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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX OPTIO A30. You'll find the answers to all your questions on the PENTAX OPTIO A30 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 A30
User guide PENTAX OPTIO A30
Operating instructions PENTAX OPTIO A30
Instructions for use PENTAX OPTIO A30
Instruction manual PENTAX OPTIO A30

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01-200701 Printed in Philippines

PENTAX™

Optio A30

Digital Camera

Optio A30

Operating Manual

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

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Manual abstract:

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Patent No. 6,407,777 and 7,042,505. Other patents Pending. 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. · There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different from the actual product. · Both SD memory cards and SDHC memory cards are referred to as SD memory cards in this manual. Using your camera safely Sufficient attention has been paid to the safety of this product but please pay particular attention to the warnings indicated by the following symbols during use. Warning These symbols indicate that it is possible that the user may experience serious personal injury if the warnings are not heeded. Caution These symbols indicate that it is possible that the user may experience minor or medium personal injury, or material loss if the warnings are not heeded. 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.

· 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 memory card is accidentally swallowed. · 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 or disconnect the AC adapter and contact your nearest PENTAX service center. Continued use of the camera may result in fire or electric shock. 1 Caution · Never try to disassemble or short the battery. Also, do not dispose of the battery in fire, as it may explode. · Do not charge any batteries other than rechargeable lithium-ion battery D-LI8. 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 of the battery leakage should come in contact with your eyes, it may cause a loss of sight, do not rub them. Flush your eyes with clean water and get medical attention immediately. · If any of the battery leakage should come in contact with skin or clothes, it may cause irritate the skin, wash the affected areas thoroughly with water.

· 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 mouth.

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 100-240 V AC. · Do not disassemble or modify the product. This can cause a fire or electrical shock. · 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. 2 · If thunderstorm 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.

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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. · Remove the battery and unplug the AC plug cord when not using the battery charger. · 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. · Do not use the battery charger to charge batteries other than the ones specified. This can cause overheating or malfunctions.

3 Care to be Taken During Handling · Take the Worldwide Service Network listing that is included in the package with you when traveling. 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 travelling). Contents of a recording such as images and sounds cannot be guaranteed if recording, playback or data transfer from your camera to a computer, etc. is not possible due to a malfunction of your camera or recording medium (SD Memory Card), etc.

· The lens on this camera is not exchangeable. 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. · Do not use the camera where it may come in contact with rain, water or any other liquid, because the camera is not weather, water, or liquid resistant. · Ensure that the camera is not subjected to substantial vibrations, shocks or pressure. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, or ship, etc.

· The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F). · The liquid crystal display will become black at 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. 4 · 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. · Avoid contact with garbage, dirt, sand, dust, water, toxic gases, salt, etc. as this may cause damage to the camera. If rain or drops of water get onto the camera, please wipe dry.

· Refer to "Precautions When Using an SD Memory Card" (p.22) regarding the SD Memory Card. · Please note that the formatting of the SD Memory Card or built-in memory will delete all data, however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera's memory at your own risk. · The AC plug cord supplied with the camera is for exclusive use with the Battery charger D-BC8. Do not use it with any other equipment. · Please do not press forcefully on the LCD monitor. This could cause breakage or malfunction. · Be careful not to sit down with the camera in your back poc..

Contents 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.

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Use it if you want to start taking pictures straightaway. 2 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 "Taking Pictures", "Recording and Playback of Sound", "Playback/Deleting/Editing" and "Settings" chapters. 3 4 Taking Pictures This chapter explains the various way of capturing images and how to set the relevant functions, including how to use the Capture Mode screen to select the capture mode best suited to the situation. 4 5 Recording and Playback of Sound This chapter explains how to record sound only or add a voice memo to an image, and how to play back voice memos. 5 6 Playback/Deleting/Editing This chapter explains how to play back images on the camera or on a TV, how to delete, resize and crop images, and how to print images directly to the printer.

6 7 Settings This chapter explains how to set the camera-related functions. 7 8 Appendix This tells you about the messages displayed on the LCD monitor and what to do in the event of trouble. 8 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. 9 Quick Lessons in Mastering the Camera If you wish to master the camera soon after purchasing the ....

Go through all the basic operations from preparation, photo-taking and reviewing as shown below. (For the operating instructions, see the pages in parenthesis.) Check the package. (p.12) Prepare the camera.

Attach the strap. (p.15) Power the camera. Charge (p.17) and install the battery.

(p.16) Install the SD Memory Card. (p.21) Make the initial settings. (p.26-29) Let's get used to the basic operations. Turn the camera on and off. (p.36) Take still pictures. (p.

30-33) Play back and delete the pictures. (p.34-35) Switch between Capture mode and Playback mode. (p.50) Mastering the shutter release is the key to taking good pictures. This is the easiest way to take pictures. Let's take pictures in the Basic mode. (p.56-57) 10 Let's use the menus. Set menu items. (p.42-43) Select the recorded pixels and quality level for still pictures. (p.87-89) Just by selecting icons, you can activate desired modes for image capture or editing. Let's use the Mode Palettes.

Select icons on the Mode Palettes. (p.47-49) Let's select a mode for capturing images. Auto Picture Mode (p.58) Picture modes (p.

