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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX OPTIO E90. You'll find the answers to all your questions on the PENTAX OPTIO E90 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

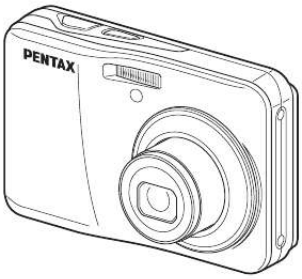
User manual PENTAX OPTIO E90
User guide PENTAX OPTIO E90
Operating instructions PENTAX OPTIO E90
Instructions for use PENTAX OPTIO E90
Instruction manual PENTAX OPTIO E90

PENTAX EN

Digital Camera

Optio E90

Operating Manual



Compatible with Windows 7 ArcSoft SDHC

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

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Manual abstract:

Regarding trademarks PENTAX and Optio are trademarks of HOYA CORPORATION. SDHC Logo is a trademark of SD-3C, LLC. This product supports PRINT Image Matching III. PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant. Copyright 2001 Seiko Epson Corporation. All Rights Reserved. PRINT Image Matching is a trademark of Seiko Epson Corporation. @@@@@@in the United States and/or other countries. @@Windows Vista is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. Macintosh and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries. Regarding Product Registration In order to serve you better, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website. Thank you for your cooperation. Refer to chapter 7 for more information. There is a possibility that the illustrations and the display screen in this manual are different from the actual product. In this manual, both an SD Memory Card and an SDHC Memory Card are referred to as SD Memory Cards hereafter. In this manual, the generic term "computer(s)" refers to either a Windows PC or a Macintosh hereafter.

To users of this camera · Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage the stored data, or affect the product's internal circuitry and cause camera misoperation. · The liquid crystal panel used in the display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image. · If you point the camera toward an object that is bright, a band of light may appear on the LCD screen. This phenomenon is referred to as "smear" and is not a malfunction of the camera. · In this manual, the term "battery" refers to any type of batteries used for this camera and accessories.

USING YOUR CAMERA SAFELY We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols. Warning This symbol indicates that violating this item could cause serious personal injuries. Caution This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses. About the Camera Warning · Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks if the camera is taken apart. · If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock. · Wrapping the strap of the camera around your neck is also dangerous. Please take care that small children do not hang the strap around their necks. 1 · If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the batteries and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock. · Do not place your finger over the flash when discharging the flash. You may burn yourself. · Do not discharge the flash while it is touching your clothing as there is a risk of discoloring. · Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.

· Should the LCD be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or in your mouth. · Depending on your inherent factors or physical condition, the use of the camera may cause itching, rashes or blisters. In case of any abnormality, stop using the camera and get medical attention immediately. About the Batteries Warning · Be sure to store the battery out of the reach of small children. Placing it in their mouths may cause an electric shock. · If any leakage from the batteries should come in contact with your eyes, it may cause a loss of sight. Flush your eyes with clean water and get medical attention immediately. Do not rub them. Caution · This camera uses two AA alkaline, AA lithium or AA Ni-MH batteries. Do not use batteries other than those specified here. Using some other type of battery may cause the camera to function poorly, or the batteries may explode or cause a fire. · AA alkaline and AA lithium batteries cannot be recharged. Do not try to take the batteries apart. The batteries may explode or leak if you try to charge them or take them apart.

· Do not insert the batteries with the positive (+) and negative (-) poles in the wrong orientation. Doing so may cause the batteries to explode or cause a fire. · When replacing the batteries, do not combine different brands, types or capacities. Also, do not combine old batteries with new ones. Doing so may cause the batteries to explode or cause a fire. · Never try to disassemble or short the batteries. Also, do not dispose of the batteries in a fire, as they may explode. 2 · Do not charge any batteries other than rechargeable Ni-MH batteries. The batteries could explode or catch fire. Batteries for use with this camera other than Ni-MH batteries cannot be charged.

· If any leakage from the batteries should come in contact with skin or clothes, wash the affected areas thoroughly with water. · Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal. Keep the Camera and Accessories Out of the Reach of Small Children Warning · Be sure to keep the camera and its accessories out of the reach of small children. 1. Injuries may result from the product falling or from unexpected movement. 2. Suffocation may result from wrapping the strap around the neck. 3. Small accessories such as batteries or an SD Memory Card may be swallowed. Seek medical attention immediately if an accessory is accidentally swallowed. About the AC Adapter Warning · Use an AC adapter that is of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.

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The specified voltage is 100 -240V AC. · Do not disassemble or modify the product. This can cause a fire or electric shock. · If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue use and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electric shock. · If water should happen to get inside the product, consult a PENTAX Service Center. Continuing to use the product can cause a fire or electric shock.

· If a thunder storm should occur while using the battery charger, unplug the AC plug cord and discontinue use. Continuing to use the product can cause damage to the equipment, fire, or electric shock. · Wipe off the plug of the AC plug cord if it becomes covered with dust. Dust on the plug may cause a fire. 3 Caution · Do not place heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending. If the AC plug cord becomes damaged, consult a PENTAX Service Center. · Do not short or touch the output terminals of the product while it is still plugged in. · Do not plug in the AC plug cord with wet hands. This can cause an electrical shock. · Do not subject the product to strong impacts or allow it to drop onto a hard surface.
This can cause a malfunction. · To reduce the risk of hazards, use only CSA/UL Certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent. Care to be Taken During Handling Before Using Your Camera · When traveling, take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad. · When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or when traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc. Precautions on Carrying and Using Your Camera · The lens on this camera is not interchangeable. The lens is not removable.
· Do not subject the camera to high temperatures or high humidity. Do not leave the camera in a vehicle, as the temperature can get very high. · As this camera is not waterproof, do not use the camera where it may come in contact with rain, water or any other liquid. · Do not subject the camera to strong vibrations, shocks, or pressure. Use a cushion to protect the camera from vibrations of motorcycles, automobiles, or ships. If the camera is subjected to strong vibrations, shocks or pressure, take your camera to your nearest PENTAX Service Center and have it checked. 4 · The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F). · The monitor may appear black under high temperatures, but will return to normal as temperatures normalize. · The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.

