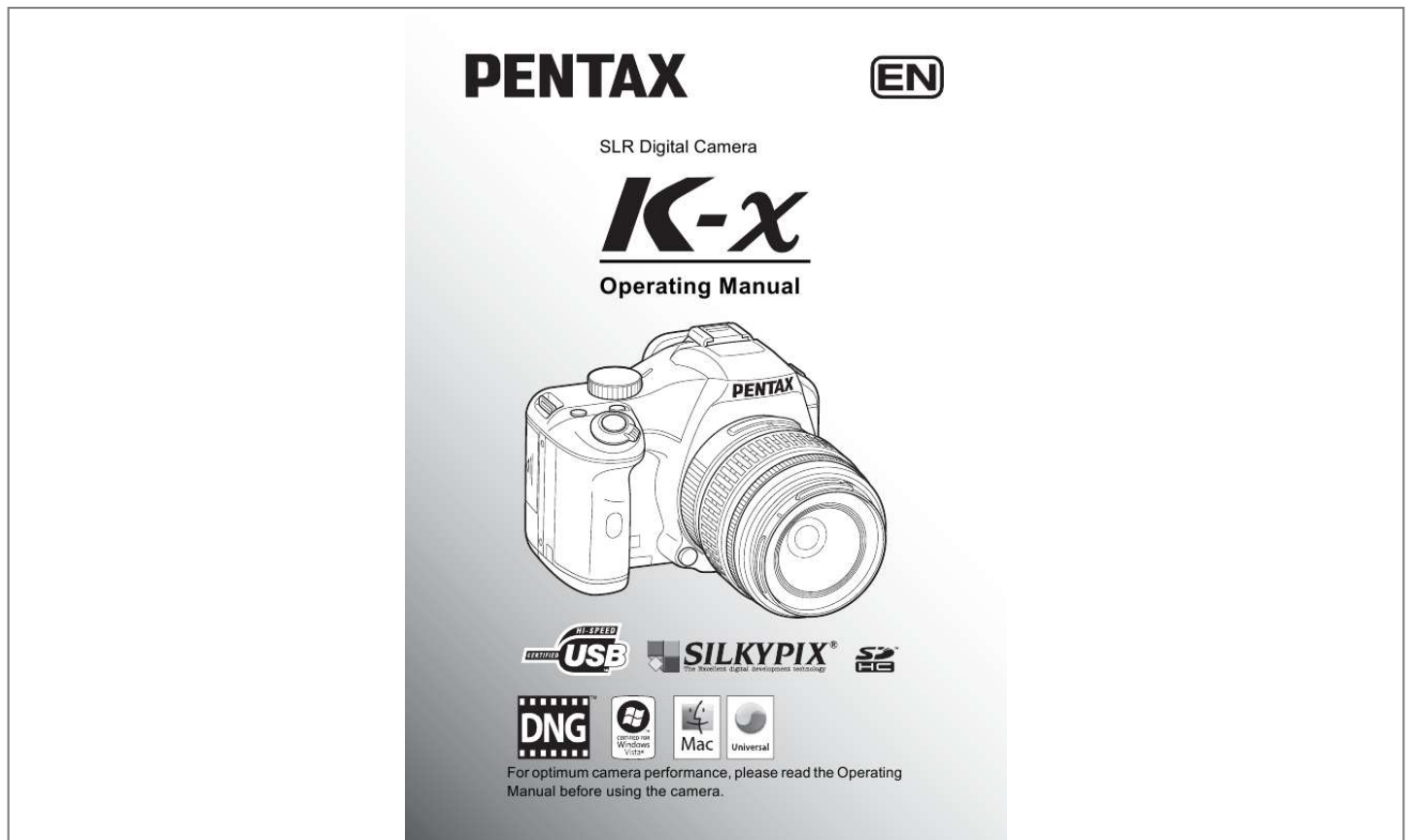




# Your PDF Guides

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

User manual PENTAX K-X BLACK K-X  
User guide PENTAX K-X BLACK K-X  
Operating instructions PENTAX K-X BLACK K-X  
Instructions for use PENTAX K-X BLACK K-X  
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**Manual abstract:**

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The DNG logo is either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. All other brands or product names are trademarks or registered trademarks of their respective companies. This product supports PRINT Image Matching III. PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce image 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. To users of this camera · Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields.

Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage the stored data, or affect the product's internal circuitry and cause camera misoperation. · The liquid crystal panel used in the monitor 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 of the monitor in this manual are different from the actual product. 1 For 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 Caution This symbol indicates that violating this item could cause serious personal injuries.

This symbol indicates that violating this item could cause minor or medium personal injuries, or loss of property. About the Camera Warning · Do not disassemble or modify the camera. High voltage areas are present inside the camera, with the risk of electric shock. · If the camera interior is exposed due to dropping or otherwise damaging the camera, never touch the exposed portion. There is a risk of electric shock. · Wrapping the strap around your neck is dangerous. Take care that small children do not hang the strap around their necks. · Do not look directly at the sun through the camera with a telephoto lens attached, as viewing the sun may damage your eyes. Viewing the sun directly with a telephoto lens may lead to a loss of eyesight. · If any irregularities occur during use, such as smoke or a strange odor, stop use immediately, remove the batteries or the AC adapter, and contact your nearest PENTAX Service Center. Continuing to use the product can cause a fire or electric shock. · Do not place your finger over the flash when discharging the flash. You may burn yourself. ·

Do not cover the flash with clothing when discharging the flash. Discoloration may occur.

2 · Some portions of the camera heat up during use. There is a risk of low temperature burns when holding such portions for long periods. · Should the monitor 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. · Depending on your individual 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 Battery Usage Warning · If any leakage from the batteries should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately. Caution · This camera uses four AA alkaline, AA lithium or AA Ni-MH batteries. Do not use batteries other than those specified here. Using other types of batteries may cause the camera to function poorly, or the batteries may explode or cause a fire. · AA alkaline and AA lithium batteries cannot be recharged. Do not disassemble the batteries.

Attempting to charge non-rechargeable batteries or disassembling the batteries could result in explosion or leakage. · The batteries should be inserted correctly, observing (+) and (-) marks on the batteries and the camera.

Inserting the batteries incorrectly may cause an explosion or fire. · When replacing the batteries, do not combine different brands, types or capacities. Also, do not combine old batteries with new ones. Doing so may cause the batteries to explode or cause a fire. · Do not short the batteries or dispose of the batteries in fire. Do not disassemble the batteries. The batteries could explode or catch fire. · Do not charge any batteries other than rechargeable Ni-MH batteries.

The batteries could explode or catch fire. Batteries for use with this camera other than Ni-MH batteries cannot be charged.

· If any leakage from the batteries should come in contact with skin or clothes, it may cause irritation to the skin. Wash the affected areas thoroughly with water. · Remove the batteries from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal. About the SD Memory Card Warning · To avoid the risk of SD Memory Cards from being swallowed by mistake, keep them out of the reach of small children.

Seek medical attention immediately if an SD Memory Card is accidentally swallowed. 3 About the AC Adapter Warning · Always use the AC adapter exclusively developed for this product, with the specified power and voltage. Using an AC adapter not exclusive to this product, or using the exclusive AC adapter with an unspecified power or voltage can cause a fire, electric shock, or camera breakdown. Caution · Do not place or drop heavy objects on or forcefully bend the AC plug cord. Doing so may damage the cord.

Should the AC plug cord be damaged, consult a PENTAX Service Center. · Do not touch or short-circuit the terminal area of the AC plug cord while the cord is plugged in.



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· Do not plug or unplug the power cord with wet hands. This can cause an electric shock. · Do not drop the product, or subject it to violent impact. This can cause equipment breakdown. · To reduce the risk of hazards, use only a CSA/UL certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent. Care to be Taken During Handling Before Using Your Camera · When traveling, take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad.

· When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or 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. Precautions on Carrying and Using Your Camera · Do not subject the camera to high temperatures or high humidity. Do not leave the camera in a vehicle, as the temperature can get very high. · Do not subject the camera to strong vibrations, shocks, or pressure. Use a cushion to protect the camera from vibrations of motorcycles, automobiles, or ships. · The temperature range for camera use is 0°C to 40°C (32°F to 104°F). · The monitor may appear black at high temperatures, but will return to normal at normal temperatures. 4 · The monitor may respond more slowly at low temperatures.

This is due to liquid crystal properties, and is not a malfunction. · Sudden temperature changes will cause condensation on the inside and outside of the camera. Place the camera in your bag or a plastic bag, and remove the camera after temperature of the camera and surroundings are equalized. · Avoid contact with garbage, mud, sand, dust, water, toxic gases, or salts. These could cause the camera to breakdown.

