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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX OPTIO M90. You'll find the answers to all your questions on the PENTAX OPTIO M90 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX OPTIO M90
User guide PENTAX OPTIO M90
Operating instructions PENTAX OPTIO M90
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Instruction manual PENTAX OPTIO M90

PENTAX

EN

Digital Camera

Operating Manual

Optio M90 / M900



To ensure the best performance from your camera, please read the Operating Manual before using the camera.



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Manual abstract:

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..... 51 Preface i Preface About this Manual Regarding Copyrights Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

Trademark Recnue use of the Battery charger.

Continued use could cause equipment failure, a fire, or electric shock. Caution Never try to disassemble or short the battery. Also, do not dispose of the battery in a fire, as they may explode. Do not charge any battery other than rechargeable lithium-ion battery D-LI108. The battery could explode or catch fire.

Do not place your finger on the flash when it is discharging as there is a risk of burns. Do not discharge the flash while it is touching your clothing as there is a risk of discoloring of the clothing. If any leakage from the battery should come in contact with your eyes, do not rub them. Flush iquid crystal and is not a fault. Periodic checks are recommended every 1 to 2 years in order to maintain high performance.

If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided. Be careful not to allow dirt, mud, sand, dust, water, toxic gases or salt to enter the camera as this may damage the camera. Wipe away any raindrops or water droplets and allow the camera to dry. Please note that formatting a memory card or internal flash memory will delete all data; however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera memory at your own risk. Please do not press forcefully on the display. This could cause breakage or malfunction. Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the display. When using a tripod with the camera, be careful not to over tighten the screw in the tripod socket on the camera.

About this Manual English 1 Introduction Introduction 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 XP/Vista/7 · Memory: 512 MB or above · HDD space: 500 MB or above · USB port English Package Contents Check the contents of your camera package. It should contain: · Camera Optio M90/M900 · USB/AV 3-in-1 cable · Wrist strap · Rechargeable Li-ion battery · Charger · Quick start guide · Application Software and Operating Manual (CD-ROM) Main Features 12.1 mega pixels resolution 25X zoom (Up to 5X optical zoom and 5X digital zoom) 1/2.3 inch CCD image sensor 2.7 inch TFT LCD monitor 20 MB internal flash memory, support SD/SDHC memory card up to 32 GB Sleek and slim design Easy-to-use button interface System Requirements Introduction 2 Camera Views 1 2 3 4 5 6 8 9 10 11 12 13 7 14 15 16 17 18 19 Front View 1. 2. 3. 4.

5. 6. 7. Microphone Shutter button Flash Self-timer LED Power button Zoom Lens Speaker 8. 9.

LCD screen OK button Rear View 10. 4-way navigation buttons 11. Playback button 12. Zoom button 13. SCENE button 14.

Tripod mount 15. Battery/SD card compartment 16. Delete/Face Beautification button 17. MENU button 18. Wrist strap loop 19. PC/AV port Camera Views English 3 Introduction LED Indicators LED Self-timer LED LED Status Off Red (blinking) (10 sec) Red (blinking) (2 sec) Camera Status Self-timer off. Timer count down, flash after 10 seconds. Timer count down, flash after 2 seconds. English 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. You can configure a wide range of settings to ensure maximum results from your photos and videos.

Icon Button Function 1. 2. Confirm a selection when using the OSD menus. In Capture mode: · Press to enable/disable the Anti-Shake in Auto mode. · Enable AF area selection when SELECTED AREA is selected in FOCUS ZONE.



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In Playback mode: · Press to start and pause the video playback. · Press to play and pause the audio playback. · Press to stop the voice memo playback. OK
OK/Anti-shake 3. LED Indicators Introduction 4 1.

2. Up/Flash 3. Move up in the OSD menus. In Capture mode: · Scroll through the flash mode options (Auto, Off, Fill and Red-eye Reduction). · Press to pan up in AF area selection.

In Playback mode: · Press to pan up in zoom in mode. · Press to move up in the thumbnail display. Move right in the OSD menus. In Capture mode: · Press to scroll through the Self-timer/Burst/Multi-Burst mode. · Press to pan right in AF area selection.

In Video mode: · Press to scroll through the Self-timer options. In Playback mode: · Press to pan right in zoom in mode. · Press to navigate to next image in single image display. · Press to move right in the thumbnail display. · Press to fast forward video playback during Pause mode. Move down in the OSD menus.

In Capture mode: · Press to enable the following functions: full icon, full icon with histogram and simple display (hide all icons except the mode icon). Press again to turn all icons back on the LCD screen. In Video mode: · Press to turn off extra icons on the LCD screen, press again to turn all icons back on the LCD screen. In Playback mode: · Press to pan down in zoom in mode.