· Sudden temperature changes will cause condensation on the inside and outside of the camera. Place the camera in your bag or a plastic bag, removing the camera after temperature of the camera and surroundings are equalized. · 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 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 overtighten the screw in the tripod socket on the camera. Cleaning Your Camera · Do not clean the product with organic solvents such as thinner, alcohol or benzene. Storing Your Camera · Do not store the camera with preservatives or chemicals.
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...194 9 In this manual, the method for operating the four-way controller is shown in illustrations, such as in the one below. 2or 4or 3or 5or The meanings of the symbols used in this Operating Manual are explained below. 1 indicates the reference page number for an explanation of the related operation. indicates information that is useful to know. indicates precautions to be taken when operating the camera. This is the mode for capturing still pictures and recording movies. In this manual, the mode for taking still pictures is referred to as the "Still Picture Capture Mode" and the mode for recording movies is referred to as the "C mode".

This is the mode for viewing still pictures and playing back movies. A mode Q mode 10 Composition of the Operating Manual This Operating Manual contains the following chapters. 1 Getting Started This chapter explains what you need to do after purchasing the camera before you start taking pictures.

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Be sure to read it and follow the instructions. 1 2 Common Operations This chapter explains common operations such as the functions of the buttons and how to use the menus.
For more details, refer to the respective chapters below. 2 3 3 Taking Pictures This chapter explains the various ways of capturing images and how to set the relevant functions. 4 4 Playing Back and Deleting Images This chapter explains how to view still pictures and movies on the camera or on a TV and how to delete images from the camera. 5 5 Editing and Printing Images This chapter explains the various ways of printing still pictures and how to edit images with the camera. For information on transferring images to a computer and installing the provided application software, see "Connecting with Computers" in chapter 7.
For details on editing and printing images on a computer, see the Help menu of the application software. 6 7 6 Settings This chapter explains how to set the camera-related functions. 8 7 Viewing Images on a Computer This chapter explains how to connect the camera to your computer, install the supplied CD-ROM S-SW104, etc. 8 Appendix This chapter deals with troubleshooting and lists the optional accessories. 11 Camera Features In addition to basic picture-taking, the Optio E90 has a variety of shooting modes to suit different situations. This section describes how to make the most of the key features of your camera. Together with the explanations of camera operations, it will enable you to enjoy your camera to the full. Advanced Movie Recording and Picture Taking Functions The Optio E90 has a shake reduction function to reduce camera shake during movie recording (p.96). Use the camera to shoot fun-filled movies of your children or pets as a visual diary of their development (p.

*93). Perfect for Portrait Shots! The Optio E90 comes with a "Face Detection" function that spots the faces in your shot and automatically adjusts the focus and exposure for the faces. It can detect up to 10 people per shot (*), so it will help you take perfect group shots too. It will automatically release the shutter when people are smiling, so you can always get the best shot. It also has a feature that lets you enlarge each person's face in sequence during playback so you can quickly check their facial expressions. * Up to 10 face detection frames are displayed on the monitor. Face Detection function (p.61) Modes for taking stunning pictures of people (p.71) Face Close-up Playback for easy checking during playback (p.110) 12 Add Various Frames to Your Pictures! When you take a picture with the Optio E90, you can choose from a wide range of fun frames to create attractive framed shots (p.*
76). You can also add frames to pictures you have taken and adjust the position of the subject in the picture or reduce or enlarge the picture size to match the frame shape and size. Now you no longer have to worry about the subject not being aligned in the frame (p.129). For decorating your pictures with a frame. Easy-to-Navigate Capture and Playback Functions! The user-friendly design of the Optio E90 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select the shooting mode (p.59) and choose the optimal settings for the situation, or the playback mode (p.104, p.122) and enjoy the various playback and editing functions.
A guide on the display lets you check the functions available in each mode and how to use them. A shooting mode guide is displayed in the Capture Mode Palette and a playback mode guide in the Playback Mode Palette (p.59, p.104). Use the Green Mode to take pictures easily using standard settings (p.66). 13 Display Images in Calendar Format! With the Optio E90, you can display recorded images by date in calendar format (p.103). This lets you quickly find the image you want to play back. A multitude of functions inside the camera for enjoying images without a Computer! The Optio E90 has a variety of functions to let you enjoy playing back and editing images without having to connect the camera to your computer and transfer the images first.

The camera is all you need to take and edit still pictures (p.122). And no more worries about accidentally deleting images, because now, with the Optio E90, you can recover them again (p.115). Resize (p.122), Cropping (p.123) and Red-eye Compensation (p.128) can be used, while the image is displayed in the playback mode. 14 Checking the Contents of the Package Camera Optio E90 Strap O-ST86 (*) Software (CD-ROM) S-SW104 USB cable I-USB98 (*) Two AA alkaline batteries Operating Manual (this manual) Quick Guide Items marked with an asterisk (*) are also available as optional accessories. For other optional accessories, refer to "Optional Accessories" (p.
183). 15 Names of Parts Front Self-timer lamp Flash Lens Microphone Speaker Tripod socket Battery/Card cover Back Power switch Shutter release button PC/AV terminal Strap lug Display 16 Names of Operating Parts Power switch Shutter release button Zoom/f/y button Q button I button Four-way controller 4/W button Green/i button 3 button Refer to "Understanding the Button Functions" (p.44 - p.47) for an explanation of the function of each button. 17 Monitor Indications Display in A Mode The display shows information such as the camera settings in the capture mode.
The display changes in the following sequence each time you press the 4/W button: Normal Display, Detailed Display, No Info. Normal Display 38 Detailed Display 38 OK 10M 200 02/02/2010 14:25 02/02/2010 14:25 OK OK No Info · To prevent camera shake, use a tripod and/or the self-timer function (p.