Wipe dry any rain or water drops on the camera. · Please do not press forcefully on the monitor. This could cause it to break or malfunction. · Be careful not to overtighten the screw in the tripod socket when using a tripod. Cleaning Your Camera · Do not clean the product with organic solvents such as thinner, alcohol, or benzene.

This may cause color fading or discoloration. · Use a lens brush to remove dust accumulated on the lens or viewfinder. Never use a spray blower for cleaning as it may damage the lens. · Please contact a PENTAX Service Center for professional cleaning of the CMOS sensor. (This will involve a fee.) Storing Your Camera · Do not store the camera with preservatives or chemicals. Storage in high temperatures and high humidity can cause mold to grow on the camera. Remove the camera from its case and store it in a dry and well-ventilated place. Other Precautions · Periodic inspections are recommended every one to two years to maintain high performance. · Refer to "Precautions When Using the SD Memory Card" (p.

45) regarding the SD Memory Card. · Please note that deleting the data recorded on an SD Memory Card or formatting an SD Memory Card using a camera or computer will not necessarily delete the data so that they cannot be recovered using off-the-shelf data recovery software. Such data should be handled and managed at your own risk. 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 on the PENTAX website. Refer to p.273 for details. Thank you for your cooperation. 5 Contents For Using

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..313 11 Composition of the Operating Manual This Operating Manual contains the following chapters. 1 Before Using Your Camera Explains camera characteristics, accessories and the names and functions of various parts. 1 2 3 4 5 6 7 8 9 10 11 2 Getting Started Explains your first steps from purchasing the camera to taking pictures.

Be sure to read it and follow the instructions. 3 Basic Operations Explains the procedures for taking and playing back pictures. 4 Shooting Functions Explains the shooting-related functions. 5 Using the Flash Explains how to use the built-in flash and external flashes. 6 Shooting Settings Explains the procedures for configuring image processing and setting the file format. 7 Playback Functions Explains the procedures for playing back, deleting, and protecting images. 8 Processing Images Explains the procedures for changing the image size, using image filters and processing pictures taken in RAW format. 9 Changing Additional Settings Explains the procedures for changing the camera settings, such as the monitor settings and the image folder naming convention. 10 Connecting to a Computer Explains how to connect the camera to a computer, and includes installation instructions and a general overview of the provided software. 11 Appendix Explains troubleshooting, introduces optional accessories and provides various resources.

12 The symbols used in this Operating Manual are explained below. 1 Indicates reference page number explaining a related operation. Indicates useful information. Indicates precautions to take when operating the camera. 1 Before Using Your Camera Check the package contents and the names and functions of working parts before use. a Camera Characteristics .....

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... 14 Checking the Contents of the Package .....



18 Capture Mode Functions of buttons, dials and levers used during shooting are noted. 1 Before Using Your Camera The factory default settings are explained here. Depending on the button, these settings can be changed. 1 2 3 5 6 4 AF MF 7 9 0 8 a b c d e f 19 1 \ (Green) button You can assign a function to this button. (p.

179) a Q button Switches to Playback mode. (p.74) 2 Shutter release button Press to capture images. (p.64) b U button Displays the Live View. (p.143) 1 Before Using Your Camera 3 Main switch Move to turn the camera on and off. (p.51) c M button Displays the status screen (p.23) Displays the control panel when the status screen is shown.

(p.24) 4 Lens unlock button Press to detach the lens. (p.49) 5 mc button Sets the EV compensation and aperture values. (p. 94, p.100, p.107) d 4 button Displays the screen for setting the AF point. (p.117) When the control panel or a menu screen is displayed, press this button to confirm the selected item.

6 Mode dial Changes Capture mode. (p.83) 7 Focus mode lever Switches between autofocus mode (p.112) and manual focus mode (p.121). e Four-way controller (2345) Opens the Drive Mode/Flash Mode/White Balance/ Sensitivity setup menu (p.78). When the control panel or a menu screen is displayed, use this to move the cursor or change items. 8 K/i button Press to pop up the built-in flash. (p.

67) 9 e-dial Sets the shutter speed, aperture, sensitivity and EV compensation values. f 3 button Displays the [A Rec. Mode 1] menu (p.79). Next, press the four-way controller (5) to display other menus. 0 =/L button You can select the function of this button either to focus on the target or to lock the exposure value. (p.102, p.108, p.114) 20 Playback Mode Functions of buttons, dials and levers used during playback are noted.