· Press to move down in the thumbnail display. · Press to enable the following functions: normal, information, simple display. Press again to back normal display. 1. 2. Right/ Self-timer/ Burst mode 3. 4. 1. 2. 3. Down/Screen 4. Camera Buttons English 5 Introduction 1. 2. 3. Left/Macro Move left in the OSD menus.

Go up to the previous level in the OSD menus. In Capture mode: · Press to enable Macro mode. Macro icon displays on the LCD screen. In Playback mode: · Press to pan left in zoom in mode. · Press to navigate to previous image in single image display.

· Press to move left in the thumbnail display. · Press to fast rewind video playback during Pause mode. 4. English Camera Buttons Introduction 6 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: Auto Auto Scene P-Mode (Program Mode) Auto Panorama Smile Catch Sport Landscape Night Landscape Portrait Self Portrait Night Portrait Museum Snow Sunset Fireworks Beach Party Foliage Kids & Pets Copy Backlight Frame Composite Audio Video Camera Buttons English Mode Type Icon Mode Type Icon 7 Introduction Function Buttons Icon MENU Button Menu Playback Function Press to display the Menu options. Press to review photo/video/audio clips saved in the internal memory or on the memory card. In Capture mode: · Press to enable/disable the Face Beautification function. · Press to delete during mark appears on LCD (QUICK VIEW has to be set "ON" at SETUP mode). In Playback mode: · Press to delete image/s.

Note: Face Beautification function is not available in auto panorama, sport, landscape, night landscape, fireworks, foliage, copy and video mode. In Capture mode: · Press to zoom in on the 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. English / T/ W/ Delete/ Face Beautification button Zoom in Zoom out LCD screen The 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 button to switch among a Full display with histogram and without histogram or a Simple display (only mode icon and focus area are shown while other icons are hidden).

Camera Buttons Introduction 8 Capture/Video Mode Display 1. Scene indicator Auto Auto Scene P-Mode Auto Panorama Smile Catch Sport Landscape Night Landscape Portrait Self Portrait Night Portrait Museum Snow Sunset Fireworks Beach Party Foliage Kids & Pets Copy Backlight Frame Composite Audio Video 2. Image Resolution Capture Mode 12M 10.7M 3:2 9M 16:9 8M 5M 3M 2M VGA Video Mode 640X480 320X240 3. Flash Auto Flash Flash Off Fill Flash Red-eye Reduction 4.

Self-Timer/Burst Mode Self Timer 10 Seconds 2 Seconds Burst Mode M-burst Mode 5. AEB 6. Macro indicator Macro Mode 21 23 12 1 2 19 18 17 24 23 22 21 20 1/125 F3.5 +1.0EV 1600 ISO Capture Mode 1 2 3 4 5 6 7 9999 8 9 10 11 12 13 16 15 14 Video Mode 4 7 00:00:00 8 9 Camera Buttons English 9 Introduction 7.

Image Counter Capture Mode Quantity Video Mode Time 8. Memory Interface SD Card Internal Memory 9. Battery Indicator Battery Full Battery Medium Battery Low Battery Insufficient 10. Anti-Shake 11. Camera Steady Warning Blinking Multi-Zone Center 9999 Selected Area 19. Image Quality 00:00:00 Best Better Good 20. Sharpness High Normal Low 21. Contrast High Normal Low 22. ISO Speed Tungsten Fluorescent Cloudy 24. AE Metering Matrix Center Weighted Spot English 12.

Zoom Bar Auto ISO 80 ISO 100 13. AF Frame 14. EV Compensation 15. Aperture Value 16. Shutter Speed 17. Date Stamp 18. Focus Zone -2.0 EV~ +2.0 EV F3.5/F5.

9 2~1/1000 ISO 200 ISO 400 ISO 800 ISO 1600 23. White Balance Auto Sunny Camera Buttons Camera Setup 10 Camera Setup Attaching the Wrist Strap English Follow these instructions to attach the wrist strap to your camera to facilitate easy carrying: 1. 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 the Li-ion battery into the battery compartment. 1. Open the battery compartment at the bottom of the camera. 2. Insert the battery into the compartment observing the correct polarity.

3. Close the battery compartment. Note: The Li-ion battery should be fully charged more than 4 hours before using for the first time. Attaching the Wrist Strap 11 Camera Setup Inserting an SD/SDHC Memory Card The camera features Approx. 20 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 bottom 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.



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Pull out the card carefully. Note: · Format memory cards via CAMERA before first use, and be sure to reformat all memory cards after using them in a computer or other device. For more information on formatting memory cards, see page 46. · If remove or insert SD card when power on, the camera will tune off automatically. Inserting an SD/SDHC Memory Card Camera Setup 12 Charging the Battery Insert the battery into the Charger observing the correct polarity and plug in the Charger as shown. Note: This charger is designed for the specified batteries. Do not use the charger to charge any battery other than the specified ones.