64-69) Let's use shooting functions. Self-timer (p.76) Zoom (p.80) Flash (p.85) Shake Reduction (p.54) For availability of functions for each Capture Mode, see p.182. Let's enjoy reviewing the pictures you took. Zoom display, nine-image display, and calendar display (p.117-122) Slideshow (p.

123) Once you get used to the basic operations, enjoy taking movies, editing pictures, or printing your favorite pictures. 11 Checking the Contents of the Package Camera Optio A30 Strap O-ST20 () Software (CD-ROM) S-SW66 AV cable I-AVC7 () USB cable I-USB7 () Rechargeable lithium-ion battery D-LI8 () Battery charger D-BC8 () AC plug cord D-CO2 () Operating Manual (this manual) Operating Manual (PC Connection Manual) Items marked with an asterisk () are also available as optional accessories. The Battery charger D-BC8 and the AC plug cord D-CO2 are not sold separately. They are available as the Battery charger kit K-BC8. For details on the optional accessories, refer to "Optional Accessories" (p.184). 12 Names of Parts Front Shutter release button Power switch, Power indicator (green) Shake Reduction preview button Flash Remote control receiver Strap lug Terminal cover DC input terminal PC/AV terminal Self-timer lamp/Auxiliary AF light Microphone Lens Back Access lamp Battery/card cover LCD monitor Tripod socket Speaker 13 Names of Operating Parts Shake Reduction preview button Power switch Zoom button Q Playback button Four-way controller OK/Display button Green/i button MENU button Four-way controller In this operating manual, the four-way controller is described as shown below. g Four-way controller (2) Four-way controller (5) Four-way controller (3) Four-way controller (4) b OK q MODE Button operation guide The button operation guide appears at the bottom of the LCD monitor 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) MENU button Shutter release button OK button 2 3 4 5 MENU Zoom button for cropping Green/i button for operating as the Green button for deleting an image SHUTTER OK 14 Getting Started Attaching the Strap 1 Getting Started Pass the narrow end of the strap through the strap lug and pass the other end through the loop.

15 Powering the Camera 1 Getting Started Battery 3 2 1 1 2 Battery lock lever Installing the Battery Install the battery provided with the camera. 1 2 3 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 the cover. Insert the battery with the 2 symbol facing toward the LCD monitor while using the side of the battery to press the battery lock lever in the direction indicated by the arrow.

Close the battery/card cover. Open the battery/card cover. Release the battery by using your finger to press the battery lock lever in the same direction as when you inserted the battery. The battery will be ejected. Pull the battery out of the camera.

If you intend to use the camera continuously for a long period, use of the AC adapter kit K-AC63 (optional) is recommended.

(1p.19) Removing the Battery · Insert the battery correctly. If the battery is incorrectly oriented, it may cause a malfunction. · Do not remove the battery when the camera is turned on. · If you do not intend to use the camera for a long time, remove the battery. · If the camera is left without the battery for a long time, the date will be reset. 16 3 To power outlet Charging indicator While charging: Lights red Charging finished: Lights green 2 1 Getting Started Battery charger AC plug cord 1 Charging the Battery Use the battery charger to charge the battery before installing it in the camera for the first time or after a long period of non-use, or when the message [Battery depleted] 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-BC8.

Plug the AC plug cord into the power outlet. Place the battery in the charger so that the PENTAX logo is visible. The charging indicator lights red while the battery is charging. It lights green 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 100 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 if it runs down soon after being charged.

Replace with a new battery. · Do not use the battery charger D-BC8 to charge batteries other than D-LI8 rechargeable lithium-ion batteries, 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 it with a new battery. 17 1 Getting Started 18 · Approximate Operating Time (when the D-LI8 battery is fully charged) Number of recordable images : Approx. 150 (at 23°C with the LCD monitor on and the flash used for 50% of shots)*1 Playback time : Approx. 110 min.*2 Movie recording time : Approx. 55 min.*2 Sound recording time : Approx. 120 min.*2 1 The number of recordable images are based on CIPA standard * measurement and may vary depending on capture mode and shooting conditions. *2 Measured based on PENTAX standard and may vary depending on the condition of use. · In general, battery performance temporarily deteriorates as the temperature decreases. When using the camera in a cold environment, keep it warm by putting it in your pocket or inside your coat. Battery performance that has deteriorated due to low temperature will be restored when the battery is returned to room temperature. · 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 (lit green) : Adequate power remains. symbol on the LCD monitor. (lit green) : Battery is running low.

(lit yellow) : Battery is running very low. (lit red) : Battery is exhausted. [Battery depleted] : The camera will turn off after the message appears. 4 To power outlet 1 AC plug cord 1 Getting Started AC adapter 2 4 marks 3 Using the AC Adapter (optional) If you intend to use the LCD monitor for a long time or connect the camera to a PC, use of the AC adapter kit K-AC63 (optional) is recommended. 1 2 3 4 Make sure that the camera is turned off and open the terminal cover. Connect the DC terminal on the AC adapter to the DC input terminal on the camera, being sure to match the 4 marks. 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 when connecting or disconnecting the AC adapter. · Make sure that the AC plug cord and connecting cable are inserted securely.

