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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX OPTIO W60. You'll find the answers to all your questions on the PENTAX OPTIO W60 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 W60
User guide PENTAX OPTIO W60
Operating instructions PENTAX OPTIO W60
Instructions for use PENTAX OPTIO W60
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Manual abstract:

To users of this camera · There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields. · 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. · 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. Regarding trademarks · PENTAX and Optio are trademarks of HOYA CORPORATION.

· SDHC logo () is trademark. · 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. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation. · All other brands or product names are trademarks or registered trademarks of their respective companies. Regarding PictBridge PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images.

You can print images directly from the camera through a few simple operations. Regarding Product Registration In order to better serve you, 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 the PC Connection Manual (bottom right of the front side) for more information. 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. · To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a card is accidentally swallowed. · 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. · 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. · If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the battery and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock. 1 Caution · Do not charge any batteries other than rechargeable lithium-ion battery D-LI78.

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. · If any leakage from the battery 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. · If any leakage from the battery should come in contact with skin or clothes, it may cause irritation to the skin. Wash the affected areas thoroughly with water. · Precautions for D-LI78 Battery Usage: - USE SPECIFIED CHARGER ONLY. - DO NOT INCINERATE.

- DO NOT DISASSEMBLE. - DO NOT SHORT CIRCUIT. - DO NOT EXPOSE TO HIGH TEMP. (140°F / 60°C) · Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal. · 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 Battery Charger and the AC Adapter Warning · Do not use the product at a voltage other than the specified voltage. Use with a power source or voltage other than that designed can cause a fire or electrical shock. The specified voltage is 100-240V AC. · Do not disassemble or modify the product. This can cause a fire or electrical shock. 2 · If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue using and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical 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 electrical shock. · If thunder storm should be present during use of the battery charger or AC adapter, unplug the power cord and discontinue use.

Continuing to use the product can cause damage to the equipment, fire or electrical shock. · Wipe off the plug of the power cord if it should become covered with dust. This can cause a fire. 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.



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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. · Do not use the battery charger to charge batteries other than rechargeable lithium-ion battery D-LI78. This can cause overheating or malfunctions. · 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. 3 Care to be Taken During Handling · 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 during 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. · The lens on this camera is not interchangeable.

The lens is not removable. · Do not clean the product with organic solvents such as thinner, alcohol or benzene. · Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside. · Storing the camera where pesticides and chemicals are handled should be avoided. Remove the camera from its case and store in a well-ventilated place to prevent the camera from becoming moldy during storage. · Ensure that the camera is not subjected to substantial vibrations, shocks or pressure as this may cause damage, malfunction, or a loss in waterproof performance. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, ship, etc. If the camera is subjected to substantial vibrations, shocks or pressure, take your camera to your nearest PENTAX Service Center and have it checked. · The temperature range in which the camera can be used is -10°C to 40°C (14°F to 104°F).

· The liquid crystal display will become black at a high temperature but will return to normal when normal temperatures are returned to. · 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. · 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. 4 · Refer to "Precautions When Using an SD Memory Card" (p.33) regarding the SD Memory Card. · Please note that commercially available recovery software may be able to read the data on an SD Memory Card even if the format or delete function of a camera or computer was used to delete the data. 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 overtighten the screw in the tripod socket on the camera. · The AC plug cord supplied with the camera is for exclusive use with the battery charger D-BC78. Do not use it with any other equipment. · Storing the battery fully charged may decrease the battery performance. Avoid storing it especially in high temperatures. If the battery is left inserted and the camera is not used for a long time, the battery will over-discharge and shorten the battery's service life. · Charging the battery a day before use or on the day of use is recommended.

Waterproof and Dustproof Function · This camera is provided with a waterproof/dustproof design complying with JIS waterproof grade 8 and JIS dustproof grade 5 (equivalent to IP58). · To enhance the waterproof performance of the camera, the front of the lens is protected by glass. As any dirt or water on the glass will affect the quality of pictures taken, the glass should be kept clean at all times. · Leaving the camera on the sand at the beach may cause the camera to exceed its operating temperature or cause the speaker or microphone to become blocked with sand. · The camera will

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.....

.....

.....

.....

.....

....38 Initial Settings

.....

.....

.....

.....

.....

.....

.....

.....

....39 Setting the Display Language.

.....

.....

.....

.....

.....

.....

.39 Setting the Date and Time....

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

...41 Quick Start 43 Taking Still Pictures..

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

....43 Playing Back Still Pictures.....

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

.....45 Playing Back Images .

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

....45 Playing Back the Previous or Next Image .

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

.....45 Rotating the Displayed Image ...

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

...46 Common Operations 47 Understanding the Button Functions

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

.....
47 A Mode

.....
.....

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

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

.....*47 Q Mode .*

.....
.....

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

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

.....*49 Setting the Camera Functions ...*

.....
.....

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

.....*51 Setting with the Menus*

.....
.....

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

.....
...51 Menu List ..

.....
.....

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

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

.....

.54 Setting the Shooting Mode

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

..56 7 Setting the Face Recognition function...

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

.....59 Setting Blink Detection

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

...61 Using the Playback Function

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

.62 Taking Pictures 64 Taking Pictures

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

....64 Taking Pictures Automatically (Auto Picture Mode)

.....

..64 Setting The Functions (Program Mode) ...

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

.....65 Taking Pictures in the Basic Mode (Green Mode)..

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

....66 Taking Pictures of Dark Scenes (Night Scene/Digital SR (Blur Reduction)/Fireworks Mode)

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

....68 Taking Underwater Pictures (Underwater Mode/Underwater Movie Mode) .