It may cause the battery leaking, heating, explosion or on fire. Turning On Press and hold the Power button to turn on the camera. To turn off the camera, press the Power button again. Charging the Battery English 13 Camera Setup First Time Use Press the Power button as described on page 12, a welcome screen displays momentarily on the LCD screen. If the camera is turned on for the first time, the LANGUAGE menu LANGUAGE pops up automatically after powering on the camera.

Select the desired language by Up/Down navigation buttons, then press the ENGLISH OK button to confirm. DEUTSCH FRANÇAIS ITALIANO ESPAÑOL English After the desired language is selected, the DATE & TIME menu pops up. Select each field and adjust the value using the navigation buttons. Press the OK button to confirm. DATE & TIME (Year) 2010 / 05 / 01 12 : 00 Note: If the Date and Time is reset (when the batteries die or are removed and the camera is not used for a long period), the DATE & TIME setup screen displays automatically.

First Time Use Getting Started 14 Getting Started Now that you are familiar with the layout of your camera, you are ready to start taking photos and movies. Taking a photo with the camera is very simple. Turn the camera on and press the SCENE button to access the Auto mode. 1. @@The camera automatically adjusts the focus and exposure. The AF Frame turns green when ready. 2. Press fully and hold the Shutter button to capture the image. When a camera steady warning icon exposure time is required. @@@@An Anti-Shake icon is activated.

@@Press the Left/Macro the LCD screen. navigation button. @@@@Auto flash: The flash fires automatically when needed. Flash off: The flash is turned off. Fill flash: The flash always fires. @@2. 1. @@@@Once you have selected an option, frame and take your shot. @@After taking a photo, the Self-timer automatically switches off. @@@@This function is only available in Auto and P-Mode modes.

To set the AEB mode: 1. Press the MENU button to display menu options. 2. @@3. @@@@When taking AEB shots, hold the camera steadily.

For the best result, use the tripod. 2. @@@@Each setting is configured automatically by the camera. @@1.

@@@@However, the image resolution and quality, and the exposure compensation are still controllable in this function.

1. 2. Press the SCENE button and select Auto Scene mode. The detected scene icon will be displayed on the LCD. 9999 English Using the Smile Catch Mode The Smile Catch mode allows you to take smiling photo anytime without pressing the Shutter button. When a detected face smiles, the shutter automatically fires. 1. 2. Press the SCENE button and select Smile Catch mode. The Smile Catch icon displays on the LCD screen.

The camera will automatically take a picture when a detected face smiles. 9999 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: 9999 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. Turn the camera lens toward your face. The camera will automatically take a picture. This function is available in any flash mode.

2. 3. Taking Photos Getting Started 20 Note: 1. The Shutter button, Macro mode, Self-timer and Burst functions could not work when enable the Self Portrait mode. 2.

The white focus frame only works within the effective yellow frame. Press SCENE button to select Frame Composite mode and select the frames by pressing Left/Right/Up/Down navigation buttons. Then, press OK button to confirm the selection and move to Frame Composite live view screen. 9999 Taking Auto Panoramic Pictures Auto panorama mode allows you to shoot ultra wide panoramic shots automatically. You can create wide-view photos by stitching three images into a single panoramic scene.

To take an auto panoramic picture: 1. 2. Press the SCENE button and select Auto Panoramic The Auto Panorama icon displays on the LCD screen. mode. 9999 You can take panoramic shots in either left-to-right () or rightto-left () sequence. Press the Up/Down navigation buttons to select the direction in which the sequence will be taken. Then press the OK button. +1.0EV Using Frame Composite Mode English Using Frame Composite Mode 21 Getting Started 3. Frame the first view on the LCD screen and press the Shutter button.

The frame record icon is displayed to indicate the location of frame is going to take for the panorama image. 9999 English 1 +1.0EV 4. After the quick preview, the LCD screen shows the live view and dynamic arrow(s) to indicate the right position for the second picture. When the arrow is getting shorter, meaning the distance is getting closer, camera's alert tone will be more rapid. When the dynamic arrow is disappeared, the camera catches the right position and will take picture automatically. You can press the delete /face beautification button to retake the picture. If you are taking only two pictures, press the OK button to stitch them together. After you take three pictures, the camera will automatically stitch them together into one panorama shot. Press the Playback mode to view the result.

2 5. 6. 7. Note: Strongly recommended using tripod, or using the camera as the center of rotation while taking pictures. Taking Auto Panoramic Pictures Getting Started 22 Recording Videos 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 2. 3. 4. mode. Press the OK button to select. 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. Press the Shutter button again to stop recording. @@@@To record an audio file: 1. 2. 3. 4. @@Press the Shutter button to start recording.