The data may be lost if the cable becomes disconnected while you are taking pictures. · Be sure to read the operating manual accompanying the AC adapter before using the adapter. · Be sure to match the 4 marks when connecting the DC terminals. Inserting the plugs with too much force may damage them. 19 Precautions When Using the Battery Charger or AC Adapter To avoid the risk of fire or electric shock when using the battery charger or AC adapter, be sure to read the section on "Using your camera safely" on page 1.

Refer to page 191 for the specifications of the battery charger and AC adapter. 1 Getting Started 20 Installing the SD Memory Card SD Memory Card 1 2 1 2 3 To remove the card, push in and pull out 1 Getting Started You can use an SD Memory Card with this camera. Images are recorded on the SD Memory Card or in the built-in memory of the camera. When shooting with an SD Memory Card installed ? appears in the upper right corner of the LCD monitor and the images are recorded on the card. When shooting with no SD Memory Card installed @ appears in the upper right corner of the LCD monitor and the images are recorded in the built-in memory.

· Make sure that the camera is turned off before inserting or removing the SD Memory Card. · Be sure to format unused cards or cards that have been used in another camera. Refer to "Formatting an SD Memory Card or the Built-in Memory" (p.162) for instructions on formatting. 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 the cover. Insert an SD Memory Card so the label (the side with the 2 symbol) is facing toward the LCD monitor and push the card in until it clicks. Close the battery/card cover. To remove the card, eject the card by pressing it in the direction indicated by the arrow and pull it out.

· The number of recordable images varies depending on the capacity of the SD Memory Card or built-in memory and the selected image size and quality. (1p.23) · If you store your favorite images and sounds in the built-in memory, you can play them back whenever you wish (My album function). (1p.118) 21 Data Backup Very occasionally, data stored in the built-in memory becomes unreadable. As a backup measure, we recommend that you download important data to a PC or store the data in a medium other than the built-in memory. 1 Getting Started 22 Precautions When Using an SD Memory Card · Make sure that the camera is turned off before opening the battery/card cover. · The SD Memory Card is equipped with a write-protect switch. 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. · Care should be taken if you remove the SD Memory Card immediately after using the camera, as the card may be hot.

· Do not remove the SD Memory Card or turn the camera off while data is being recorded on the card, images or sound are being played back, or the camera is connected to a PC 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. · Be sure to format unused cards or cards that have been used in another camera. Refer to "Formatting an SD Memory Card or the Built-in Memory" (p.

162) for instructions on formatting. · 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. PENTAX does 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, the AC adapter is disconnected or the battery is removed while the data on the card is being recorded or accessed. · The SD Memory Card has a limited service life. 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 PC. · 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. · Before purchasing a SD Memory Card, please check the PENTAX website to ensure that it is compatible with your camera. You can also contact the nearest PENTAX service center for this information.

· 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. 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. In any case, the data on your SD Memory Card should be managed at your own risk. Image Size and Quality of Still Pictures Select the image size and quality best suited to your purpose. Higher quality levels and numbers of recorded pixels produce clearer images for printing, but the resulting increase in file size reduces the total number of pictures that can be taken. When you select high image quality as well as a large image size, it may take ten seconds or more for the camera to finish recording after shooting. Select the appropriate number of recorded pixels and quality level on the [A Rec. Mode] menu. How to Set the Menus 1p.

42 Selecting the Recorded Pixels of Still Pictures 1p.87 Selecting the Quality Level of Still Pictures 1p.89 1 Getting Started Appropriate Sizes According to Use 10M (3648×2736) 7M (3072×2304) 3M (2048×1536) 2M (1600×1200) 1024 (1024×768)0 640 (640×480) The default setting is 10M (3648×2736). Clear, Fine 5M (2592×1944) For printing images with high-resolution settings in your printer, printing at A4 size or larger, or editing and processing images For printing at postcard size For using as images on websites, or attaching images to e-mails Appropriate Quality According to Use C D E Best Better Good Lowest compression ratio. Suitable for large A4-size photo prints.

Standard compression ratio. Suitable for photo prints or viewing images on a computer screen. Highest compression ratio. Suitable for attaching to e-mails or creating websites. The default setting is D.

23 Approximate Number of Recordable Images by Size and Quality Quality Level Recorded Pixels C Best 75 107 151 229 321 584 1072 D Better 109 155 218 331 464 845 1550 E Good 152 215 303 459 643 1170 2146 Sound 1 Getting Started 24 10M (3648×2736) 7M (3072×2304) 5M (2592×1944) 3M (2048×1536) 2M (1600×1200) 1024 (1024×768) 640 (640×480) 4 hr. 25 min. 59 sec. · The table above indicates the approximate number of images and recording time when using a 256MB SD Memory Card. · The table above is based on standard shooting conditions specified by PENTAX and may vary depending on the subject, shooting conditions, capture mode, SD Memory Card, etc. Size and Quality of Movies Select the size and quality best suited to your purpose. The larger size and the higher quality level E are selected, the clearer moving images are produced, but the file size is increased. Select the appropriate size and quality on the [A Rec. Mode] menu. Selecting the Recorded Pixels of Movies 1p.