.....
.....

.69 Framing Your Pictures (Frame Composite)

.....
.....

..71 Taking Pictures of People (Portrait/Night Scene Portrait Mode)73 Zooming and Taking Pictures of People (Half-length Portrait Mode)

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

.....75 Taking Pictures of Your Pet (Pet Mode) ...

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

.....77 Taking Pictures of Children (Kids Mode) ..

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

...79 Taking Pictures of Text (Text Mode) ..

.....
.....

....81 Taking Panoramic Pictures (Digital Panorama Mode).....

.....
.....

....82 Using the Digital Wide Function (Digital Wide Mode)

.....
.....

84 Using the Self-timer

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

.....
.....
.....
.....87 Taking a Series of Pictures (Continuous Shooting/High Speed Continuous Shooting Mode)...

.88 Taking Pictures at a Set Interval (Interval Shoot)

.....
.....
.....90 Taking Pictures with Automatic Exposure Adjustment (Auto Bracket)..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

....93 Using the Zoom .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....94 Setting the Exposure (EV Compensation)...

.....

.....

.....

.....

.....

97 Displaying Shooting Information in Capture Mode

.....

.....

98 Setting the Shooting Functions.....

.....

.....

.....

.....

.....

.....

.....100 Selecting the Focus Mode

.....

.....

.....

.....

.....

.....

.....

.....100 Selecting the Flash Mode

.....

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

.....102 *Selecting the Recorded Pixels...*

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

104 *Selecting the Quality Level*

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

.....107 *Adjusting the White Balance.*

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

.....108 *Setting the AE Metering....*

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

110 *Setting the Sensitivity*

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

.....112 *Setting the Autofocus Conditions ...*

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

.....115 *Setting Interval Shoot*

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

...117 Setting the Instant Review Time (Instant Review).....

.....
.....

.....120 Setting the Green Button ...

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

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

.....121 Setting the Image Sharpness (Sharpness).

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

....124 8 Setting the Color Saturation (Saturation).



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OPTIO W60 user guide
http://yourpdfguides.com/dref/1191395](http://yourpdfguides.com/dref/1191395)

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

.....
.....
..125 Setting the Image Contrast (Contrast)..
.....
.....

.....
.....
.....
.....
....126 Setting the Date Imprint Function
.....

.....
.....
.....
.....
...127 Saving the Settings (Memory) ..
.....
.....

.....
.....
.....
.....
128 Recording Movies
.....
.....

.....
.....
.....
.....
.....130 Recording a Movie...
.....
.....

.....
.....
.....
.....
.....130 Selecting the Recorded Pixels and Frame Rate for Movies .
.....

...133 Recording Movies in Black and White or Sepia Tones (Color Mode)..
.....
.....
.....
.....
.....
.....

.....
.....

.....135 Setting the Movie SR (Movie Shake Reduction) Function.

.....
.....

..136 Recording a Movie from Pictures Taken at a Set Interval (Interval Movie).....

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

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

.....137 Selecting the Focusing Method for Recording Movies ..

.....
.....

.....140 Setting the Optical Zoom

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

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

.....141 Playing Back and Deleting Images 142 Playing Back Images ...

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

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

.....142 Switching Between A Mode and Q Mode.

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

..142 Playing Back Still Pictures ...

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

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

..142 Nine-Image Display, Folder Display and Calendar Display ...

.....
.....

..143 Zoom Playback.....

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

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

.....145 Zoom Up on the Subject's Face Automatically (Face close-up playback).

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

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

.....
146 Displaying Shooting Information in Playback Mode

.....
.....

.148 Correcting Camera Shake with Digital SR.....

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

.....149 Slideshow ...

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

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

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

..151 Playing Back Movies

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

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

.....
....153 Playing Back a Movie .

.....
.....

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

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

.153 Connecting the Camera to AV Equipment.....

.....

.....
.....
.....
.....154 *Deleting Images* .

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

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

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

....156 *Deleting a Single Image/Sound File* .

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

....156 *Deleting Selected Images and Sound Files (from Nine-Image Display)*.....

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

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

....158 *Deleting All Images and Sound Files*.....

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

.....
.....

...160 *Recovering Deleted Images* ..

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

.....
.....

161 *Protecting Images and Sound Files from Deletion (Protect)*

...162 *Editing and Printing Images* 164 *Editing Images*

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

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

.....
.....

164 *Changing the Image Size and Quality (Resize)*.....

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

.....
.....
177 Printing Single Images.....
.....

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

.....
.....
.....
177 Printing All Images.....

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

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

...179 Printing Using PictBridge

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

.....180 Connecting the Camera to the Printer ...

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

.....
.....

....180 Printing Single Images.

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

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

.....181 Printing All Images.....

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

.....
.....

.....

.....

.....183 Printing Using the DPOF Settings ...

.....

.....

.....

.....

.....

.....

....184 Disconnecting the Cable from the Printer....

.....

.....

.....

.....

..184 Recording and Playing Back Sound 185 Recording Sound (Voice Recording Mode).....

.....

.....

.....

.....185 Playing Back Sound ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.187 Adding a Voice Memo to Images.....

.....

.....

.....

.....

.....

....188 Recording a Voice Memo .

.....

.....

.....

.....

.....

.....

.....

.....

188 Playing Back a Voice Memo.....

.....

.....

.....

.....

.....

..189 Settings 190 Camera Settings...

.....

.....

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

..190 Formatting an SD Memory Card.....

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

...190 Changing the Sound Settings.....

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

...191 Changing the Date and Time..

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

....193 Setting the Alarm .