A counting up timer will be displayed during audio recording. @@@@1. @@2. @@3. 4. In 1. 2. 3. 4. @@Press the OK button once for playback again.

@@While recording, the selected image and the elapsed time are shown on the LCD screen.



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The playback of the voice memo automatically starts. Press the OK button once for playback again. English Recording Voice Memos Capture Settings 24 Capture Settings This section describes the various settings you can modify to get better results when taking photos and video clips. To access the Capture menu: 1.

Press the SCENE button. Use the 4-way navigation buttons to select the capture mode you need. 2. Press the MENU button to display menu options and use the Up/Down navigation button to select the function you need and press OK to enter. 3.

Press the Up/Down navigation buttons to highlight an option and press the OK button to confirm. Refer to the following sections for more detailed information about each setting. IMAGE RESOLUTION IMAGE QUALITY FOCUS ZONE EV COMPENSATION AEB +0.3EV ±0.3EV 12M Note: The displayed options in this section may vary according to the mode selected. The Capture Menu English The Capture Menu 25 Capture Settings Image Resolution The Image Resolution setting refers to the size of the image in pixels. Eight settings for image resolution are available: · 12M (4000X3000) (default) · 5M (2576X1932) · 10.7M 3:2 (4000X2664) · 3M (2048X1536) · 9M 16:9 (4000X2248) · 2M (1600X1200) · 8M (3264X2448) · VGA (640X480) IMAGE RESOLUTION 12M 10.7M 3:2 9M 16:9 8M 5M English Image Quality The Image Quality setting refers to the compression ratio of the JPG. The higher image quality, more memory space is required.

Three settings for image quality are available: · BEST (default) · BETTER · GOOD IMAGE QUALITY BEST BETTER GOOD Focus Zone The Focus Zone setting allows you to select the number of zones the camera will focus on when taking a photo. Three settings for focus zone are available: · MULTI-ZONE (default) · CENTER · SELECTED AREA: Sets the focusing area to one of points in the AF area. Note: In Auto Mode, there is no "Selected Area" item. FOCUS ZONE MULTI-ZONE CENTER SELECTED AREA The Capture Menu Capture Settings 26 EV Compensation The EV Compensation menu allows you to adjust the exposure or amount of light that enters the lens while capturing photos or videos. Use this feature to take pictures that are intentionally overexposed or underexposed. To brighten, select a positive (+) value. To darken, select a negative (-) value. This setting can be modified from -2.0 EV to +2.0 EV in a 0.

3 or 0.4 EV increment/decrement. EV COMPENSATION 0.0EV -0.3EV -1.

0EV -1.3EV AEB See "Using the AEB (Auto Exposure Bracketing) Function" on page 16 for more detailed information. White Balance The White Balance setting allows you to adjust the camera setting according to the ambient white light when shooting. White balance represents the color temperature of the light. If the light has a yellowish or reddish tinge, it is said to be warm; if it has a bluish tinge, it is said to be cool.

You can select the setting and preview it on screen before confirming your choice. Five white balance settings are available: · AUTO (default) · SUNNY · TUNGSTEN · FLUORESCENT · CLOUDY WHITE BALANCE AUTO SUNNY TUNGSTEN FLUORESCENT CLOUDY The Capture Menu English -0.7EV 27 Capture Settings ISO Speed ISO SPEED The ISO Speed setting allows you to adjust the CCD light-sensitivity. AUTO Seven 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 400 · 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. English AE Metering AE Metering allows you to select the area of the subject or frame that the camera selects to measure light.

Three AE metering settings are available: · MATRIX (default): Camera metering is set for evaluating 16 zones of objects with intelligent weighting in the frame. · CENTER WEIGHTED: The metering puts more emphasis on the center of the image while still looking at the entire scene. · SPOT: Camera metering is set for the brightness of a single object in the center of the frame. AE METERING MATRIX CENTER WEIGHTED SPOT Color The Color setting allows you to take photos and apply different colors or color tones for an artistic effect. Four color settings are available: · VIVID · COLOR (default) · B&W · SEPIA COLOR VIVID COLOR B&W SEPIA The Capture Menu Capture Settings 28 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. Three sharpness settings are available: · HIGH · NORMAL (default) · LOW SHARPNESS HIGH NORMAL LOW Contrast The Contrast setting allows you to adjust the contrast of your photos. Three contrast settings are available: · HIGH · NORMAL (default) · LOW CONTRAST HIGH NORMAL LOW The Capture Menu English 29 Capture Settings Video Capture Menu To access the video menu: 1. 2. 3.