99 Selecting the Quality Level of Movies 1p.100 Appropriate Sizes (Recorded Pixels) According to Use 640 (640×480) 320 (320×240) Viewing high-quality movies at VGA size. The recordable time is shorter. Smaller file size allows a longer time recording. The default setting is 640 (640×480). Approximate Recordable Time by Size (Recorded Pixels) and Quality Quality Level Recorded Pixels 640 (640×480) 320 (320×240) C Best 11 min. 51 sec. 45 min. 50 sec. D Better 14 min.

50 sec. 56 min. 56 sec. E Good 17 min. 49 sec.

65 min. 39 sec. 1 Getting Started The default setting is C. · The table above indicates the approximate recording times when using a 256 MB SD Memory Card. · The table above is based on standard shooting conditions specified by PENTAX and may vary depending on the subject, shooting conditions, capture mode, SD Memory Card, etc.

25 Initial Settings (Setting the Display Language and the Date and Time) 1 Getting Started Power switch Four-way controller OK button If the Initial Setting screen or Date Adjust screen appears when you turn the camera on, follow the procedure below to set the display language and/or current date and time. If the Initial Setting screen appears: 1p.26 - 27 "Setting the Display Language", "Setting the Date and Time" If the Date Adjust screen appears: 1p.27 - 28 "Setting the Date and Time" If you want to change the initial settings, refer to "Changing the Date and Time" (p.166) and "Changing the Display Language" (p.170). Setting the Display Language You can select the language in which the menus and error messages are displayed from the following: [English], [French], [German], [Spanish], [Portuguese], [Italian], [Dutch], [Danish], [Swedish], [Finnish], [Polish], [Czech], [Hungarian], [Turkish], [Russian], [Thai], [Korean], [Chinese (traditional and simplified)] and [Japanese].

1 2 26 Press the four-way controller (5). The Language/ screen appears. Initial Setting English Hometown New York Video Out MENU Use the four-way controller (2345) to select a language.

The default setting is English. 0:00 DST OFF NTSC OK Cancel OK 3 4 5 6 7 8 Press the OK button. Press the four-way controller (3). The frame moves to [W]. Use the four-way controller (45) to select the desired city (Hometown). Press the four-way controller (3). The frame moves to [DST] (Daylight Saving Time). 1 Getting Started Use the four-way controller (45) to select [O (On) / P (Off)]. Press the OK button. The Date Adjust screen appears.

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]. Date Adjust Date Style Date Time MENU Cancel Use the four-way controller (23) to select the date display style. mm/dd/yy 24h 01/01/2007 0:00 OK OK 3 4 5 Press the four-way controller (5).

The frame moves to [24h]. 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 01/01/2007 0:00 OK OK 27 6 1 Getting Started 28 Press the four-way controller (3).

The frame moves to [Date]. Date Adjust Date Style Date Time MENU Cancel mm/dd/yy 24h 01/01/2007 0:00 OK OK 7 8 Press the four-way controller (5). The frame moves to the month. Date Adjust Date Style Date Time mm/dd/yy 24h 01/01/2007 0:00 Use the four-way controller (23) to change the month. Change the day and year in the same MENU Cancel OK OK manner. Next, change the time. If you have selected [12h] in Step 4, the setting switches between am and pm corresponding to the time. · When you finish the settings and press the OK button, the camera clock is reset to 00 seconds. · To set the exact time, press the OK button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

· You can cancel the settings for the Initial Setting by pressing the MENU button. If you take pictures without completing the Initial Setting, the Initial Setting screen will appear next time you turn on the camera. · You can change your settings for the Initial Setting later using the [H Set-up] menu. Language: "Changing the Display Language" (p.170) City, Daylight saving time: "Setting the World Time" (p.168) Date and Time: "Changing the Date and Time" (p.166) · The video output format is automatically set according to the language you have selected. If the output format is different from the one used in your country or region, change the format following the procedures described in "Changing the Video Output Format" (p.173). Language Video Output Format 1 Getting Started English (English) French (Spanish (Portuguese (Italian (Italiano) Netherlands (Nederlands) Danish (Dansk) Swedish (Svenska) Finnish (Finnish) Polish (Polish) Czech (Czech) Hungarian (Hungarian) Turkish (Russian (Thai (Korean ( )))))))))) German (Deutsch) NTSC PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL PAL NTSC PAL PAL NTSC Chinese (traditional) (Chinese (simplified) (Japanese 29 Quick Start Taking Still Pictures Shake Reduction preview button Power switch Shutter release button 2 Zoom button OK/Display button Green button 30 Quick Start The simplest procedure for taking still pictures is described below.

The flash discharges automatically depending on the light conditions. 1 2 Press the power switch. The camera turns on. Compose the picture on the LCD monitor. The camera AF will focus on the area within the focus frame.

Press the zoom button to change the size of the subject. Zoom button(x) : Enlarges the subject. Zoom button (w) : Diminishes the subject. 36 01/26/2007 12:00 3 Focus frame Press the shutter release button halfway. The focus frame on the LCD monitor will light green when the camera is in focus.