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78). · When the shooting mode is set to 9 (Green) 38 mode, the monitor display is as shown on the right. You cannot change the information on the display by pressing the 4/W button.
· While shooting in C (Movie) mode, you cannot change the information on the display by pressing the 4/W button. The display is fixed at Normal Display. 18 Normal Display in Still Picture Capture Mode 56 1 2 7 38 8 9 10 11 12 3 4 1/250 F3.5 +1.0 02/02/2010 14:25 13 14 15 16 1 2 3 4 5 6 7 8 Shooting mode (p.59) Face Detection icon (p.61) Shutter speed Aperture Flash mode (p.84) Drive mode (p.78, p.79) Focus mode (p.

86) Digital zoom/Intelligent zoom icon (p.67) 9 10 11 12 13 14 15 16 Memory status (p.35) Remaining image storage capacity Battery level indicator (p.29) Focus frame (p.56) Date and time (p.41) EV compensation (p.90) Date Imprint setting (p.92) World time setting (p.145) * 3 and 4 appear only when the shutter release button is pressed halfway. * As to 7, when the focus mode is set to = and the Auto-Macro function is activated, the q appears on the display (p. 86). * Some indications may not appear depending on the shooting mode. 19 Detailed Display/No Info Display in Still Picture Capture Mode A1 to A13 and B1 appear when "Detailed Display" is selected. Only B1 appears when "No Info" is selected. A3 A4 A5 A1 A2 B1 A6 A7 38 10M 200 A8 A9 A10 A11 B2 B3 1/250 F3.
5 +1.0 +1.0 02/02/2010 14:25 A12 A13 A1 A2 A3 A4 A5 A6 Shooting mode (p.59) Face Detection icon (p.61) Flash mode (p.
84) Drive mode (p.78, p.79) Focus mode (p.86) Digital zoom/ Intelligent zoom icon (p.67) A7 Memory status (p.35) A8 Remaining image storage capacity A9 Battery level indicator (p.29) A10 Recorded pixels (p.88) A11 Sensitivity (p.90) A12 EV compensation (p.90) A13 Date Imprint setting (p.

92) B1 Focus frame (p.56) B2 Shutter speed B3 Aperture * B2 and B3 appear only when the shutter release button is pressed halfway. * When the shooting mode is b (Auto Picture) and if you press the shutter release button halfway, the selected shooting mode appears in A1 even when "No Info" is selected (p.63). * Some indications may not appear depending on the shooting mode. 20 Display in Q Mode The display shows the shooting information of the image in Q mode. The display changes in the following sequence each time you press the 4/W button: Normal Display, Detailed Display, No Info. Normal Display 100 - 0026 Edit 02/02/2010 14:25 OK Detailed Display 100 - 0026 OK 10M 200 1/250 F3.5 Edit 02/02/2010 14:25 OK No Info Edit During movie playback, you cannot change the information on the display by pressing the 4/W button. The display is fixed at Normal Display.
21 Normal Display/Detailed Display in Still Picture Playback Mode (All of the display items are displayed here for explanatory purposes.) The display shows information such as the shooting conditions. A1 to A10 appear when "Normal Display" or "Detailed Display" is selected. B1 to B4 appear only when "Detailed Display" is selected. A3 A1 A2 A4 100 - 0038 A5 A6 A7 A8 B1 B2 B3 B4 10M 200 1/250 F3.
5 Edit 02/02/2010 14:25 A9 A10 A1 Playback mode Q : Still Picture Playback Mode (p.104) A2 Face Detection icon (p.61) A3 Protect icon (p.116) A4 Memory status (p.35) A5 Folder number (p.
148) A6 File number A7 Battery level indicator (p.29) A8 Volume icon A9 Captured date and time (p.41) A10 Four-way controller guide B1 Recorded pixels (p.88) B2 Sensitivity (p.90) B3 Shutter speed B4 Aperture * A2 appears only if the Face Detection function worked when the image was shot. * In "Normal Display", A7 and A9 disappear if no operation is performed for two seconds. * A8 appears only when the volume is being adjusted during playback of movies. (p.101) * A10 appears even when "No Info" is selected, but disappears if no operation is performed for two seconds. When no operation is performed for two seconds in "Normal Display" or "Detailed Display", only "Edit" disappears.

22 Guide Indications A guide for each available button operation appears as follows on the display during operation. Four-way controller (2) Four-way controller (3) Four-way controller (4) Four-way controller (5) 3 button 2 3 4 5 MENU Zoom button 4/W button Shutter release button Green/i button I button OK SHUTTER X/i I/J 23 Memo 24 1 Getting Started Attaching the Strap .....
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..... 27 Installing the SD Memory Card ...
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... 31 Turning the Camera On and Off .....

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37 Attaching the Strap Attach the strap (O-ST86) supplied with the camera. 1 Getting Started 2 1 1 2 Pass the narrow end of the strap through the strap lug. Pass the other end of the strap through the loop and pull tight. 26 Powering the Camera Installing the Batteries Install the batteries into the camera. Use two AA alkaline, AA lithium or AA Ni-MH batteries. 1 Getting Started 1 2 Open the battery/card cover. Slide the battery/card cover in the direction 1. The cover will automatically open in the direction 2 when you release your fingers from it. Insert the batteries, making sure the (+) and () terminals on the batteries match the (+) and () symbols inside the battery compartment. Make sure to check the direction of the batteries.

If the battery is incorrectly oriented, malfunction may result. 3 Close the battery/card cover and slide it in the opposite direction of 1. 27 1 Getting Started 28 · AA alkaline and AA lithium batteries are not rechargeable. · Do not open the battery/card cover or remove the batteries while the camera is turned on. · If you do not intend to use the camera for a long time, remove the batteries. If the batteries are left in the camera for a long time, they may leak. · If the batteries

have been removed from the camera for a long time, when they are reinserted and the camera is turned on, the message [Battery depleted] may appear. This can also happen when using the camera for the first time; however this is not a malfunction. Turn the camera off, wait a minute and then turn the camera on again to reset the camera. The date and time may also be reset.