Press the SCENE button and scroll to Video mode and press the OK button to enable the Video function. Press the MENU button to display the menu options. Refer to the following sections for more detailed information about each setting. VIDEO RESOLUTION Video English Video Resolution The Video Resolution setting allows you to adjust the resolution at which your videos are recorded. Two video size settings are available: · 640X480 (default) · 320X240 640X480 320X240 White Balance See "White Balance" on page 26 for more details on the setup menu options.

Color See "Color" on page 27 for more details on the setup menu options. Video Capture Menu Photo, Video & Audio Playback 30 Photo, Video & Audio Playback Playback Mode Display 1. Playback mode 2. Image resolution Photo mode: Video mode: 3. Protect 4.

Voice memo 5. Flash mode Photo mode: Video mode: 00:00:00 (Length of the video clip.) F3.5/F5.9 x/y IMG/P0124.AVI 2010/05/01 12:00:00 Photo Playback 1 2 3 4 5 6 7 9 9999/9999 8 9 (640X480), (320X240) 22 21 20 19 18 17 +1.0EV 1/125 F3.5 IMG/P0123.JPG 2010/05/01 12:00:00 10 11 12 1600 ISO 16 15 14 13 Video Playback 1 2 3 7 9999/9999 8 9 6. Aperture value 7.

File x of y number of files 8. SD card/ Internal memory 9. Battery status 10. Histogram 11 12 15 14 13 15. Color mode 11. File Name 12. Date and Time 13. White balance 14. Mode icons Please see "Capture/Video Mode Display" on page 8 for detailed information.



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Photo mode: IMGP0123.

JPG Video mode: IMGP0124.AVI 2010/05/01 12:00:00 16. Image quality 17. ISO Speed 18. Contrast 19.

Sharpness 20. AE Metering 21. Shutter speed 2 ~ 1/1000 Sec. 22. EV Compensation +2.

0 EV ~ -2.0 EV Playback Mode Display English Press the Down/Screen navigation button at Playback mode. 31 Photo, Video & Audio Playback Viewing Photos/Videos on the LCD Screen To view your photos and video files on the LCD screen: 1. 2. 3. 4. 5. 6. 7. Press the Playback button .

The most recent photo or video clip is displayed. Use the Left/Right navigation buttons to scroll through photos and video clips. Press the OK button to begin playback of a video clip. Press the Left/Right navigation buttons at any time during playback to skip to the previous/next photo or video. Press the OK button at any time during playback to pause the video. Press the Left/Right navigation buttons to fast-rewind/fast-forward during video playback. 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.

2. 3.

4. Press the Playback button . The most recent photo or video clip is displayed. Use the Left/Right navigation buttons to scroll through photos. 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.

Press the Left/Right navigation buttons and skip to the previous/next image. Listening to Audio Files To listen to audio files: 1. 2. 3. 4.

5. 6. Press the Playback button . The most recent photo or video clip is displayed. Use the Left/Right navigation buttons to scroll through the files. Press the OK button to begin playback of an audio file. Press the Left/Right navigation buttons at any time during playback to skip to the previous/next audio file. Press the OK button at any time during playback to pause. Press the Left/Right navigation buttons to fast-rewind/fast-forward during audio playback. Viewing Photos/Videos on the LCD Screen Photo, Video & Audio Playback 32 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. 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 44 for more information. 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 31. Video Audio 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. 2. 3. Press on the right side of the Zoom button T to zoom in and on the left side of the Zoom button W to zoom out of the photo. Use the 4-way navigation buttons to pan across the image.

To crop an image, press the OK button, when zoomed in on a photo. The cropped image is saved with a new name. 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 33 Photo, Video & Audio Playback Deleting Images/Videos/Audios The Delete function allows you to remove unwanted files stored on the internal memory or on a memory card. To delete a photo/video: 1. 2. DELETE ALL IMAGE In Playback mode, press the delete /face beautification button to display the Delete menu. CANCEL Press the Up/Down navigation buttons and the OK button to select from the four available options: · ALL: Select to delete all files. · IMAGE/VIDEO/AUDIO: Select to delete the current image/video/audio. · VOICE MEMO (only available for image with voice memo attached): Select to delete the voice memo.

· CANCEL: Select to cancel the action and exit to the main menu. English 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. 2. Press the Playback button . Press the MENU button to display the menu options. Use the Up/Down navigation button to select the function from menu and press OK to enter. Use the Up/Down navigation buttons to highlight an option and press the OK button to confirm. DPOF SLIDESHOW RESIZE ROTATE PROTECT ON 3. Deleting Images/Videos/Audios Photo, Video & Audio Playback 34 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 to print. To set DPOF: 1. 2.

Press the MENU button to select DPOF from the menu in the playback mode. 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. Use the Up/Down navigation buttons to set the number of copies you wish to print.