When [Shake Reduction] is set to [O On], (Shake Reduction On) appears on the LCD monitor. To take the picture compensating for camera shake, go to step 4 after is displayed. 4 Press the shutter release button fully. The picture is taken. The image appears on the LCD monitor for 0.5 seconds (Instant Review). The image is recorded on the SD Memory Card installed in the camera, or in the built-in memory of the camera. Pressing the shutter release button Press the shutter release button slowly in two steps. This allows for exact focusing as well as preventing camera shake. Basic way of shutter release 1 2 Press the shutter release button halfway.

Lightly press the shutter release button until you feel the click on your finger. 2 Quick Start Confirm the focus frame on the LCD monitor turns green. Hold the shutter release button and wait until the focus frame turns green. The camera is in focus. The camera is in focus. 3 Press the shutter release button fully. Press it down slowly until the shutter is released. The picture is taken. You can press the shutter release button all the way down (single step) if the camera is in the following status: · Either Green Mode or Auto Picture mode is selected. · Focus mode is set to Standard (Autofocus).

· Drive mode is set to Standard or Continuous Shooting. This allows you to release the shutter at the right moment. The pictures are taken as deep-focus (pan focus) shots. 31 Focus lock When you have difficulty in auto focusing on a subject, try the procedures below. You may have difficulty in auto focusing on such subjects as: · Subject contrast is very week.

(blue sky, solid white wall, etc.) · Dark places, black object, or subject that does not reflect light. · Subject with strong reflected light, or strong backlight. · Object with a fine pattern · Rapidly moving objects · When a distant object and a close object are both in the focus frame. 2 Quick Start 32 1 2 3 4 5 Find alternate subject that is in the same distance from the camera as the desired subject.

Focus on the alternate subject. Locate it in the focus frame on the LCD monitor. Press the shutter release button halfway. The focus frame turns green when the camera is in focus. While holding the shutter release button halfway, move the camera to obtain the desired composition. The focus is locked at the point you set in step 3 even if you recompose. (Focus lock) Press the shutter release button fully. Instant Review By default, the image is displayed on the LCD monitor for 0.5 seconds right after shooting (Instant Review). You can change the display time for the Instant Review.

(1p.103) If you set it longer, you can delete the image while it is displayed on the LCD monitor. 1 2 Press the Green/i button while the image is displayed.

The screen for deleting the image appears. 2 Quick Start Press the four-way controller (2) to select [Delete] and press the OK button. The image displayed on the LCD monitor is deleted. Brightening the LCD Backlight You can temporalily brighten the LCD backlight to improve viewing. (LCD Bright Mode) It is useful when you view the LCD monitor outdoors or in brighter places. 1 In Capture mode, press and hold the OK/Display button for more than 1 second. The LCD monitor turns brighter for a certain amount of time.

You can cancel the function by doing either of the followings. - Switch the display mode to LCD Backlight Off. (1 p.51) - Turn off the camera. 33 Quick Start Playing Back Still Pictures 2 Quick Start Playback button Four-way controller OK/Display button Green button Playing Back an Image You can display the still picture you have just taken.

1 Press the Q Playback button after taking a picture. The image appears on the LCD monitor. When you press and hold the OK/Display button for more than 1 second, the LCD Bright Mode is activated. The LCD monitor turns brighter for a certain amount of time. Zoom Display 1p.

117 100-0010 01/26/2007 12:00 Playing Back the Previous or Next Image Still pictures can be played back one at a time, proceeding either forward or backward. 1 2 Press the Q Playback button after taking a picture. The image appears on the LCD monitor. Press the four-way controller (45). Four-way controller (4): Displays the previous image. Four-way controller (5): Displays the next image. 34 Deleting the Displayed Image 1 2 Press the Green/i button when playing back an image. The screen for deleting the image appears. File No. 100-0010 Press the four-way controller (2) to select [Delete] and press the OK button.

The image displayed on the LCD monitor is deleted. All Delete Cancel OK 2 Quick Start OK 3 Press the Q Playback button again or press the shutter release button halfway. The camera is ready for taking pictures. · The last picture taken appears on the LCD monitor when you switch to the Playback mode. · You can enlarge the image displayed on the LCD monitor by pressing the zoom button. (If you press the zoom button to enlarge a rotated image, the enlarged image will return to its original position. If you stop enlarging the image, the image will be rotated again.) · If there is no image stored, the message [No image/sound] appears. Zoom Display 1p.117 Deleting a Single Image, Movie or Sound 1p.

125 35 Common Operations Turning the Camera On and Off Power switch, Power indicator Playback button 3 Common Operations 36 Turning the Camera On in Capture Mode 1 Press the power switch. The power indicator lights up in green. The lens extends and the camera turns on in the "Capture mode". The camera is ready for taking pictures by pressing the shutter release button. You can switch to other modes by pressing the Q Playback button.

· Press the Q Playback button once to switch to the "Playback mode" . (The lens is not retracted.) · Press and hold the Q Playback button for 2 seconds to switch to the "Playback mode" . (The lens is retracted.) · Press and hold the Q Playback button for more than 4 seconds to show the images stored in the built-in memory with the SD memory card installed.