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

.....195 Setting the World Time ..

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

...197 Changing the Display Language

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

.....
.....
...199 Changing the Image Folder Name

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

.....
200 Changing the USB Connection Mode.....
.....
.....

.....
.....
.....
...201 Changing the Video Output Format.....

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

.....202 Adjusting the Brightness of the Display .
.....
.....
.....

.....
.....
....203 Using the Power Saving Function .
.....

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

.....204 Setting Auto Power Off ...
.....
.....
.....

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

.....
..205 Setting the Quick Zoom Function ...
.....
.....

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

.206 Setting the Guide Display

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

.....
..207 Resetting to Default Settings (Reset)

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

.....
.....
208 Changing the Start-up Screen

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

.....209 Displaying the Clock Mode .

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

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

.....
..210 Appendix 212 List of World Time Cities....

.....
.....

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

.....
.....

..212 Default Settings...

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

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

.....213 Functions Available for Each Shooting Mode..

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

.....
218 10 Optional Accessories

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

.....
.....
.....
..222 Messages.....

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

.....
.....
.....
.....
..223 Troubleshooting.....

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

.....
..226 Main Specifications ...

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

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

.....228 WARRANTY POLICY....

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

.....232 Index.

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

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

...237 11 In this manual, the method for operating the four-way controller is shown in illustrations, such as in the one below. 2or or4 5or 3or The meanings of the symbols used in this Operating Manual are explained below.

I 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 and sound files. In this manual, the mode for taking still pictures is referred to as "Still Picture Capture Mode", the mode for recording movies is referred to as "Cmode", and the mode for recording sound is referred to as "O mode". This is the mode for viewing still pictures and playing back movies and sound files. A mode Q mode 12 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. Be sure to read it and follow the instructions. 1 2 Quick Start This chapter explains the simplest way to take pictures and play back images.

Use it if you want to start taking pictures or playing back images straightaway. 2 3 3 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. 4 4 Taking Pictures This chapter explains the various ways of capturing images and how to set the relevant functions. 5 5 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. 6 6 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 software, see the supplied "PC Connection Manual". For details on editing and printing images on a computer, see the Help menu of the software. 7 8 7 Recording and Playing Back Sound This chapter explains how to record sound files or add sound (a voice memo) to an image and how to play back sound files. 9 8 Settings - This chapter explains how to set the camera-related functions.

9 Appendix This section deals with troubleshooting and lists the optional accessories.



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13 Camera Features In addition to basic picture-taking, the Optio W60 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.

Forget Your Worries About Water Getting in the Camera! The Optio W60 is waterproof/ dustproof, and the water resistant coating on the lens cover glass enables you to take pictures underwater for two hours at a depth of 4 meters (13 ft).

It also allows you to let the camera get hit by sprays of water, and use the camera in locations where it will be exposed to dust and dirt such as the beach, a kitchen, a workshop, etc. Because it utilizes a lock mechanism for the battery/card/terminal cover, when the cover is firmly locked, you can use it underwater safe in the knowledge that the batteries and card are also secure. For taking pictures while snorkeling. (p.

69) For taking pictures at the pool or while playing in a river or lake. For taking pictures while enjoying various outdoor activities without worrying about your camera getting a bit dirty. A quick wipe with a wet cloth is all it needs!

14 Advanced Movie Recording and Picture Taking Functions The Optio W60 can record in 16:9 high definition with a frame rate of 15 fps and a resolution of 1280×720. In addition, it comes complete with features to enhance your enjoyment of movies such as image stabilization (Movie SR) during recording and capturing still pictures of important scenes while recording. Preserve the beauty of scenery, such as spectacular natural landscapes, by recording them in high definition. [Selecting the Recorded Pixels and Frame Rate for Movies (p.133)] Record the intense action of sporting events without worrying about blurry images. For example, record the player running and capture still shots of the memorable moment when they cross the finish line. [Setting the Movie SR (Movie Shake Reduction) Function (p.136)] [Taking Still Pictures during Movie Recording (p.

132)] **Add Assorted Frames to Your Pictures!** When you take pictures with the Optio W60, you can add a frame to your pictures by selecting one from the wide assortment available. (p.71) You can also add frames to pictures you have taken. 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.173) For decorating your pictures with a frame. **15 Easy-to-Navigate Capture and Playback Functions!** XXX XXXX XX XXXX XXXX XXXXXXXXXXXX XX XXX XXXX XXX XX The user-friendly design of the Optio W60 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select the shooting mode (p.56) and choose the optimal settings for the situation or the playback mode (p.

142, p.164) 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. (p.56, p.

62) A shooting mode guide is displayed in the Capture Mode Palette and a playback mode guide in the Playback Mode Palette for a few seconds after each mode is selected. (p.56, p.62) Use the Green Mode to take pictures easily using standard settings. (p.

66) **Display Images and Sound Files in Calendar Format!** With the Optio W60, you can display recorded images and sound files by date in calendar format. (p.144) This lets you quickly find the image or sound file you want to play back. **16 Perfect Size for Carrying Around With You!** With its sporty and sharp design and excellent portability, the Optio W60 is just right to slip into a pocket of your bag or hang round your neck, so you always have it with you, like your cell phone. It has a useful clock function, "Clock Mode" for telling the time too. (p.210) A multitude of functions inside the camera for enjoying images without a computer! The Optio W60 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 and movies. (p.164) And no more worries about accidentally deleting images, because now, with the Optio W60, you can recover them again.