Number of copies 3 DPOF THIS IMAGE ALL IMAGES EXIT > 3. Using the Playback Menu English 35 Photo, Video & Audio Playback Slideshow SLIDESHOW The Slideshow function allows you to view all stored photos in a START continuous sequence. INTERVAL < 5SEC > To view a slideshow: OFF LOOP EXIT 1. Press the MENU button to select SLIDESHOW from the menu. 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. 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. English Resize 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. 2. Press the Up/Down navigation buttons and the OK button to select the resize ratio you require: 6M, 4M, 2M, 1M, VGA, EXIT. 3. Select EXIT to return to the main menu. RESIZE 6M 4M 2M 1M VGA 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.



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The ratio of the image (3:2 or 16:9) remains unchanged after resizing. · This function only supports pictures taken with this camera · 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 images cannot be resized Using the Playback Menu Photo, Video & Audio Playback 36 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. 3. Press Left/Right navigation button to rotate the selected image. Press the OK or MENU button to confirm the one you needed. ROTATE MENU Rotate Protect You can lock a photo or video to protect it from being accidentally erased.

To lock a photo or video: 1. Press the MENU button to select PROTECT from the menu. 2. Use the Left/Right navigation button to select ON or OFF. 3. 4. Protect icon displays at the top of the screen to indicate the photo/video is now locked. To unprotect a photo or video, perform the steps 1 and 2 again. 1/140 DPOF SLIDESHOW RESIZE ROTATE PROTECT < ON > Using the Playback Menu English 37 Photo, Video & Audio Playback D-Lighting When in review state, user can do lighting compensation by enabling D-Lighting via Playback menu. To apply lighting effect on a photo: 1.

Press the MENU button to select D-LIGHTING from the menu and press OK to process. D-LIGHTING RED-EYE REMOVAL FISH EYE FRAME COMPOSITE MOVE > English 2. Press the Up/Down navigation button and the OK button to select from the three available options: · NEW FILE: Select to save the fixed image to a new file. · OVERWRITE: Select to overwrite the original image. · EXIT: Select to discard the change to the image and return to the main menu. NEW FILE OVERWRITE EXIT Red-Eye Removal The Red-Eye Removal 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 process. D-LIGHTING RED-EYE REMOVAL FISH EYE FRAME COMPOSITE MOVE > 2. Press the Up/Down navigation buttons and the OK button to select from the three available options: · NEW FILE: Select to save the fixed image to a new file.

· OVERWRITE: Select to overwrite the original image. · EXIT: Select to discard the change to the image and return to the main menu. NEW FILE OVERWRITE EXIT Using the Playback Menu Photo, Video & Audio Playback 38 Note: 1. The Red-Eye Removal is only available after taking photo with flash. 2.

If no red-eye is found, the message "Cannot process correctly" appears on the screen. The Fish Eye function allows you to perform fish eye effect on a saved photo. To add fish eye effect on your picture: 1. Press the MENU button to select FISH EYE from the menu and press the OK to process. D-LIGHTING RED-EYE REMOVAL FISH EYE FRAME COMPOSITE MOVE > 2.

Press the Up/Down navigation buttons and the OK button to select from the three available options: · NEW FILE: Select to save the fixed image to a new file. · OVERWRITE: Select to overwrite the original image. · EXIT: Select to discard the change to the image and return to the main menu. NEW FILE

OVERWRITE EXIT Frame Composite The Frame Composite function supports nine 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 image you want to apply a frame.

button and select the D-LIGHTING RED-EYE REMOVAL FISH EYE FRAME COMPOSITE MOVE > Using the Playback Menu English Fish Eye 39 Photo, Video & Audio Playback 3. Press the MENU button again to select Frame Composite from the menu and then press OK to enter. MENU OK Enter English 4.

5. Use the 4-way navigation (Left/Right/Up/Down) button to select the frame type you like and press the OK button. Press OK button to save the picture as NEW FILE or OVERWRITE the original one, or EXIT to main menu. NEW FILE OVERWRITE EXIT 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 & Audio Playback 40 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 MOVE from the menu.

2. Press the Up/Down navigation buttons and the OK button to select from the three 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. MOVE THIS IMAGE ALL IMAGES EXIT > Note: The Move function is only available when you choose internal memory as the storage media and an SD card has been inserted into the camera.

Divide The Divide function allows you to cut unnecessary portions of a video. This feature is useful when the memory capacity is insufficient or when users want to trim video clips. To divide a video: 1. Press the MENU button to select DIVIDE from the menu. 2. Press the OK button to enter the edit mode. 3. Use the Up/Down navigation buttons to select the portion of the video you want to delete. · Beginning of the new video clip End of the new video clip OK 00:00:20 SLIDESHOW PROTECT DIVIDE OFF > Using the Playback Menu English 41 Photo, Video & Audio Playback 4. 5.