2 Press the power switch again. The camera turns off with the lens retracted. If you press and hold the power switch for a while, the camera will be turned off. Switching between Capture Mode and Playback Mode 1p.50 Turning the Camera On in Playback Mode 1 Press the power switch while pressing the Q Playback button. The power indicator lights green and the camera turns on in the "Playback mode" with the lens retracted. To switch to the "Capture mode", press the Q Playback button again. Playing Back Still Pictures 1p.34 3 Common Operations 37 Using the Button Functions 1 2 3 4 3 Common Operations 38 5 6 7 Capture Mode 1 Shake Reduction preview button Displays the compensated image on the LCD monitor while you are pressing the button. It allows you to preview the compensated image before shooting.

(1p.54) 2 3 4 w/x Zoom button Changes the size of the subject. (1p.30, p.80) Q Playback button Switches to the Playback mode. When pressed again, returns to Capture mode. (1p.34) Four-way controller (2345) (q5) Changes the focus mode. (1p.82) (g2) Changes the drive mode.

(1p.76 to p.79) (X 3) Displays the Capture Mode Palette. (1p.47) Changes the flash mode.

(1p.85) (b4) 5 OK/Display button Changes the information displayed on the LCD monitor. (1p.50) When you press and hold the button for more than 1 second, the LCD Bright Mode is activated. The LCD monitor turns brighter for a certain amount of time.

(1p.33) 6 Green/i button Enters Green Mode. (1p.56) You can assign a different function to the Green button by selecting [Green Button] in the [A Rec.Mode] menu. (1p.104) 7 MENU button Displays the [A Rec.Mode] menus. (1p.42) 1 2 3 4 5 6 3 Common Operations Playback Mode 1 w/x Zoom button Press w/f in single-image display to switch to nine-image display.

Press x/y to return to the previous display. (1p.121) Press x/y to enlarge the image in single-image display. Press w/f to return to the previous display. (1p.117) Press w/f in nine-image display to switch to the calendar display. (1p.121) 2 Q Playback button Switches to Capture mode. When switched to the Playback mode by pressing the Q Playback button in Voice Recording mode, pressing the Q Playback button again switches to the Voice Recording mode. 3 Four-way controller (2345) For playing back still images : Displays the previous or next image in single-image display.

(1p.34) When rotating the displayed image, the image is rotated 90 degrees clockwise each time you press the (5), and 90 degrees counter clockwise each time you press the (4). (1p.144) (3) : Displays the Playback Mode Palette. (1p.

49) (2345) : Moves the display area of the enlarged image. (1p.117) Selects an image in nine-image display. (1p.121) Selects a date in calendar display. (1p.121) (45) For playing back movies (2) : Plays back and pauses a movie. (1p.119) (45) : Frame forwards, frame reverses, fast forwards and reverses a movie during playback. (1p.119) (3) : Stops a movie during playback. (1p.119) 39 For playing back voice recording files (1p.114) (2) : Starts playback. When pressed again, pauses playback.

(45) : Selects a recorded file before playback. Performs the following operations during playback. Files with no recorded indexes: (4) Rewinds five seconds. (5) Advances five seconds. Files with recorded indexes: (4) Starts playback from the previous index. (5) Starts playback from the next index. 3 Common Operations 40 4 OK/Display button Changes the information displayed on the LCD monitor. (1p.120) When you press and hold the button for more than 1 second, the LCD Bright Mode is activated.

The LCD monitor turns brighter for a certain amount of time.
(1p.34) Returns to a single-image display in nine-image display. (1p.121) Displays the selected image full screen in calendar display. (1p.
121) 5 6 Green/i button Deletes the image displayed on the LCD monitor. (1p.125) MENU button Displays the [A Rec.Mode] menus. (1p.
42) 1 2 3 4 3 Common Operations Voice Recording Mode 1 Shutter release button When pressed, starts recording. When pressed again, stops recording.
When pressed for more than one second, recording continues for as long as the button is held down and stops when the button is released. 2 3 4 Q Playback
button Switches to Playback mode. (1p.37) When pressed again, returns to Voice Recording mode. OK/Display button Turns the LCD monitor on and off.
MENU button When pressed during recording, an index can be added. When pressed during standby or before playback, displays the [A Rec.Mode] menu.

(1p.42) 41 Setting the Menus Press the MENU button to display the menu on the LCD monitor. There are two different menus, [A Rec.Mode] menu and [H Set-
up] menu. How to Set the Menus 3 Common Operations 42 The button operation guide appears at the bottom of the LCD monitor while you are making
settings for the menus. 1 2 3 4 5 Press the MENU button. The [A Rec.Mode] menu appears. The selected area is highlighted. Press the four-way controller
(45).
Each press switches between [A Rec.Mode] menu and [H Set-up] menu. Use the four-way controller (23) to select an item. Moves the highlight up or down.
Press the four-way controller (5).
A pull-down menu or setting screen appears. The pull-down menu displays only those items that can be selected for the current camera settings. Use the four-
way controller (23) to change the setting. The setting changes each time the four-way controller (23) is pressed. To Save the Setting and Start Taking Pictures
6 Press the shutter release button halfway.
The setting is saved and the camera enters the "Capture mode". When the shutter release button is pressed fully, the picture is taken. To Save the Setting and
Begin Playback of Images 6 Press the Q Playback button. The setting is saved and the camera enters the "Playback mode". To Save the Setting and Continue
with Menu Operations 6 Press the OK button or the four-way controller (4). The setting is saved and the screen returns to Step 3. To Cancel the Changes and
Continue with Menu Operations 3 Common Operations 6 Press the MENU button. The changes are canceled and the screen returns to Step 3. The MENU
button functions differ depending on the screen activated at the time. See the button operation guide displayed at the bottom of the LCD monitor.