(p.161) **Resize (p.164), Cropping (p.166), and Red-eye Compensation (p.172)** can be used, while the image is displayed in Playback mode. You can divide a movie into two or select a frame from a movie to save it as a still picture. (p.175) **17 Checking the Contents of the Package** Camera Optio W60 Strap O-ST20 (*) Software (CD-ROM) S-SW81 USB cable I-USB7 (*) AV cable I-AVC7 (*) Rechargeable lithium-ion battery D-LI78(*) Battery charger D-BC78 (*) AC plug cord Operating Manual (this manual) Items marked with an asterisk (*) are also available as optional accessories. The battery charger and AC plug cord are only sold as a set (Battery Charger Kit K-BC78). For other optional accessories, refer to "Optional Accessories" (p.

222). **18 Names of Parts** Front Power switch/Power lamp (green) Shutter release button Speaker Microphone Flash Self timer lamp Lens Back Battery/Card/Terminal cover lock lever Display Tripod socket PC/AV terminal Battery/Card/Terminal cover Battery lock lever **19 Names of Operating Parts** Power switch Shutter release button Zoom/w/x/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.47 - p.50) for an explanation of the function of each button. **20 Monitor Indications** Normal Display in Still Picture Capture Mode The display shows information such as the shooting conditions.

(p.98) 234 1 17 38 5 6 7 8 9 16 15 14 1/250 F3.5 +1.0 07/07/2008 14:25 10 11 12 13 Shooting mode (p.56) Flash mode (p.

102) Drive mode (p.87 - p.93) Focus mode (p.100) Digital zoom icon (p.94) Intelligent zoom icon (p.94) 6 Memory status (p.37) + : Built-in memory (without card) a : SD Memory Card r : SD Memory Card is write protected 7 Storage capacity 1 2 3 4 5 8 9 10 11 12 13 14 15 16 Battery level indicator (p.28) Focus frame (p.43) Date and time (p.41) World time setting (p.

197) Date Imprint setting (p.127) EV compensation (p.97) Aperture Shutter speed Camera shake warning (p.98) (shown when blurring caused by vibration is likely to occur) 17 Face Priority icon (p.59) * 14, 15 and 16 appear only when the shutter release button is pressed halfway. * Some indications may not appear depending on the shooting mode. 21 Histogram + Info Display in Still Picture Capture Mode 38 10 M 1 2 3 4 5 200 1/250 F3.5 +1.0 +1.0 6 7 8 9 10 11 1 Bright portion (blinks red) 6 2 Dark portion (blinks yellow) 7 3 Camera shake warning (p.

98) 8 (shown when blurring caused by 9 vibration is likely to occur) 10 4 Shutter speed 11 5 Aperture Recorded pixels (p.



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104) Quality level (p.107) White balance (p.108) AE Metering (p.110) Sensitivity (p.112) Histogram (p.99) * 3, 4 and 5 appear only when the shutter release button is pressed halfway. * Some indications may not appear depending on the shooting mode. About the Bright and Dark Portions When there is an area in the frame that is so bright it appears white, the indicated area blinks red as a warning. Similarly, when there is an area that is so dark it appears black, the indicated area blinks yellow as a warning.

22 Full 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 A11 appear when [Normal Display] or [Histogram + Info] is selected. B1 to B10 only appear when [Histogram + Info] is selected. (p.148) A2 A1 B1 B2 B3 B4 B5 B6 B7 B8 B9 100 - 0038 10 M A3 A4 A5 A6 A7 A8 A9 B10 200 1/250 F3.5 A11 A1 Playback mode A10 Captured date and time (p.41) w : Still Picture Playback A11 Four-way controller guide Mode (p.62) B1 Bright portion (blinks red) (p.22) P : Digital SR (p.

149) B2 Recorded pixels (p.104) A2 Face Priority icon (p.59) B3 Quality level (p.107) A3 Folder number (p.200) B4 White balance (p.108) A4 File number B5 AE Metering (p.110) A5 Protect icon (p.162) B6 Sensitivity (p.112) A6 Voice memo icon (p.189) B7 Dark portion (blinks yellow) (p.22) A7 Battery level indicator (p.28) B8 Shutter speed A8 Volume icon B9 Aperture A9 Memory status (p.37) B10 Histogram (p.99) + : Built-in memory (without card) a : SD Memory Card r : Card is write-protected · In Normal Display, A7 and A10 disappear if no buttons are operated for two seconds. · A11 is also displayed when [No Info] is displayed but disappears if no buttons are operated for two seconds. If no buttons are operated for 2 seconds during [Normal Display] or [Histogram + Info], only the [Edit] characters disappear. Guide Indications A guide to available button operations appears on the display during operation. The buttons are indicated as shown below. Four-way controller (2) Four-way controller (3) Four-way controller (4) Four-way controller (5) 3 button 2 3 4 5 MENU Edit 07/07/2008 14:25 A10 Zoom button 4/W button Shutter release button Green/i button I button OK SHUTTER X, i I, J 23 Getting Started Attaching the Strap Attach the strap (O-ST20) supplied with the camera. 1 Getting Started 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. 24 Powering the Camera Charging indicator While charging: Lights Charging finished: Turns off 2 1 To power outlet Getting Started 3 AC plug cord Battery Battery charger 1 Charging the Battery Use the battery charger to charge the battery before using it in the camera for the first time or after a long period of non-use, or when the [Battery depleted] message appears. Note: AC plug cord "Listed, Type SPT-2 or NISPT-2, 18/2 flexible cord, rated 125 V, 7A, minimum 6ft (1.8m)" 1 2 3 4 Connect the AC plug cord to the battery charger D-BC78. Plug the AC plug cord into the power outlet. Place the battery in the charger so that the PENTAX logo is facing up. The charging indicator lights while the battery is charging and turns off when charging is finished. Remove the battery from the battery charger when charging is finished. · The time required to fully charge the battery is about 150 minutes (max.).