Press and hold the Left/Right navigation buttons to specify the beginning and end position of the new video clip and release at the frame you want to stop. Press the Up/Down navigation buttons and the OK button to select from the following options: · Select to review the trimmed video clip. English · · OK Select to save the trimmed video clip as a new file or overwrite the original video. Select EXIT to discard the changes. Select to return to the main menu. NEW FILE

OVERWRITE EXIT Note: The Divide function is only available when a video file is selected. Video clips shorter than one second cannot be edited.

Transferring Photos/Videos to your PC To transfer photos and videos to your PC, you need to set the USB mode as MSDC first. Follow the on-screen instructions to complete the installation: 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.



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Copy the files from the drives to the directory on your PC. Use ArcSoft MediaImpression (provided on the software CD) to view or edit the photos and videos respectively. Transferring Photos/Videos to your PC Camera Settings 42 Camera Settings 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 capture modes.

2. Use the Left/Right navigation buttons to select the Setup menu. 3. Press the Up/Down navigation button to select the function from menu and press OK to enter. LCD BRIGHTNESS FILE NO.

DIGITAL ZOOM QUICK VIEW CAMERA SOUND OFF OFF LCD Brightness The LCD Brightness setting allows you to brighten or darken the LCD backlight. Use the Up/Down navigation buttons to increase or decrease the brightness. LCD BRIGHTNESS MENU OK Done File Number The File No. setting allows you to reset the file number to 0001 when the camera creates a new folder. Otherwise, the next file number will be used. Select RESET to reset or CONTINUE (default) to set the file numbers in continuous order. NO. FILE NO. RESET CONTINUE The Setup Menu English 43 Camera Settings Digital Zoom The Digital Zoom setting allows you to turn the digital zoom function on or off. Select ON to enable the function or OFF (default) to disable it.

LCD BRIGHTNESS FILE NO. DIGITAL ZOOM QUICK VIEW < OFF > ON English CAMERA SOUND 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 delete /face beautification button to delete the photo immediately. Select ON (default) to enable the function or OFF to disable it. LCD BRIGHTNESS FILE NO. DIGITAL ZOOM QUICK VIEW CAMERA SOUND OFF < ON > Note: The Quick View function is not available in M-Burst modes. 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 exit to the main menu.

CAMERA SOUND VOLUME START-UP SHUTTER EXIT < 1 1 > The Setup Menu Camera Settings 44 Power Saving The Power Saving setting allows you to adjust the length of time that LCD screen turn dim to save battery power. Four options are available: · OFF · 15 SEC (default) · 30 SEC · 1 MIN POWER SAVING OFF 15 SEC 30 SEC 1 MIN 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. Two options are available: · 5 MIN (default) · 2 MIN AUTO POWER OFF 5 MIN 2 MIN Video Out The Video Out setting allows you to adjust the video output, depending on the type of your TV. Two options are available: · NTSC · PAL POWER SAVING AUTO POWER OFF VIDEO OUT USB MODE DATE STAMP < NTSC > MSDC The Setup Menu English 45 Camera Settings Date Stamp The Date Stamp setting allows you to adjust the format in which the date will appear on each photo. 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. @@@@Scroll down the list and select your language. Press the OK button to confirm. LANGUAGE ENGLISH DEUTSCH FRANÇAIS ITALIANO ESPAÑOL The Setup Menu Camera Settings 46 Image Storage The Image Storage setting allows you to specify where photos and video clips will be stored. The camera features Approx.

20 MB internal memory but you can also insert an SD/SDHC card (See "Inserting an SD/SDHC Memory Card" on page 11 for more details). Two options are available: · AUTO (default): When selected, the camera chooses the storage medium automatically. If an SD/SDHC card is inserted in the camera, all photos and videos are stored on the card. @@@@EXIT: Select to exit to the main menu. FMT FORMAT MEMORY CARD INTERNAL MEMORY EXIT > The Setup Menu English 47 Camera Settings Reset The Reset setting allows you to reset the camera to the original factory default settings except date&time, language, and video out format. This means all modifications you have made to the camera settings will be cleared. Once selected, the Reset screen displays a confirmation message. Select YES (default) to proceed or NO to cancel. Reset to camera default setting? YES NO English Voice Memo The Voice Memo setting allows you to record a voice memo when a photo is taken or in playback mode. Select ON to enable the Voice Memo function or OFF (default) to disable it.