· Insert the batteries correctly. If the batteries are incorrectly oriented, malfunction may result. If the ends of the batteries look dirty, wipe them before inserting into the camera. · Be careful as the camera or the batteries may become hot when the camera is used continuously for a long period of time. Use the AC adapter kit K-AC62 (optional) if you intend to use the camera for a long time.

*(p.29) Recordable Image No., Movie Recording Time, and Playback Time (When using new AA alkaline batteries at 23°C with the display on) Recordable Image No.*1 (flash used for 50% of shots) Approx. 220 pictures Movie Recording Time*2 Approx. 100 min. Playback Time*2 Approx.*

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*400 min. *1 Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with display on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions. *2 According to the result of in-house testing. · In general, battery performance may temporarily deteriorate as the temperature decreases. Be sure to take spare batteries when using the camera in a cold region and keep the batteries warm by placing them in your pocket or inside your coat. Battery performance that has deteriorated due to cold temperature will return to normal performance when the batteries reach room temperature. · Due to their characteristics, AA alkaline batteries may not allow the camera to make full use of its capabilities when used at cold temperatures.*

Use of AA lithium or AA Ni-MH batteries is recommended when the camera is used at cold temperatures. · Be sure to take spare batteries with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures. Battery Level Indicator You can check the battery level by the indicator on the display. Screen Display (green) (green) (yellow) (red) [Battery depleted] Battery Status Adequate power remains. Batteries are running low. Batteries are running very low. Batteries are exhausted. The camera will turn off after this message appears. 1 Getting Started AA nickel manganese batteries may not display the battery level correctly due to their characteristics. may be displayed for the battery level even if the batteries are running low.
The camera may also turn off without warning even if is displayed. Using the AC Adapter Use of the AC adapter kit K-AC62 (optional) with a household power supply is recommended if you intend to use the camera for a long time or connect it to a computer. AC plug cord DC coupler AC adapter DC terminal DC coupler cable 29 1 1 Getting Started 30 Connect the DC terminal of the AC adapter to the DC input terminal of the DC coupler. Make sure that the camera is turned off and open the battery/card cover. Slide the battery/card cover in the direction 1.
The cover will automatically open in the direction 2 when you release your fingers from it. 2 3 4 Insert the DC coupler into the battery compartment, making sure the (+) and () terminals on the coupler match the (+) and () symbols inside the battery compartment. Open the DC coupler cable cover, pass the DC coupler cable through the opening, and close the battery/card cover. Slide the battery/card cover in the opposite direction of 1. Slide the battery/card cover all the way in to make sure it is securely closed.
5 6 Connect the AC plug cord to the AC adapter. Plug the AC plug cord into the power outlet. · Make sure that the camera is turned off before connecting or disconnecting the AC adapter. · Make sure that the AC plug cord and the DC coupler cable are inserted securely. The data may be lost if either becomes disconnected while data is being recorded on the SD Memory Card or the built-in memory. · Use the AC adapter with due care to avoid fire or electric shock. Be sure to read "USING YOUR CAMERA SAFELY" (p.1) and "About the AC Adapter" (p.3) before using the AC adapter. · Be sure to read the operation manual accompanying the AC adapter kit K-AC62 before using the adapter.

Installing the SD Memory Card This camera uses either an SD Memory Card or an SDHC Memory Card. (Both cards are referred to as SD Memory Cards hereafter.) Captured images are saved on the SD Memory Card if a card is inserted in the camera. They are saved in the built-in memory if a card is not inserted (p.35). · Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been used in other cameras or digital devices. Refer to "Formatting an SD Memory Card" (p.140) for instructions on formatting. · Make sure that the camera is turned off before inserting or removing the SD Memory Card. · The still picture storage capacity varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels (p. 34). · The power switch blinks while the SD Memory Card is being accessed (data is being recorded or read). 1 Getting Started Backing Up Data The camera may not be able to access data in the built-in memory in the case of a malfunction. Use a computer or other device to back up important data in another location. 31 1 Getting Started SD Memory Card socket Battery/ Card cover SD Memory Card 1 2 3 Open the battery/card cover.
Slide the battery/card cover in the direction 1. The cover will automatically open in the direction 2 when you release your fingers from it. Insert the SD Memory Card into the SD Memory Card socket so that the label is facing toward the display. Push the card in until it clicks. Images may not be recorded correctly if the card is not inserted all the way.
Close the battery/card cover and slide it in the opposite direction of 1. To Remove the SD Memory Card 1 2 Open the battery/card cover. Push the card into the SD Memory Card socket to eject it. Pull the card out. 32 Precautions When Using an SD Memory Card · The SD Memory Card is equipped with a writeprotect switch. Setting the switch to LOCK prevents new data from being recorded on the card, the stored data from being deleted, and the card from being formatted by the camera or Write-protect computer. r appears on the display when the card is switch write-protected. · Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot. · Keep the card cover closed and do not remove the SD Memory Card or turn the camera off while images are being played back or saved to the card, or the camera is connected to a computer with the USB cable, as this may cause the data to be lost or the card to be damaged. · Do not bend the SD Memory Card or subject it to violent impact.

Keep it away from water and store away from high temperature. · Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable. · The data on the SD Memory Card may be deleted in the following circumstances. We do not accept any liability for data that is deleted (1) when the SD Memory Card is mishandled by the user. (2) when the SD Memory Card is exposed to static electricity or electrical interference. (3) when the card has not been used for a long time. (4) when the card is ejected or the batteries are removed while the data on the card is being recorded or accessed. · If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer. · Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
· Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.