The appropriate ambient temperature for charging the battery is 0°C to 40°C (32°F to 104°F). (The charging time may vary depending on the ambient temperature and charging conditions.) · The battery has reached the end of its service life when it starts to run down soon after being charged. Replace with a new battery. · Do not use the battery charger to charge batteries other than the rechargeable lithium-ion battery D-LI78, as the charger may overheat or be damaged. · If the battery is inserted correctly but the charging indicator fails to light, the battery may be faulty. Replace with a new battery. 25 Battery lock lever Battery/Card/Terminal cover lock lever 1 Getting Started Battery/Card/Terminal cover Battery Installing the Battery Use the battery that is provided with the camera. Charge the battery before using it in the camera for the first time. 1 2 Open the battery/card/terminal cover. Press the battery/card/terminal cover lock lever towards 1, slide the cover towards 2 and open it towards 3. Using the side of the battery to press the battery lock lever in the direction of 4, insert the battery with the PENTAX logo pointing toward the lens. Push the battery in until it is locked in place. Make sure that the battery is inserted with the PENTAX logo pointing toward the lens. If the battery is incorrectly oriented, malfunction may result. 3 Close the battery/card/terminal cover. Slide the battery/card/terminal cover lock lever in the opposite direction indicated by 2. If you hear a click, the cover is securely closed. 26 Removing the Battery 1 2 Open the battery/card/terminal cover. Press the battery lock lever towards 4. The battery pops out slightly. Be careful not to drop it during removal. · Do not use excessive force when sliding the battery/card/terminal cover open and closed because the waterproof packing may peel off. If the packing is not in the correct position, the waterproof performance of the camera will be compromised. · If the battery/card/terminal cover is not locked securely when you close it, water, sand, or dirt may get into the camera. · This camera uses a rechargeable lithium-ion battery D-LI78. Use of any other type of battery may damage the camera and cause malfunction. · Insert the battery correctly. If the battery is incorrectly oriented, malfunction may result. · Do not remove the battery while the camera is turned on.

· When storing the battery for more than 6 months, charge the battery for 30 minutes using the battery charger and store the battery separately. Be sure to recharge the battery every 6 to 12 months. Storing the battery below room temperature is ideal. Avoid storing it in high temperatures. · The date and time may be returned to the default setting if the camera is left without the battery for a long time. · Be careful as the camera or the battery may become hot when the camera is used continuously for a long period of time. · Allow the camera to dry completely before changing the battery. Avoid changing the battery where the camera is likely to get wet or dirty, and make sure that your hands are dry. · Battery performance may deteriorate as temperature decreases. When using the camera in cold regions, we recommend carrying a spare battery in your pocket to keep it warm. Battery performance will return to normal in normal temperatures. 1 Getting Started 27 · Image Storage Capacity, Movie Recording Time, Sound Recording Time, and Playback Time (at 23°C with the display on and the battery fully charged) 1 Getting Started 28 Image Storage Capacity*1 (flash used for 50% of shots) Approx.



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205 pictures Movie Recording Time*2 Approx. 75 min. Sound Recording Time*2 Approx.

240 min. Playback Time*2 Approx. 200 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 a spare battery 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 Screen Display (green) (yellow) (red) [Battery depleted] indicator on the display. Battery Status Adequate power remains. Battery is running low. Battery is running very low. Battery is exhausted. The camera will turn off after this message appears. 6 1 1 Getting Started 3 5 DC coupler 4 DC terminal Using the AC Adapter Use of the AC adapter kit K-AC78 (optional) is recommended if you intend to use the camera for a long time or connect it to a computer.

1 2 3 Make sure that the camera is turned off and open the battery/card/terminal cover. Remove the Battery. Refer to p.26 - p.27 on how to open the battery/card/terminal cover and remove the battery. Insert the DC coupler. Using the side of the DC coupler to press the battery lock lever, insert the DC coupler. Confirm that the DC coupler is locked in place. The battery/card/terminal cover will not close while the DC coupler is inserted. Leave the cover open when using the AC adapter and do not attempt to close it.

4 5 6 Connect the DC terminal of the AC adapter to the DC terminal of the DC coupler. Connect the AC plug cord to the AC adapter. Plug the AC plug cord into the power outlet. 29 1 Getting Started 30 · Make sure that the camera is turned off before connecting or disconnecting the AC adapter. · Make sure that the AC plug cord and the power cord connecting the AC adapter to the camera 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 Battery Charger and the AC Adapter" (p.2) before using the AC adapter.

· Be sure to read the operation manual accompanying the AC adapter kit K-AC78 before using the adapter. · When connecting the AC adapter, you cannot set the camera upright on the table because the cord from the DC coupler is extracted from the bottom side of the camera. · Do not use excessive force when sliding the battery/card/terminal cover open and closed because the waterproof packing may peel off. If the packing is not in the correct position, the camera will not be waterproof. Installing the SD Memory Card 1 Getting Started Battery/Card/Terminal cover SD Memory Card socket SD Memory Card This camera uses an SD Memory Card. Captured images and sound files 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.37) · Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been used on other cameras or digital devices. Refer to "Formatting an SD Memory Card" (p.