ABC LANGUAGE IMAGE STORAGE FMT FORMAT RES RESET VOICE MEMO < OFF > About The About screen allows you to check the current firmware version of the camera. ABOUT FW VERSION : 1.0000 The Setup Menu Specifications 48 Specifications Resolution / Image Type General LCD Dimensions Exterior Casing Aperture Optical Zoom Digital Zoom Focal Length Optics Photo Graphic Range 12.1M Pixels/1/2.3CCD 2.7" TFT, 230,000 Pixels 97.5 (W) X 58.5 (H) X 23.0 (D) mm Plastic housing + Plastic top band Wide: F3.5, Tele: F5.

9 Up to 5X Up to 5X f=5.05 mm (W), 25.25 mm (T) (f=28 mm ~ 140 mm, 35 mm equivalent) Normal: 0.5 m ~ infinity (W), 2.0 m ~ infinity (T) Macro: 0.1 ~ 0.8 m (W), 1.0 ~ 2.1 m (T) Landscape: 1.0 m ~ infinity (W), 3.

0 m ~ infinity (T) Support seamless AF in Auto/P-mode/Auto Panorama 2 ~ 1/1000 Sec. None Yes Auto, ISO 80/100/200/400/800/1600 Support SD/SDHC card up to 32 GB Auto Flash, Flash Off, Fill Flash, Red-eye Reduction Auto, Auto scene, P-Mode, Auto Panorama, Smile Catch, Sport, Landscape, Night Landscape, Portrait, Self Portrait, Night Portrait, Museum, Snow, Sunset, Fireworks, Beach, Party, Foliage, Kids & Pets, Copy, Backlight, Frame Composite,

Audio, Video 1/4" Standard Yes Shutter Speed Viewfinder Auto Power Off / Time Out ISO Equivalent External Memory Flash Modes Camera Features SCENE Mode Tripod Mount Macro English 49 Specifications Image File Formats Image Quality Mode Image Resolution Still Image: JPEG (Exif2.21) Still Image: 12M (4000X3000), 10.7M 3:2 (4000X2664), 9M 16:9 (4000X2248), 8M (3264X2448), 5M (2576X1932), 3M (2048X1536), 2M (1600X1200), VGA (640X480) Movie Mode: 640X480@30fps, 320X240@30fps Best, Better, Good Version 1.1 Yes Selectable +/-2.0 EV with 0.3 EV steps High, Normal, Low Vivid, Color, Black&White, Sepia Matrix, Center Weighted, Spot Multi-Zone, Center, Selected area W: 0.3 ~ 3.0 m @ ISO 400 T: 1.0 ~ 1.

8 m @ ISO 400 Yes, High ISO Single Mode, Burst Mode, Multi-Burst (VGA@16 shots) Yes Yes 2 or 10 seconds Up to 6X (0.



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5 steps) Auto, Sunny, Tungsten, Fluorescent, Cloudy English Capture Features Quality Levels DPOF Erase Protection Exposure Compensation Sharpness Color AE Metering Focus Flash Range Anti-Shake Drive Mode Quick Delete Quick View Self-timer Playback Magnify White Balance Specifications 50 Video Out Speaker Video Movie File Format Movie Length Microphone Audio Recording Power Connectivity Battery Battery Life Camera Interface Host Platform Operating Temperature Standards Language PAL, NTSC Mono AVI (Motion JPEG with sound) Close to 80 min. Max. file size is 4 G Wave format D-LI108 CIPA 200 shots USB 2.0 (high speed) Windows XP/Vista/7 0°C ~ 40°C English/German/French/Italian/Spanish/Portuguese/Simplified Chinese/Traditional Chinese/Russian/Arabic/Turkish/Japanese/Dutch/Polish/Hungarian/Greek/Danish/Swedish Mono English 51 Troubleshooting Troubleshooting Problem Camera does not turn on Action · The battery may be exhausted. Charge or replace the battery. · The battery is installed incorrectly. Reinsert the battery observing the correct polarity. Press the Power button again to turn on the camera. Press any button to turn on the LCD when POWER SAVING setting (30 SEC or 1 MIN) is activated.

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

Incorrect TV-out type was selected. Set correct TV-out type to match your TV system. Delete unnecessary images. English Camera turns off automatically LCD turns dim 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 52 Information for Users on Collection and Disposal of Old Equipment and Used Batteries 1. In the European Union These symbols on the products, packaging and/or accompanying documents mean that used electrical and electronic equipments and batteries should not be mixed with general household Used electrical/electronic equipments and batteries must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products. Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments and batteries to designated collection facilities free of charge*. In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one. *Please contact your local authority for further details. By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling. 2.

In other countries outside the EU These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal. For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you don't purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch. Note for the batteries symbol (bottom two symbol examples): This symbol might be used in combination with a designation for the chemical element or compound in use.

In this case you have to comply with the requirement set by the Directive for the chemicals involved.
waste. English .



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