1 Before Using Your Camera 3 1 2 AF MF 4 5 6 7 8 9 0 21 1 Shutter release button Press halfway to switch to Capture mode. 7 M button Displays shooting information on the monitor. (p.25) 2 Main switch Move to turn the camera on and off. (p.

51) 8 4 button Saves the setting you selected in the menu or playback screen. 1 Before Using Your Camera 3 \ (Green) button Press to change the settings, such as resetting the values. (p.179) 9 Four-way controller (2345) Use this to move the cursor or change items in the menu or playback screen. 4 K/i button Press to delete images.

(p.75) 5 e-dial Use this to enlarge an image (p.202) or display multiple images at the same time (p.204). 0 3 button Displays the [Q Playback 1] menu (p.201). Next, press the four-way controller (5) to display other menus. 6 Q button Switches to Capture mode. References to Button Names In this Operating Manual, the buttons of the fourway controller are referred to in the following way. 22 Display Indicators Monitor 1 Before Using Your Camera The following indicators appear on the monitor depending on the status of the camera.

Monitor The brightness and the color of the monitor can be adjusted. (p.250, p.251) At Start-up or when Operating the Mode Dial Guides appear on the monitor for 3 seconds (default setting) when the camera is switched on or the mode dial is turned. To not show indicators, set [Guide Display] to [Off] in the [R Set-up 1] menu. (p.248) 1 P Program Automatic Exposure P 10/10/2009 10:30AM 2 1 2 Capture mode (p.83) World time (p.244) (only when set to Destination) 3 3 Current date and time (p.56) 23 Capture Mode While shooting, the status screen is displayed showing the current shooting function settings. You can change the screen displayed by pressing the M button. 1 P 1/ 125 AUTO AF.A F 5.6 AWB ISO M Custom Image Bright OFF M HDR OFF M Before Using Your Camera ISO 200 -3 2 1 1 2 +3 OFF AF.A JPEG 12M JPEG 12M [ 37] 10/10/09 10:30AM [ 37] Status screen Control panel Blank Status screen (All items are displayed here for explanatory purposes.

The actual display may differ.) P SHIFT AF.A 1 8 11 2 9 12 14 3 4 8 18 5 6 10 17 19 21 7 1/2000 AUTO F 2.8 AWB ISO ISO 1600 -3 2 1 1 2 +3 ±1.0 G1A1 JPEG 12M 1 2 3 13 8 15 22 23 20 16 24 25 [ 37] 26 Capture Mode (p.

83) AE Lock (p.108) Multi-exposure (p.138)/Digital Filter (p.140)/HDR Capture (p.191) /Cross Processing (p.196) Custom Image (p.194) Focus Mode (p.112) AE Metering (p.104) Battery level (p.40) E-dial guide Shutter speed Aperture value ISO AUTO Sensitivity (p.

90) EV Compensation (p.107)/ Exposure Bracketing (p.109) 14 EV bar 15 Flash Exposure Compensation (p.72) 16 17 18 19 20 21 22 23 24 25 26 Adjust White Balance (p.186) Drive Mode (p.78) White Balance (p.182) AF point (p.117) ISO (p.90) Flash Mode (p.67) File Format (p.

177) JPEG Recorded Pixels (p.174) JPEG Quality (p.175) Shake Reduction (p.128) Remaining image storage capacity 4 5 6 7 8 9 10 11 12 13 24 Control panel Press the M button in the status screen to display the control panel and change settings. 1 Before Using Your Camera Custom Image Bright OFF 1 2 HDR OFF OFF 3 8 13 4 9 14 18 5 10 15 6 11 16 7 12 17 19 AF.

A JPEG 12M 10/10/09 10:30AM [ 37] 11 12 13 14 15 16 17 1 2 3 4 5 6 7 8 9 10 Function name Setting Custom Image (p.194) Cross Processing (p.196) Digital Filter (p.140) HDR Capture (p.191) Shake Reduction (p.

128) AE Metering (p.104) AF Mode (p.115) Select AF point (p.117) Highlight Correction (p.189) Shadow Correction (p.190) File Format (p.177) JPEG Recorded Pixels (p.174) JPEG Quality (p.175) Distortion Correction (p.192) Lateral Chromatic Aberration Correction (p.