190) for instructions on formatting. · Make sure that the camera is turned off before inserting or removing the SD Memory Card. · Allow the camera to dry completely before changing the SD Memory Card. Avoid changing the card where the camera is likely to get wet or dirty, and make sure that your hands are dry. · Do not use excessive force when sliding the battery/card/terminal cover open and closed because the waterproof packing may peel off. If the packing is not in the correct position, the camera will not be waterproof. · The still picture storage capacity varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels and quality level. (p.34) · The power lamp blinks while the SD Memory Card is being accessed (data is being recorded or read). 31 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. 1 Getting Started 32 1 2 Open the battery/card/terminal cover. Press the battery/card/terminal cover lock lever towards 1, slide the cover towards 2 and open it towards 3. Insert the SD Memory Card into the SD Memory Card socket so that the label is facing toward the front of the camera (the side with the lens). Push the card in all the way.

Images and sound may not be recorded correctly if the card is not inserted all the way. 3 Close the battery/card/terminal cover. Slide the battery/card/terminal cover lock lever in the opposite direction indicated by 2. If you hear a click, the cover is securely closed. Removing the SD Memory Card 1 2 Open the battery/card/terminal cover.

Push the card into the SD Memory Card socket to eject it. Pull the card out. If the battery/card/terminal cover is not locked securely when you close it, water, sand, or dirt may get into the camera. Precautions When Using an SD Memory Card · The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK protects the existing data by prohibiting recording of new data, deletion of existing data or formatting of the card on Write-protect either the camera or a computer. switch r appears on the display when the card is write-protected. · Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot. · Do not remove the SD Memory Card or turn off the camera while images or sound files are being recorded or played back, or while connected to a computer with the USB cable. Doing so may result in data corruption or damage to the card. · 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 battery is 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.



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· 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. · 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. · For information on compatible SD Memory Cards, visit the PENTAX website. · 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.190) · Please note that formatting the SD Memory Card will not necessarily delete the data so that it cannot be recovered using off-the-shelf data recovery software. There are off-the-shelf secure data deletion software programs available that will completely delete the data. If you are going to discard, give away or sell your SD Memory Card, you should ensure that the data on the card is completely deleted or the card itself is destroyed if it contains any personal or sensitive information. In any case, the data on your SD Memory Card should be managed at your own risk.

1 Getting Started 33 Recorded Pixels and Quality Level of Still Pictures 1 Getting Started 34 Choose the number of pixels (size) and quality level (data compression rate) of still pictures according to how you intend to use the pictures you have taken. Higher quality levels and numbers of pixels produce clearer images, but the resulting increase in data volume reduces the total number of pictures that can be taken (stored in the camera's built-in memory or on the SD Memory Card). The quality of the captured photo or printed picture also depends on the quality level, exposure compensation, resolution of the printer and a variety of other factors, so you do not need to select more than the required number of pixels. As a rough guide, h (2048×1536) is adequate for making postcard-size prints. Refer to the table below for the appropriate settings according to use. Appropriate Number of Recorded Pixels According to Use Recorded Pixels J 3648×2736 7.5 M Use For printing high quality photos or A4-size pictures, or editing images on a computer. Matching the aspect ratio to HDTV produces undistorted pictures. Clearer For making postcard-size prints. (16:9) 3648×2056 a 3072×2304 f 2592×1944 h 2048×1536 V 1280× 960 l 1024× 768 m 640× 480 For posting on a website or attaching to e-mail.

The default setting is J (3648×2736). · Selecting 7.5 M changes the horizontal aspect ratio of the image to 16:9. · Only V (1280×960) can be set for recorded pixels when (Report) mode (p.58) is set. Appropriate Quality Level According to Use C D E Best Better Good Lowest compression rate. Suitable for photo prints. Standard compression rate. Suitable for viewing the image on a computer screen. Highest compression rate.

Suitable for posting on a website or attaching to e-mail. The default setting is D (Better). Choose the appropriate number of recorded pixels and quality level for still pictures on the [A Rec.Mode] menu. Selecting the Recorded Pixels 1p.

104 Selecting the Quality Level 1p.107 1 Getting Started Recorded Pixels, Quality Level and Image Storage Capacity (Approximate numbers of pictures) C (Best) D (Better) E (Good) Built-in Built-in Built-in 512 MB 512 MB 512 MB Memory Memory Memory 9 pictures 117 pictures 17 pictures 228 pictures 24 pictures 321 pictures 12 pictures 156 pictures 12 pictures 14 pictures 22 pictures 49 pictures 75 pictures 155 pictures 22 pictures 287 pictures 29 pictures 377 pictures J 3648×2736 7.5 M (16:9) 3648×2056 a 3072×2304 f 2592×1944 h 2048×1536 V 1280× 960 l 1024× 768 m 640× 480 157 pictures 22 pictures 188 pictures 27 pictures 293 pictures 44 pictures 643 pictures 86 pictures 974 pictures 122 pictures 2014 pictures 233 pictures 287 pictures 29 pictures 377 pictures 355 pictures 38 pictures 503 pictures 570 pictures 63 pictures 816 pictures 1119 pictures 116 pictures 1511 pictures 1590 pictures 155 pictures 2014 pictures 3022 pictures 259 pictures 3358 pictures · The above figures may vary depending on the subject, shooting conditions, shooting mode and SD Memory Card, etc. · Only V (1280×960) can be set for recorded pixels when (Report) mode (p.58) is set.