MENU Exit : Saves the current setting, exit the operation and return to the original screen (Capture or Playback mode). : Saves the current setting and return
to Step 1. MENU MENU Cancel: Cancels the current selection, exit the operation and return to Step 3. · If you press the MENU button with the pull-down
menu displayed, the setting is cancelled. · If you press the OK button, the MENU button or the four-way controller (4) with the pull-down menu displayed, the
menu returns to the screen used for selecting an item. · The menu is exited automatically one minute after the last operation. 43 Example of Menu Operation 1
MENU button [A Rec.Mode] Menu Rec. Mode Recorded Pixels 10M Quality Level White Balance AWB AF Setting AE Metering Sensitivity AUTO 800 2 OK
[H Set-up] Menu Set-up Format Sound Date Adjust World Time Language/ Folder Name English Standard 3 Common Operations 44 MENU Exit OK MENU
Exit 3 OK OK Rec. Mode Recorded Pixels 10M Quality Level White Balance AWB AF Setting AE Metering AUTO 800 Sensitivity MENU Exit 3 OK OK 4 OK
Rec.
Mode Recorded Pixels 10M Quality Level White Balance AWB AF Setting AE Metering AUTO 800 Sensitivity MENU Rec. Mode Recorded Pixels 10M
Quality Level White Balance AWB AF Setting AE Metering Auto Sensitivity Exit OK MENU Cancel OK OK 3 OK OK 4' Select Screen OK Rec. Mode EV
Compensation ±0.0 Movie Shake Reduction Digital Zoom Instant Review 0.5sec 0.
5 Memory MENU Memory Flash Mode Drive Mode Focus Mode Zoom Position MF Position White Balance MENU OK Exit Cancel OK OK 3 OK OK To the
next screen Menu List [A Rec.Mode] Menu Item Recorded Pixels Quality Level White Balance Focusing Area Focus Limiter Aux. AF Light AF Setting Movie
Description For selecting the number of pixels For selecting the image compression ratio For adjusting the color balance according to lighting For changing
the area of the autofocus For limiting the focusing range of the lens in accordance with the shooting conditions For focusing with auxiliary AF light when the
subject is dim and the autofocus does not function properly For setting the metering method to determine the exposure For setting the sensitivity For adjusting
the exposure between 2.0EV and +2.0EV For selecting the recorded pixels of the movie For selecting the quality level of the movie For compensating for
camera shake of the movie automatically For reducing camera shake while taking still pictures For taking digital zoom pictures For setting the Instant
Review time For saving the shooting function settings when the camera is turned off For registering a function on the Green button For setting the sharpness
For setting the saturation For setting the contrast Page p.
87 p.89 p.90 p.92 p.93 p.94 p.95 p.96 p.98 p.99 p.

100 p.101 p.102 p.80 p.103 p.110 p.104 p.107 p.108 p.109 3 Common Operations AE Metering Sensitivity EV Compensation Recorded Pixels Quality Level
Movie SR Shake Reduction Digital Zoom Instant Review Memory Green Button Sharpness Saturation Contrast 45 [H Set-up] Menu Item Format Sound Date
Adjust World Time Language/ Folder Name Description For formatting the SD Memory Card or built-in memory For adjusting the operation sound volume
and the playback volume and setting the type and volume of start-up sound, shutter sound, key operation sound, self-timer sound.
For adjusting the date, time, and display style For setting the world time For changing the language in which menus and messages appear For selecting the
way of naming image folders For changing the USB connection mode For setting the video output format For changing the brightness of the LCD monitor
For setting the Power Saving function For displaying the image at specified magnification by pressing the zoom button once For turning off the power
automatically For showing the mode selected on the screen in Capture mode, the status of the four-way controller, and assignment of the Green button. For
showing the description for the selected item on the Mode Palette. For returning the camera settings to defaults Page p.162 p.163 p.
166 p.168 p.170 p.171 p.172 p.
173 p.174 p.175 p.118 p.

176 p.176 p.177 3 Common Operations 46 USB Connection Video Out Brightness Level Power Saving Quick Zoom Auto Power Off Guide Display Reset Operating the Mode Palette Press the four-way controller (3) to display the Mode Palette on the LCD monitor. There are two different Mode Palettes, the "Capture Mode Palette" and the "Playback Mode Palette." You can activate the Capture mode most appropriate for the shooting conditions or edit the taken images just by selecting the icons. How to operate the Mode Palette The button operation guide appears at the bottom of the LCD monitor while you are using the Mode Palette.

3 Common Operations 1 2 3 Press the four-way controller (3). In Capture mode, the "Capture Mode Palette" appears. In Playback mode, the "Playback Mode Palette" appears. Use the four-way controller (2345) to select an icon. Press the OK button. The screen for the selected mode appears. Mode Palette List Capture Mode Palette Auto Picture MENU Cancel OK OK Icon Item Auto Picture mode Description Selects the best capture mode. Page p.58 R Program mode Shutter Priority mode Manual Exposure mode Lets you take clear pictures at the appropriate shutter speed and exposure. Automatically sets the required aperture p.

