant printer, an error message displays on the LCD screen. To enable PTP function, see "USB Mode" on page 46 for detailed information. If the USB mode is not set at PTP, an error message displays Connecting fail! on the LCD screen. When a PTP compliant printer is connected to the camera, the Printer Connecting screen displays on the LCD screen. The Print menu pops up automatically.

Printer Connecting... Use the UP/DOWN navigation buttons to select an option and press the OK button to confirm. 1/140 AUTO INTERNAL MEMORY IMAGE STORAGE PictBridge Print (PTP) English 50 Camera Settings Image Storage English See "Image Storage" on page 47 for detailed information.

This Image Print the selected image with the current setting. 1. Use the UP/DOWN navigation buttons to select THIS IMAGE from the options and press the OK button to confirm. Use the LEFT/RIGHT navigation buttons to select previous/next file. 1/140 THIS IMAGE ALL IMAGES EXIT DPOF IMAGE 2.

Press the UP/DOWN navigation buttons to set the number of copies. 1/140 Number of copies 2 THIS IMAGE 3. Press the UP/DOWN navigation buttons again to select the paper size. . . . DEFAULT SIZE 4" x 6" LETTER A4 PAPER SIZE DEFAULT SIZE 4" X 6" LETTER A4 4. Press the UP/DOWN navigation buttons to CONTINUE or CANCEL the action. Copies : 3 Prints : 3 Size : Default CONTINUE CANCEL PictBridge Print (PTP) Camera Settings 51 Index Print Use this function to print all images in index format. DEFAULT SIZE LETTER A4 INDEX PRINT 1/140 1. Press the UP/DOWN navigation buttons to select the Paper size. · DEFAULT SIZE · LETTER · A4 1/140 DEFAULT SIZE LETTER A4 INDEX PRINT 2. Press the UP/DOWN navigation buttons to set the number of copies.

After the number of copies is set, press the UP/DOWN navigation buttons again to continue or cancel the action. Copies : 1 Prints : -Size : Default CONTINUE CANCEL PictBridge Print (PTP) English 52 Camera Settings DPOF Image English See "DPOF" on page 36 for detailed information. All Images Print all images saved in memory. 1. Use the UP/DOWN navigation buttons to select ALL IMAGES from the options and press the OK button to confirm. 10M THIS IMAGE ALL IMAGES EXIT DPOF 1/140 2. Press the UP/DOWN navigation buttons to set the number of copies. Number of copies 88 3. Press the UP/DOWN navigation buttons to select the Paper size. . . . DEFAULT SIZE 4" x 6" LETTER A4 PAPER SIZE DEFAULT SIZE 4" X 6" LETTER A4 4.

Press the UP/DOWN navigation buttons to select CONTINUE or CANCEL this action. COPIES : 3 PRINTS : 3 SIZE : DEFAULT SIZE CONTINUE CANCEL PictBridge Print (PTP) Specifications 53 Effective Resolution Image Type General LCD Dimensions Exterior Casing Aperture (Max.) Optical Zoom Digital Zoom Focal Length Optics Photo Graphic Range Approx. 10.0M Pixels 1/2.

33" CCD 2.7" TFT, 230,000 Pixels 94(W) x 58(H) x 21(D)mm Plastic housing Wide: F2.9 Tele: F5.2 Up to 3x Up to 5x Wide(W): 32mm, Tele(T): 96mm Normal: 60 cm ~ infinity Macro: 10 ~ 70 cm (Wide), 35 ~ 70 cm (Tele) Landscape: infinity Support seamless AF in Auto/P-mode/ Foliage modes 2 ~ 1/2000 Sec.



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None 99% by LCD Shutter Speed Viewfinder Field of View English Specifications 54 Specifications Auto Power Off / Time Out Yes Auto(ISO 80~320) Manual(ISO80/100/200/400/800/1600) *Sensitivity is measured in compliance with the ISO standard (ISO 12232:2006) Support SD/SDHC card from 32MB to 16GB Auto, Off, Fill, Red-eye Auto, P-Mode, Sport, Landscape, Night Landscape, Portrait, Self-Portrait, Night Portrait, Museum, Snow, Sunset, Fireworks, Beach, Party, Foliage, Kids & Pets, Copy, Backlight, Video 1/4" Standard Yes Still Image: JPEG (Exif2.

21) Movie: MJPEG (with .AVI format) Still Image: 3664x2748, 3664x2442, 3264x2448, 2576x1932, 2048x1536, 1920x1080, 1600x1200, 640x480 Movie Mode: 640x480@30fps, 320x240@30fps Best, Better, Good English Camera Features Image Resolution ISO Equivalent External Memory Flash Modes Shooting Mode Tripod Mount Macro Image File Formats Image Quality Mode Quality Levels Specifications 55 DPOF Erase Protection Exposure Compensation Sharpness Color AE Metering Focus Version 1.1 Yes Selectable +/-2.0EV with 0.3EV/0.4EV steps High, Normal, Low Vivid, Color, Black&White, Sepia Matrix, Spot, Average Multi-Zone Center Selected area Wide: Operating Range 0.6 ~ 3m @ ISO Auto Tele: Operating Range 0.6 ~ 1.8m @ ISO200 Auto None Yes No No Single Mode, Burst Mode, Multi-Burst (VGA@16 shots) Yes Yes No 2 or 10 seconds Up to 6X (9 steps) Auto, Sunny, Tungsten, Fluorescent, Cloudy Flash Range Capture Features Lens Thread Anti-Shake Aperture Priority Shutter Priority Drive Mode Quick Delete Quick View Quick Review Self Timer Playback Magnify White Balance English 56 Specifications Video output PAL, NTSC Yes Yes, Mono AVI Close to 80 min. Max.

file size is 4G bytes. Yes, Mono NP-40 Lithium-ion CIPA 220 images USB 2.0 high speed Windows 2000/XP/Vista 0°C ~ 40°C English, German, French, Italian, Spanish, Portuguese, Simplified Chinese, Traditional Chinese, Russian, Turkish, Thai, Korean, Dutch English Stream to SD/SDHC Video Speaker Movie File Format Movie Length Microphone Power Capability Battery Battery Life Camera Interface Host Platform Operating Temperature Standards Language Troubleshooting 57 Problem Camera does not turn on Camera turns off automatically Empty battery icon is displayed on the LCD then camera turns off LCD screen displays 'Card Requires Formatting' LCD screen displays 'Card is Full' LCD screen displays 'Card is Locked' Insufficient memory space to complete request No image displays on the TV screen Insufficient space on the card Action · The battery may be exhausted. Charge or replace the battery. · The battery is installed incorrectly. Re-insert the battery observing the correct polarity. Press the POWER button again to turn on the camera.

Battery is exhausted. Charge or replace the battery. Memory card format not recognized.

Re-format the memory card. Memory card is full. Replace the memory card with a new one or delete unnecessary images from the existing card. The card is protected by a protect switch mechanism. Move the switch to the unlock position.

Insufficient space in memory to rotate an image or divide a video. Delete unnecessary images or videos. Incorrect TV-out type was selected. Set correct TV-out type to match your TV system. Delete unnecessary images.

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