192) 18 Date and Time 19 Remaining image storage capacity · Settings that cannot be changed due to the current camera setup cannot be selected. · The status screen will disappear if no operations are made within 30 seconds. Press the M button to display it again. · If no operations are made within 30 seconds in the control panel, the status screen will reappear. · If [Shooting Info Display] is set to O (On) in [Memory] (p.260) of the [A Rec. Mode 4] menu and the blank screen is selected, the next time the camera is turned on the blank screen is displayed first. 25 Playback Mode The camera switches the type of information display when you press the M button during playback. Standard Histogram display Captured image, file format and indicators are displayed. Captured image and histogram (Brightness/RGB) are displayed.

Not available during movie playback. 1 Before Using Your Camera Detailed information Detailed information on how and when the image was display taken is displayed. No info. display Only captured image is displayed. M 1/ 2000 F5.

6 100-0001 1/ 2000 F5.6 100-0001 Standard M Histogram display M P M 1/ 2000 AF.A 24mm F2.8 +1.5 ISO 200 JPEG 12M -0.  
5 G2A1 AdobeRGB ±0 ±0 ±0 ±0 ±0 10/10/09 10:00AM 100-0001 No info.



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display Detailed information display The information that is shown first during playback is the same as that of the last playback in the previous session. If [Playback Info Display] is set to P (Off) in [Memory] (p.260) of the [A Rec. Mode 4] menu, the [Standard] screen is always displayed first when the camera is turned on. 26 Detailed information display Use the four-way controller (23) to switch between pages. The copyright information is displayed on page 2. Page 1 1 Before Using Your Camera Still Picture P AF.A 1 3 2 4 5 7 8 24mm 1/ 2000 DR 200 F2.8 +1.

5 ISO 200 JPEG 12M -0.5 G2A1 AdobeRGB ±0 ±0 ±0 ±0 ±0 ±0 6 9 27 28 10 16 20 23 24 11 12 13 14 15 17 18 19 21 22 25 29 26 30 10/10/09 10:00AM 100-0001 Movie P 3 F2.8 4 31 10min10sec MONO ON G2A1 +1.5 ±0 ±0 ±0 ±0 ±0 ±0 2 32 33 21 16 27 28 22 17 11 12 13 23 24 25 29 Movie 1.6 M 3:2 10/10/09 10:00AM 100-0001 30 Page 2 2 3 Still Picture/Movie Photographer ABCDEFGHIJKLMNOP QRSTUVWXYZ Copyright Holder ABCDEFGHIJKLMNOP QRSTUVWXYZ 34 2 3 35 35 34 36 36 27 1 2 3 4 5 6 7 8 9 10 11 12 13 Rotation information (p.213) Captured image Protect (p.219) Capture Mode (p.83) Focus Mode (p.112) AF point (p.117)/Autofocus Mode (p.

144) Flash Mode (p.67) AE Metering (p.104) Lens focal length Shutter speed Shake Reduction (p.128) Drive Mode (p.78) HDR Capture (p.191)/ Multi-exposure (p.138)/ Cross Processing (p.196) Highlight Correction (p.189) Shadow Correction (p.190) Aperture value EV Compensation (p.107) Flash Exposure Compensation (p.72) 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 Digital Filter (p.140) Sensitivity (p.90) White Balance (p.182) Adjust White Balance (p.186) File Format (p.177) Recorded Pixels (p.148, p.174) Quality Level (p.148, p.

175) Color Space (p.187) Image Tone (p.194) Custom Image parameters (p.194) Shooting date/time Folder number-File number (p.252) Recording time Sound (p.148) Audio mode (p.148) Information tampering warning Photographer (p.257) Copyright Holder (p.257) 1 Before Using Your Camera 14 15 16 17 18 \* For images shot with Live View, the autofocus mode is displayed for indicator 6. \* Indicators 7 and 18 appear only for images in which the flash was discharged.

\* Indicators 13, 14, 15, 19, and 22 appear only for images taken with the corresponding functions enabled. \* Indicators 24 and 25 do not appear for RAW images. 28 1 Before Using Your Camera Histogram Display The following histograms can be displayed when playing back still pictures. The "Brightness histogram" shows the distribution of brightness and the "RGB histogram" shows the distribution of color intensity. Press the four-way controller (23) to switch between "Brightness histogram" and "RGB histogram".