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· When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time. · Be sure to format an SD Memory Card that is unused or has been used on another camera. Refer to "Formatting an SD Memory Card" (p.140).

1 Getting Started 33 Number of Images Recordable on an SD Memory Card 1 Getting Started 34 The sizes of the recorded images differ depending on the number of recorded pixels of the images, so the number of images that will be saved on an SD Memory Card also differs. Choose the appropriate number of recorded pixels for still pictures on the [A Rec.Mode] menu. Selecting the Recorded Pixels 1p.88 Choose the appropriate number of recorded pixels in [Movie] on the [A Rec.

Mode] menu. Selecting the Recorded Pixels for Movies 1p.94 For an approximate guide to the number of images or the length of recorded movies that will be saved on an SD Memory Card, see "Main Specifications" (p.185). Turning the Camera On and Off Power switch 1 Getting Started 1 Press the power switch. The camera turns on and the display turns on. When you turn the camera on, the lens cover opens and the lens extends. If the [Language/] screen or [Date Adjustment] screen appears when you turn the camera on, follow the procedure on p.37 to set the display language and/or current date and time. 2 Press the power switch again.

The display turns off, the lens closes, and the camera turns off. Taking Still Pictures 1p.56 Checking the Memory Card The memory card is checked when the camera turns on and the memory status is displayed. a : The SD Memory Card is inserted. Images will be saved on the SD Memory Card. +: The SD Memory Card is not inserted. Images will be saved in the built-in memory. r : The write-protect switch on the SD Memory Card is in the LOCK position (p.33). Images cannot be recorded.

Memory status 38 02/02/2010 14:25 35 1 Getting Started 36 If the batteries have been removed from the camera for a long time, when they are reinserted and the camera is turned on, the message [Battery depleted] may appear. This can also happen when using the camera for the first time; however this is not a malfunction. Turn the camera off, wait a minute and then turn the camera on again to reset the camera. The date and time and other settings may also be reset. Follow the procedure on p.

37 to set these settings again. Playback Mode Use this mode when you want to play back an image straightaway without taking any more pictures. Power switch Q button 1 Press the power switch while holding down the Q button. The display turns on with the lens retracted and the camera turns on in the playback mode. To switch from the playback mode to the capture mode, press the Q button or press the shutter release button halfway.

Playing Back Still Pictures 1p.100 Initial Settings The [Language/] screen appears when the camera is turned on for the first time. Perform the operations in "Setting the Display Language" below to set the language, and in "Setting the Date and Time" (p.41) to set the current date and time. Language, Date, and Time can be changed later. Refer to the pages below for instructions. · To change the language, follow the steps in "Changing the Display Language" (1p.147). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.142).

1 Getting Started Setting the Display Language Four-way controller 4 button 3 button 1 Use the four-way controller (2345) to choose the display language. English Dansk Deutsch Svenska Suomi Polski Italiano Nederlands Magyar MENU Cancel OK OK 37 2 1 Getting Started 38 Press the 4 button. The [Initial Setting] screen appears in the English selected language. If the desired settings Hometown for [Hometown] and [DST] (Daylight Saving DST New York OFF Time) appear, press the four-way controller Settings complete (3) twice to select [Settings complete] and MENU Cancel press the 4 button to display the [Date Adjustment] screen. Go to "Setting the Date Daylight saving time and Time" (p.41). Go to Step 3 in "To Set Hometown and DST" (p.40) if the desired settings do not appear. Initial Setting If you accidentally select another language and go to the next procedure, perform the following operation to set the language back. When Another Language Has Been Inadvertently Selected 1 Getting Started 1 2 Press the four-way controller (5).

Use the four-way controller (2345) to select the language and press the 4 button. The [Initial Setting] screen appears in the selected language. When the Screen After Step 2 Appears in Another Language 1 2 3 4 5 6 7 Press the 4 button. Press the 3 button. Press the four-way controller (5).

Use the four-way controller (32) to select [Language/]. Press the four-way controller (5). The [Language/] screen appears. Use the four-way controller (2345) to select the language. Press the 4 button.

The [W Setting] menu appears in the selected language. The language is now switched to your desired language. To reset [Hometown], [Date] and [Time], refer to the pages below for instructions. · To change [Hometown], follow the steps in "Setting the World Time" (1p.145). · To change the [Date] and [Time], follow the steps in "Changing the Date and Time" (1p.142). 39 To Set Hometown and DST 3 1 Press the four-way controller (3). The frame moves to [Hometown]. 4 Press the four-way controller (5).

The [Hometown] screen appears. 40 Getting Started Initial Setting English Hometown New York Settings complete MENU Cancel 5 Use the four-way controller (45) to choose the city. Hometown City DST New York OK MENU Cancel OK 6 7 8 9 10 Press the four-way controller (3). The frame moves to [DST] (Daylight Saving Time). Use the four-way controller (45) to select O (On) or P (Off). Press the 4 button. The [Initial Setting] screen appears. Press the four-way controller (3) to select [Settings complete]. Press the 4 button. The [Date Adjustment] screen appears.

Next, set the date and time. Setting the Date and Time Set the current date and time and the display style. 1 2 Press the four-way controller (5). The frame moves to [mm/dd/yy]. 1 Getting Started Use the four-way controller (23) to choose the date and time display style.

Choose from [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd]. Date Adjustment Date Format mm/dd / yy 24h Date Time MENU Cancel 01/01/2010 00:00 Settings complete 3 4 Press the four-way controller (5). The frame moves to [24h]. Use the four-way controller (23) to select [24h] (24-hour display) or [12h] (12-hour display). Date Adjustment Date Format mm/dd / yy 24h Date Time MENU Cancel 01/01/2010 00:00 Settings complete 5 6 7 Press the four-way controller (5).