60 value when a shutter speed is manually selected. Allows you to set shutter speed and aperture value manually. 47 Icon Item Night Scene mode Movie mode Voice Recording mode Landscape mode Flower mode Portrait mode Description Page A C Lets you take dark scenes such as night views. p.70 Lets you take movies and sounds.

Records audio, such as voices. Lets you capture the natural colors of landscape views. Lets you take brightly colored flower pictures. Lets you take portraits with spatial effect, by emphasizing the person. Ideal for taking pictures of moving children.

Also gives them a healthy look. Lets you take pictures against dazzling backgrounds like beaches or snow-covered mountains. Lets you take clear pictures of moving subjects with a high shutter speed to prevent motion blur. Lets you take clear pictures of pets to fit the hair color. Lets you take clear pictures of text or writing. Also lets you turn colored text black/white or reverse color. Lets you take appetizing pictures of prepared food. Lets you set the sensitivity higher to reduce camera shake and blurring. p.72 p.

112 p.64 O q < 3 Common Operations 48 Picture mode p.66 Kids mode L Surf & Snow mode p.64 Sport mode Pet mode Text mode E p.68 p.69 p.64 p.71 K Y Food mode Digital SR mode Frame Composite mode Lets you take pictures with a decorative frame. p.74 · When you select an icon on the Mode Palette, waiting for about 3 seconds, the description for the selected mode appears.

· For / and / / , the currently selected mode icons are displayed on the Mode Palette. If you change the selection, the newly selected icons replace the previous ones. Playback Mode Palette Slideshow MENU Cancel OK OK Icon Item Slideshow Resize Cropping Description For playing recorded images successively For changing the size and quality level of images For cropping images and saving them as separate images Page p.123 p.141 p.

143 p.158 3 Common Operations Image/ For copying files from the built-in memory to the SD Sound Copy Memory Card and vice versa s Image Rotation Color Filter For displaying rotated still pictures For processing images using the color filter p.144 p.145 p.147 p.

149 p.151 p.154 p.115 p.130 p.134 p.160 p.156 For applying special effects such as the illustration effect Digital Filter or the slim effect to still pictures according to your taste & Z Z Brightness Filter Movie Edit For adjusting the brightness of images using a filter For editing movies Red-eye For retouching red-eyes, a phenomenon that can Compensation happen when shooting with a flash Voice Memo For adding a voice memo to an image Protect DPOF Start-up Screen For protecting images and sounds to avoid accidental erasure For printing images from a DPOF compatible printer or at a printing service For setting the Start-up screen For adding a decorative frame to a still picture Y Frame Composite When you select an icon on the Mode Palette, waiting for about 3 seconds, the description for the selected mode appears. 49 Taking Pictures Taking Pictures Changing the Mode In the "Capture mode", you can take pictures. In the "Playback mode", you can play back or delete pictures.

Switching between Capture Mode and Playback Mode To switch from the "Capture mode" to the "Playback mode" Press the Q Playback button. To switch from the "Playback mode" to the "Capture mode" Press the Q Playback button or press the shutter release button halfway. 4 Taking Pictures 50 Selecting the Capture Mode Display the "Capture Mode Palette" and select the icon for a desired mode. (1p.47) Displaying Shooting Information in Capture Mode In the Capture mode, press the OK/Display button to switch the "display modes". There are 5 display modes for the Capture mode. Normal Display 1 2 3 4567 89 Shooting information is displayed when the power is turned on. 36 1 Capture mode 2 Flash mode 3 Drive mode 4 Focus mode 5 Focus frame 6 Digital zoom 7 Card/Built-in memory 8 Battery indicator 01/26/2007 1/160 F2.6 12:00 9 Remaining number of recordable images 10 Date and time 11 World time setting 14 13 12 11 10 12 Shake Reduction On* 13 Aperture 14 Shutter speed * The information on Shake Reduction is displayed as follows. (Shake Reduction On) : Appears when you press the shutter release button halfway with [Shake Reduction] set to [On].

l (Shake Reduction Off): Always displayed when [Shake Reduction] is set to [Off]. (Anti-shake warning) : Appears when camera shake may occur due to slower shutter speed. Histogram Display 1 23 The brightness distribution of the image is displayed. The horizontal axis shows the 36 brightness (darkest at the left end and 10M brightest at the right end) and the vertical axis shows the number of pixels. AWB 1 Recorded Pixels 2 Quality Level ISO AUTO 1/160 3 White Balance 4 AE Metering F2.

6 5 Sensitivity 6 Histogram 6 54 Grid Display The grids divide the screen into nine parts. These grids will help you to improve composition. 4 Taking Pictures No icons No shooting information is displayed. · The focus frame appears in Autofocus mode. · If any of the settings are changed, the icon of the setting appears for a few seconds.

LCD Backlight Off The LCD monitor is turned off. Saving the Display Mode 1p.110 51 · If you press and hold the OK/Display button for more than 1 second, the LCD Bright Mode is activated. The LCD monitor turns brighter for a certain amount of time. (1p.33) · Under shooting conditions where camera shake is likely to occur, (Anti-shake warning) will be displayed.