Recorded Pixels for Movies/Frame Rate You can set the recorded pixels and frame rate (number of frames per second) to suit the intended use of your movie. The higher the number of recorded pixels, the clearer the picture and the bigger the file size. The more frames per second, the better the quality of the movie, but the bigger the file size. The recorded pixels and frame rate for movies are set in [Recorded Pixels] under [Movie] on the [A Rec.Mode] menu. Selecting the Recorded Pixels and Frame Rate for Movies 1p.133 35 Combinations of Recorded Pixels and Frame Rate, and Suggested Uses 1280 15 (1280×720) : 15fps (640×480) : 30fps (640×480) : 15fps (320×240) : 30fps (320×240) : 15fps HD movies with a horizontal aspect ratio of 16:9 (*). For watching on a TV and other AV equipment. 1 Getting Started 36 64030 64015 32030 32015 For posting on websites or attaching to e-mails. * Playback requires a computer.

Combinations of Recorded Pixels and Frame Rate, and Estimated Recording Times Rec. time Built-in Memory 1280 15 512 MB 7 min. 31 sec. 7 min. 31 sec. 14 min. 48 sec. 11 min. 59 sec. 22 min.

53 sec. Available Sound Recording Time Built-in 512 MB Memory (1280×720) : 15fps (640×480) : 30fps (640×480) : 15fps (320×240) : 30fps (320×240) : 15fps 34 sec. 34 sec. 1 min. 8 sec. 55 sec. 1 min. 46 sec. 64030 64015 28 min. 53 sec.

6 hr. 14 min. 15 sec. 32030 32015 · The above figures are based on our standard shooting conditions and may vary depending on the subject, shooting conditions and type of SD Memory Card used. · Movies can be continuously recorded until the built-in memory or SD Memory Card is full, or when using a high capacity SDHC card until the size of the movie reaches 2 GB. If recording stops at 2 GB, start recording again to continue to record the rest of the movie in blocks of 2 GB. · The quality level is fixed at C (Best). Turning the Camera On and Off Power switch/Power lamp 1 Getting Started 1 Press the power switch. The camera turns on and both the power lamp and display turn on. If the Language Selection screen or Date Adjust screen appears when you turn the camera on, follow the procedure on p.

39 to set the display language and/or current date and time. 2 Press the power switch again. The camera turns off and both the power lamp and display turn off.



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Taking Pictures Ip.64 *Checking the Memory Card* The memory card is checked automatically when the camera turns on. + appears on the display when there is no SD Memory Card inserted in the camera. In this case, images and sound files will be saved in the built-in memory. r appears instead of a when the write-protect switch on the SD Memory Card is in the locked position. Images and sound cannot be recorded when the write-protect switch is locked. Memory status 38 07/07/2008 14:25 37 Power switch 1 Getting Started 38 Q button Playback Mode Use this mode when you want to play back an image or sound file straightaway without taking any more pictures.

1 Press the power switch while holding down the Q button. The display turns on and the camera starts up in playback mode. To switch from Playback Mode to A mode, press the Q button or press the shutter release button halfway. *Playing Back Still Pictures* Ip.45 *Initial Settings* Set the language, time, and date after purchasing the camera before you start taking pictures.

1 Getting Started 3 button Four-way controller 4 button 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" (Ip.199). · To change the date and time, follow the steps in "Changing the Date and Time" (Ip.193). *Setting the Display Language* 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 39 2 1 Getting Started 40 Press the 4 button. The Initial Setting screen appears in the selected language. If the desired settings for [Hometown] and daylight saving time appear, press the 4 button again to display the [Date Adjust] screen. Go to "Setting the Date and Time" (p.41).

Go to Step 3 in "Setting Hometown and DST" (p.41) if the desired settings do not appear. Initial Setting English Hometown New York MENU Cancel DST OFF OK OK Daylight saving time 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 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 and the Date and Time, refer to the pages below for instructions. · To change Hometown, follow the steps in "Setting the World Time" (p.197). · To change the Date and Time, follow the steps in "Changing the Date and Time" (p.193). *Setting Hometown and DST* 3 4 5 6 7 8 9 Press the four-way controller (3). The frame moves to [Hometown]. Initial Setting English Hometown New York MENU Cancel Press the four-way controller (5). The Hometown screen appears. 1 Getting Started DST OFF Use the four-way controller (45) to choose the city. Press the four-way controller (3). OK OK 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 4 button. The Date Adjust 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 3 4 5 Press the four-way controller (5). The frame moves to [mm/dd/yy]. Date Adjust Date Style Date Time MENU Cancel Use the four-way controller (23) to choose the date and time display style. Press the four-way controller (5). The frame moves to [24h]. mm/dd/yy 24h 01/01/2008 00:00 OK OK Date Adjust Date Style Date Time MENU Cancel Use the four-way controller (23) to select [24h] (24-hour display) or [12h] (12-hour display). Press the four-way controller (5). The frame returns to [Date Style]. mm/dd/yy 24h 01/01/2008 00:00 OK OK 41 6 1 Getting Started 42 Press the four-way controller (3). The frame moves to [Date].

Date Adjust Date Style Date Time MENU Cancel mm/dd/yy 24h 01/01/2008 00:00 OK OK 7 8 Press the four-way controller (5). The frame moves to the month. Date Adjust Date Style Date mm/dd/yy 24h 01/01/2008 00:00 OK Use the four-way controller (23) to change the month. Change the day and year in the same manner. Time MENU Cancel Next, change the time.

If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time. OK 9 Press the 4 button. The setting is set 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" (Ip.199). · To change the date and time, follow the steps in "Changing the Date and Time" (Ip.193). · To change the city or turn DST on and off, follow the steps in "Setting the World Time" (Ip.

197). When the Initial Setting or Date Adjust screen is displayed, you can cancel the setting operation and switch to 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 9, 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.212) for the video output format of each city set as the Initial Setting, and "Changing the Video Output Format" (p.202) for changing the setting of the video output format.