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The frame returns to [Date Format]. Press the four-way controller (3). The frame moves to [Date]. Press the four-way controller (5). The frame moves to the month. Date Adjustment Date Format mm/dd / yy 24h Date Time MENU Cancel 01/01/2010 00:00 Settings complete 41 8 1 Getting Started 42 Use the four-way controller (23) to change the month. Change the day and year in the same manner. Next, change the time. If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time. Date Adjustment Date Format mm/dd / yy 24h 01/01/2010 00:00 Settings complete MENU Cancel Date Time 9 10 Press the four-way controller (3) to select [Settings complete].

Press the 4 button. The setting is saved and the camera returns to capture status. [Language/], [Date], [Time], [Hometown], and [DST] can be changed. Refer to the pages below for instructions. · To change the language, follow the steps in "Changing the Display Language" (1p.147). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.142). · To change the city or turn DST on and off, follow the steps in "Setting the World Time" (1p.145).

When the [Initial Setting] or [Date Adjustment] screen is displayed, you can cancel the setting operation and switch to the capture mode by pressing the 3 button. In this case, the [Initial Setting] screen will appear next time you turn the camera on. If you press the 4 button in Step 10, the camera clock is reset to 00 seconds. To set the exact time, press the 4 button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

The video output format (NTSC/PAL) is set to the format of the city selected in [Hometown] on the [Initial Setting] screen. Refer to "List of World Time Cities" (p.182) for the video output format of each city set as the initial setting, and "Changing the Video Output Format" (p.149) for changing the setting of the video output format. 2 Common Operations Understanding the Button Functions .

.... 44 Setting the Camera Functions .....

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. 49 Understanding the Button Functions A Mode 2 Common Operations 1 2 3 4 5 6 7 8 9 1 2 Power switch Turns the camera on and off (p.35). Shutter release button Focuses the camera on the subject when pressed halfway in Still Picture Capture Mode (except in 3 and s modes). Takes the still picture when pressed down fully (p.

57). Starts and stops movie recording in C (Movie) mode (p.93). 3 4 5 Zoom button Changes the captured area (p.67).

Q button Switches to the Q mode (p.48). I button Switches the Face Detection function (p.61). The Face Detection function is switched as follows each time the I button is pressed: Smile Capture Face Detection Off Face Detection On 44 6 Four-way controller (2) (3) (4) (5) Changes the drive mode (p.78, p.79). Displays the Capture Mode Palette (p.59). Changes the flash mode (p.

84). Changes the focus mode (p.86). 7 8 9 4/W button Changes the information on the display (p.18). Green button Switches to the 9 (Green) mode (p.66). 2 Common Operations 3 button Displays the [A Rec.Mode] menu (p.49).

45 Q Mode 1 2 2 Common Operations 3 4 5 6 7 8 9 1 2 3 Power switch Turns the camera on and off (p.35). Shutter release button Switches to A mode (p.48). Zoom/f/y button Press f during single-image display to change to four-image display, and press f again to change to nine-image display.

Returns to the previous display when y is pressed (p.102). Enlarges the image when y is pressed during single-image display. Returns to the previous display when f is pressed (p.109).

Press f during nine-image display to change to folder or calendar display (p.103). Press y during folder display to change to the normal nine-image display (p.103). Press y during calendar display to change to the normal nine-image display (p.103). Adjusts the volume during playback of movies (p.101). 4 Q button Switches to A mode (p.48).

46 5 I button Zooms in on the subject's faces in a face-detected image in the order the faces were detected when the picture was taken. (Face close-up playback) (p.110). 6 Four-way controller (2) (3) Plays back and pauses a movie (p.101). Displays the Playback Mode Palette (p.104). Stops a movie during playback (p.101). Displays the previous or next image during single-image (45) display (p.

100). Frame forwards, frame reverses, plays back in reverse, plays back normally, plays back in fast-forward, and plays back in reverse fast-forward when playing back movies (p.101). (2345) Moves the display area during zoom display (p.109).

Selects an image in four-image/nine-image display, a folder in folder display, and a date in calendar display (p.102, p.103). Moves the image when using the Frame Composite function (p.129).

2 Common Operations 7 4/W button Changes the information on the display (p.18). Returns zoom display or four-image/nine-image display to singleimage display (p.102, p.109). Changes to nine-image display of the selected folder during folder display (p.103). Changes to single-image display of the selected date during calendar display (p.103). 8 Green/i button Switches from single-image display to the Delete screen (p.

111). Switches from four-image/nine-image display to the Select & Delete screen (p.112). Switches from folder display to the calendar display screen (p.103). Switches from calendar display to the folder display screen (p.103). Saves the paused frame as a single image during the playback of a series of successive images taken with 16-frame shooting function. (p.101) 9 3 button Displays the [W Setting] menu during single-image display (p.

49). Returns to single-image display during Playback Mode Palette display (p.104). Returns zoom display or four-image/nine-image display to singleimage display (p.102).

Changes to nine-image display of the selected folder during folder display (p.103). Changes to nine-image display of the selected date during calendar display (p.103). 47 Switching Between A Mode and Q Mode In this manual, the capture mode, such as for taking still pictures, is referred to as "A mode" (the capture mode).

The playback mode, such as for displaying captured images on the display, is referred to as "Q mode" (the playback mode). In Q mode, you can perform simple editing operations on the images that are played back. Follow the procedure below to switch between A mode and Q mode. To Switch from A Mode to Q Mode 2 Common Operations 48 1 1 Press the Q button. The camera switches to Q mode. To Switch from Q Mode to A Mode Press the Q button or the shutter release button halfway. The camera switches to A mode. Displaying data stored in the built-in memory When an SD Memory Card is inserted in the camera, images and movies on the SD Memory Card are displayed. If you want to display images and movies in the built-in memory, turn the camera off and remove the SD Memory Card, or follow the procedure below to use the "Built-in memory display" function.

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Make sure that the camera is turned off before inserting or removing the SD Memory Card.

Viewing images in the built-in memory while the SD Memory Card is inserted (built-in memory display) · When you press and hold down the Q button for more than 1.2 seconds in A mode or while a menu is being displayed, the lens is retracted. After the message [Plays back stored images in the built-in memory] appears, images and movies stored in the built-in memory are displayed. · In the built-in memory display, you can play back still pictures (including enlarged display) (p.100, p.109) and movies (p.101), and switch between fourimage display, nine-image display, folder display, and calendar display (p.102). · In the built-in memory display, you cannot delete data, delete a selection, display the Playback Mode Palette, or display the menu. If you want to perform any of these operations on images or movies in the built-in memory, do so after removing the SD Memory Card.

Setting the Camera Functions To change the camera settings, press the 3 button to display the [A Rec.Mode] menu or [W Setting] menu. Menus for playing back and editing images are displayed from the Playback Mode Palette. Operating the Menus Press the 3 button in A mode to display the [A Rec.Mode] menu. Press the 3 button in Q mode to display the [W Setting] menu. Use the four-way controller (45) to switch between [A Rec.Mode] menu and [W Setting] menu. 2 Common Operations 49 During recording 38 During playback 100-0038 100 0038 02/02/2010 14:25 2 MENU Edit 02/02/2010 14:25 MENU 50 Common Operations SHUTTER Rec. Mode 1/2 Setting 1/3 Recorded Pixels 10M Focusing Area Auto Sensitivity EV Compensation 0.

0 Movie Digital Zoom MENU Exit Sound Date Adjustment 02/02/2010 World Time English Date Folder Name USB Connection PTP MENU Exit Rec. Mode 1/2 Setting 1/3 Recorded Pixels 10M Focusing Area Auto Sensitivity EV Compensation 0.0 Movie Digital Zoom MENU Exit Sound Date Adjustment 02/02/2010 World Time English Date Folder Name USB Connection PTP MENU Exit MENU or Press halfway The setting is complete and the camera returns to A mode 38 100-0038 100 0038 02/02/2010 14:25 Edit 02/02/2010 14:25 The setting is complete and the camera returns to Q mode Available button operations appear on the display during menu operation. Ex.) To set the [Focusing Area] on the [A Rec.Mode] menu 1 2 Press the 3 button in A mode. The [A Rec.Mode] menu appears. Press the four-way controller (3). The frame moves to [Recorded Pixels].

Rec. Mode 1/2 Recorded Pixels 10M Focusing Area Auto Sensitivity EV Compensation 0.0 Movie Digital Zoom MENU Exit 2 Common Operations 3 4 Press the four-way controller (3). The frame moves to [Focusing Area]. Press the four-way controller (5). A pull-down menu appears with the items that can be selected. The pull-down menu displays only those items that can be selected with the current camera settings. Rec. Mode 1/2 Recorded Pixels 10M Focusing Area Auto Sensitivity EV Compensation 0.0 Movie Digital Zoom MENU Exit 5 Use the four-way controller (23) to change the setting.

The focusing area changes each time the four-way controller (23) is pressed. Rec. Mode 1/2 Recorded Pixels 10M Focusing Area Sensitivity EV Compensation Movie Digital Zoom MENU Cancel OK OK 6 Press the 4 button or the four-way controller (4). The setting is saved and then the camera is ready for setting the other functions. To exit the settings, press the 3 button.

To use another operation, refer to the alternate Step 6 options on the next page. 51 To Save the Setting and Start Taking Pictures 6 Press the shutter release button halfway. The setting is saved and the camera returns to capture status. When the shutter release button is pressed fully, the picture is taken. 2 Common Operations 52 When the [W Setting] menu is displayed from Q mode, you can switch to A mode by pressing the Q button.

To Save the Setting and Begin Playback of Images 6 Press the Q button. When the [A Rec.Mode] menu is displayed from A mode, the setting is saved and the camera returns to playback status. To Cancel the Changes and Continue with Menu Operations 6 Press the 3 button. The changes are canceled and the screen returns to Step 3. The 3 button function differs depending on the screen. Refer to the guide indications. MENU Exit MENU : Exits the menu and returns to the original screen. : Returns to the previous screen with the current setting. MENU Cancel : Cancels the current selection, exits the menu and returns to the previous screen.

Menu List This displays the items that can be set with the menus and provides descriptions of each item. See the list of default settings in the Appendix "Default Settings" (p.178) to decide whether you want the settings saved when the camera is turned off and whether you want the settings returned to the defaults when the camera is reset. [A Rec.Mode] Menu This menu shows the functions related to taking still pictures and recording movies. Item Recorded Pixels Focusing Area Sensitivity EV Compensation Recorded Pixels Movie SR Description For choosing the number of recorded pixels of still pictures For changing the area of the autofocus For setting the sensitivity For adjusting the overall brightness of the picture For choosing the number of recorded pixels of movies For choosing whether or not to use the movie shake reduction function For choosing whether or not to use the digital zoom function For choosing whether to save the set values of the shooting function or return to the defaults when the camera is turned off For choosing whether to imprint the date and/or time when taking still pictures Page p.88 p.87 p.90 p.90 p.

94 p.96 p.69 p.97 p.92 2 Common Operations Movie Digital Zoom Memory Date Imprint Use the 9 (Green) mode to enjoy easy picture-taking using standard settings, regardless of the settings in the [A Rec.

Mode] menu (p.66). 53 [W Setting] Menu Item Sound Date Adjustment World Time Description For adjusting the operation volume and playback volume, and setting the start-up sound, shutter sound, key operation sound and self-timer sound For adjusting the date and time For setting the Hometown and Destination For setting the language in which menus and messages appear For choosing how names are assigned to folders for storing images For setting the method for connecting to a computer (MSC or PTP). For setting the output format to the AV equipment For changing the brightness of the display For setting the time until the camera enters powersaving mode For setting the time until the camera turns off automatically For returning settings other than the date and time, language, world time and video out to their defaults For deleting all images at once. For formatting the SD Memory Card Page p.