Quick Start Taking Still Pictures Power switch Shutter release button Zoom/w/x button 2 Quick Start The standard procedure for taking still pictures is described below. The flash fires automatically depending on the light conditions. 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.



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38 Confirm the subject and shooting information on the display. 07/07/2008 14:25 3 4 The focus frame in the middle of the display Focus frame indicates the zone of automatic focusing. You can change the captured area by pressing the Zoom/w/x button to the left or right. x : enlarges the subject w : widens the area that is captured by the camera Press the shutter release button halfway. The focus frame on the display turns green if the subject is in focus.

Press the shutter release button fully. The picture is taken. The image appears on the display for one second (Instant Review) and is saved to the SD Memory Card or built-in memory. (p.44) Press the Green button to switch to the 9 (Green) mode and let the camera set all the shooting functions automatically. (p.66) 43 Using the Shutter Release Button The shutter release button works in a two-step action as follows. 2 Quick Start 44 Press halfway The focus and exposure are locked when the shutter release button is pressed down half-way. 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 red.

Press fully Press the shutter release button all the way down to take a picture. [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, 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 same picture · Strongly reflected light or strong backlighting (bright background) Instant Review The image appears on the display for one second (Instant Review) immediately after it is captured. You can change the Instant Review time. (p.120) Pressing the i button during Instant Review displays the delete image confirmation screen. Select [Delete] with the four-way controller (23) and press the 4 button to delete the image. · When the camera detects that the subject's eyes are closed, the message "Closed eyes have been detected." appears during Instant Review (This function is called "Blink Detection").

· Even when Instant Review is set shorter than [3sec], the message appears for 3 seconds. · When the Face Recognition function (p.59) does not work, "Blink Detection" also does not function. Even if the subject's faces are recognized, "Blink Detection" does not function depending on the condition of the recognized faces. Quick Start Playing Back Still Pictures Shutter release button Q button Four-way controller 2 Quick Start Playing Back Images 1 Press the Q button after taking a picture.

The image appears on the display. In this manual, this is called Q mode (Playback mode). Displaying one image in full in Q mode (Q mode default setting) is called single-image display. Press the Q button again in Q mode or press the shutter release button halfway to switch to A mode. File number 100 - 0038 Edit 07/07/2008 14:25 Playing Back the Previous or Next Image 1 2 Press the Q button after taking a picture.

The image appears on the display. Press the four-way controller (45). The previous or next image appears. 45 Q button Four-way controller 2 Quick Start 46 4 button i button Rotating the Displayed Image 1 2 3 Press the Q button after taking a picture. The image appears on the display. Press the four-way controller (3). The Playback Mode Palette appears. (p.62) Use the four-way controller (234 5) to select s (Image Rotation) and press the 4 button. The rotation selection screen (0°, Right 90°, Left 90°, or 180°) appears.

4 Use the four-way controller (2345) to choose the rotation direction and press the 4 button. MENU Cancel OK OK The rotated image appears. The image is saved in the orientation displayed. · Movies cannot be rotated. · Protected images can be rotated, but they cannot be saved in a rotated state. Deleting the Displayed Image Press the i button while the image is displayed to display the Delete screen. Use the four-way controller (2) to select [Delete] and press the 4 button. (p.156) Delete Cancel All Images/Sounds 100 - 0017 OK OK Common Operations Understanding the Button Functions 1 2 3 4 6 7 8 5 9 3 Common Operations A Mode 1 2 Power switch Turns the camera on and off. (p.

37) Shutter release button Focuses the camera on the subject when pressed halfway in Still Picture Capture mode. (Except in 3, s and \ modes) (p.43) Takes the still picture when pressed down fully. (p.43) Pressing down fully starts and stops movie recording in C (Movie) and (Underwater Movie) modes. (p.69, p.130) Pressing down fully starts and stops sound file recording in O (Voice Recording) mode. (p.185) 3 4 5 Zoom/w/x button Changes the captured area.

(p.94) Q button Switches to the Q mode. (p.142) 3 button Displays the [A Rec.Mode] menu. (p.51) 47 6 I button Switches the Face Recognition function (p.59). The Face Recognition function is switched as follows each time the I button is pressed: Smile Capture Face Priority Off Face Priority On 7 Four-way controller (2) (3) (4) (5) (23) : : : : Changes the drive mode. (p.

87 - p.93) Displays the Capture Mode Palette. (p.56) Changes the flash mode. (p.102) Changes the focus mode. (p.100) Adjusts \ in \ mode. (p.101) 3 Common Operations 48 8 9 4/W button Changes the information on the display.

(p.98) Green button Switches to the 9 (Green) mode. (p.66) Takes a still picture during movie recording. (p. 132) 1 2 3 4 6 7 8 5 9 3 Common Operations Q Mode 1 2 3 Power switch Turns the camera on and off. (p.37) Shutter release button Switches to A mode. (p.142) Zoom/ff/y button In single-image display, pressing towards f switches to nine-image display.

Press y to return to the previous display. (p.143) In single-image display, pressing towards y enlarges the image. Press f to return to the previous display. (p.145) In nine-image display, pressing towards f displays either folder or calendar display. (p.144) In folder display, pressing towards y switches to nine-image display of the selected folder. (p.144) In calendar display, pressing towards y switches to nine-image display for the selected date.

(p.144) Adjusts the volume during playback of movies or sound files. (p.153, p.187) 4 Q button Switches to A mode. (p.142) 49 5 3 button Displays the [W Setting] menu during single-image display. (p.51) Returns to single-image display during Playback Mode Palette display.



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