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153 p.114 p.140 2 Common Operations 54 Language/ Folder Name USB Connection Video Out Brightness Level Power Saving Auto Power Off Reset Delete all Format 3 Taking Pictures Taking Still Pictures .....

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..... 56 Setting the Shooting Functions ....

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..... 93 Saving the Settings (Memory) ..

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97 Taking Still Pictures Taking Pictures The Optio E90 features a wide range of shooting modes and functions to suit almost any subject or scene. This chapter describes how to take pictures with the most commonly used standard settings (the initial factory default settings). 3 Taking Pictures 56 Power switch Shutter release button Zoom button 1 2 Press the power switch. The camera turns on and is ready to take still pictures. In this manual, this is called Still Picture Capture Mode.

Confirm the subject and shooting information on the display. The focus frame in the middle of the display indicates the zone of automatic focusing. 38 02/02/2010 14:25 When the camera detects a face, the Face Detection function is activated and the face detection frame appears (p.61). You can change the captured area by pressing the Zoom button to the left or right (p.67). T (Right) enlarges the subject. W (Left) widens the area that is captured by the camera. Focus frame 38 02/02/2010 14:25 Face detection frame 3 Press the shutter release button halfway. The focus frame (or face detection frame) on the display turns green when the camera focuses on the subject at the correct distance.

38 1/250 F4.6 02/02/2010 14:25 4 Press the shutter release button fully. The picture is taken. The flash discharges automatically depending on the light conditions. The image appears on the display for two seconds (Instant Review) and is saved to the SD Memory Card or the built-in memory. Press the Green button to switch to the 9 (Green) mode and let the camera set all the shooting functions automatically (p.66). 3 Taking Pictures Using the Shutter Release Button The shutter release button works in a two-step action as follows. Press halfway This refers to pressing the shutter release button gently to the first position. This locks the focus setting and the exposure.

The green focus frame lights on the display when the shutter release button is pressed halfway and the subject is in focus. If the subject is out of focus, the frame turns white. Press fully This refers to pressing the shutter release button all the way down to the fully depressed position. This takes a picture. Not pressed Pressed halfway Pressed fully (first position) (second position) 57 Poor focusing conditions The camera may not be able to focus under the following conditions.

In these cases, lock the focus on an object the same distance away as the subject (by pressing and holding the shutter release button halfway), then aim the camera at your subject and press the shutter release button fully. Objects that lack contrast such as a blue sky or white wall Dark places or objects, or conditions that prevent light being reflected back Horizontal lines or intricate patterns Fast moving objects When there is an object in the foreground and an object in the background in the captured area · Strongly reflected light or strong backlighting (bright background) · · · · · 3 Taking Pictures 58 Setting the Shooting Mode The Optio E90 has a variety of shooting modes that let you take pictures or record movies in different situations simply by choosing the appropriate mode for the particular situation from the Capture Mode Palette. 3 Four-way controller 4 button Taking Pictures 1 2 Press the four-way controller (3) in A mode. The Capture Mode Palette appears. Use the four-way controller (2345) to choose a shooting mode.

When an icon is selected in the Capture Mode Palette, the selected shooting mode guide appears. Landscape 1/2 For capturing landscape views. Enhances colors of sky and foliage OK OK MENU Cancel 3 Press the 4 button. The shooting mode is selected and the camera returns to capture status. 38 02/02/2010 14:25 Some functions may not be available or may not function fully depending on the selected shooting mode. For details, refer to "Functions Available for Each Shooting Mode" (p.172). 59 There are 20 available shooting modes. Shooting Mode Description Automatically selects the best capture mode. Used for basic shooting.

Various functions can also be set with this mode. For night time images. Use of a tripod or other support is suggested. For images of people at night. Use of a tripod or other support is advised. For portraits with proper framing by automatic zoom. Fixed at h pixels. For recording movies. Page p.63 p.

64 p.70 p.70 p.71 p.93 b Auto Picture R Program A Night Scene B Night Scene Portrait Half-length Portrait 3 Taking Pictures 60 C C Movie H Landscape I P Flower Portrait Q Surf & Snow \ Sport For capturing landscape views.

Enhances colors of -- sky and foliage. For images of flowers. The outline of the flower is -- softened. For capturing portraits. Reproduces a healthy and p.

71 bright skin tone. For bright images such as sand or snow. p.74 Accurately meters for bright scenes. For a fast moving subject. Tracks the subject until p.74 the picture is taken. Higher sensitivity reduces blur. For capturing moving kids. Reproduces a healthy and bright skin tone.

For capturing moving pets. Select the color according to the pet's coat. For images of food and prepared dishes. Enhances saturation and contrast. For images of people. Enhances skin tones while smoothing blemishes. For capturing scenes in candlelight. p.70 p.72 p.

73 -- p.71 p.70 c Digital SR R Y K Kids Pet Food Natural Skin V Tone U Candlelight Stitches images taken with the camera to create a p.81 F Digital Panorama panoramic photograph. For capturing images with a frame.

Recorded p.76 J Frame Composite pixels is fixed at h. K Sunset For images of sunsets and warm lighting. p.70 Using the Face Detection Function With the Optio E90, the Face Detection function is available with all shooting modes.

When the camera detects a person's face in the image, the Face Detection function displays a yellow face detection frame around the face on the display

screen, sets the focus (Face Detection AF) and compensates the exposure (Face Detection AE). If the subject in the face detection frame moves, the frame also moves and changes size as it tracks the face. The Face Detection function can detect up to 10 people's faces. If it detects multiple faces, the camera displays a yellow frame over the main face and white frames over the other face(s). It can display up to a total of 10 frames, including a main frame and white frame(s). 38 02/02/2010 14:25 Face detection frame 3 Taking Pictures When multiple faces are detected 38 02/02/2010 14:25 Main frame White frame · Face Detection AF and AE may not work if the subject is wearing sunglasses, has part of the face covered or is not looking toward the camera.

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