1 23 8 11 9 10 1/ 2000 2 1/ 2000 23 F5.6 100-0001 1 F5.6 100-0001 3 1 2 3 4 5 6 4 5 6 7 7 8 9 10 11 3 4 56 7 Brightness histogram RGB histogram Histogram (Brightness) Switch RGB histogram/ Brightness histogram File Format Shutter speed Aperture value Protect Folder number-File number Histogram (R) Histogram (G) Histogram (B) Switch Brightness histogram/ RGB histogram \* Indicator 6 appears only for images with Protect setting. If [Bright/Dark Area] is set to O (On) in [Playback Display Method] of the [Q Playback 1] menu, areas affected by bright or dark portions blink (except when in RGB histogram display and Detailed information display). (p.

203) 29 Using the Histogram A histogram shows the brightness distribution of an image. The horizontal axis represents brightness (dark at the left and bright at the right) and the vertical axis represents the number of pixels. The shape and the distribution of the histogram before and after shooting tells you whether the exposure level and contrast are correct or not, and lets you decide if you need to adjust the exposure and take a picture again. 1 Adjusting the Exposure (p.107) 1 Adjusting the Brightness (p.189) Understanding Brightness When the brightness is correct and there are no overly bright or dark areas, the graph peaks in the middle. If the image is too dark, the peak is on the left side, and if it is too bright, the peak is on the right side. Number of pixels 1 Before Using Your Camera (Dark) Brightness (Bright) Bright portions Dark portions Dark image Image with few bright or dark areas Bright image When the image is too dark, the part to the left is cut off (dark portions with no detail) and when the image is too bright, the part to the right is cut off (bright portions with no detail). Bright portions blink red and dark portions blink yellow on the monitor when [Bright/Dark Area] is O (On). 1 Playing Back Images (p.

74) 1 Setting the Display for Instant Review (p.249) 30 Understanding Color Balance Distribution of color intensity is displayed for each color in the RGB histogram. The right side of the graphs look similar for images that have White Balance adjusted well. If only one color is lopsided to the left, that color is too intense. 1 Before Using Your Camera 1 Setting the White Balance (p.182) Guide Indicators The following indicators appear on the monitor to indicate the keys, buttons and e-dial that can be operated at that time. Example) 2 3 4 5 S Four-way controller (2) Four-way controller (3) Four-way controller (4) Four-way controller (5) e-dial Shutter release button \ m 3 button 4 button Green button mc button M button K/i button Viewfinder The following information appears in the viewfinder. 2 1 1 3 4 5 6 7 8 9 10 11 31 1 2 3 AF frame (p.50) Spot metering frame (p.104) Flash status (p.

67) Lit: when flash is available. Blinks: when flash is recommended but not set. Picture mode icon (p.84) The icon for Picture mode in use appears. U (Normal mode in I), = (Portrait), s (Landscape), q (Macro), \ (Moving Object), .

(Night Scene Portrait) Shake Reduction (p.128) Appears when the Shake Reduction function is activated. Shutter speed Shutter speed when capturing or adjusting. Underlined when shutter speed can be adjusted with the e-dial. Aperture value Aperture value when capturing or adjusting. Underlined when aperture value can be adjusted with the e-dial. Focus indicator (p.62) Lit: when the subject is focused. Blinks: when the subject is not in focus. Number of recordable images/EV compensation value Displays the number of recordable images with current quality and recorded pixel setting. The difference from the proper exposure value appears when the mode dial is set to a. (p.101) m: EV Compensation (p.107) Underlined when EV compensation value can be adjusted with the edial while the mc button is pressed. o: Sensitivity Underlined when the sensitivity can be adjusted with the e-dial Focus mode (p.

112) Appears when set to \. AE lock (p.108) Appears while the AE lock is activated.



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· [9999] is the maximum number of recordable images that can be displayed in the viewfinder. Even if the number of recordable images is 10000 or more, [9999] is displayed. · When [10. AF/AE-L Button] is set to [Cancel AF] in the [A Custom Setting 2] menu, \ is displayed in the viewfinder while the =/L button is pressed. (p.114) 4 1 Before Using Your Camera 5 6 7 8 9 10 11 32 How to Change Function Settings Function settings can be changed using the direct keys, the control panel or the menu. This section explains the basic ways to change function settings.

1 Before Using Your Camera Using the Direct Keys In Capture mode, you can set Drive Mode, Flash Mode, White Balance and Sensitivity by pressing the four-way controller (2345), and set AF point by pressing the 4 button. (p.78) Below, how to set the flash mode will be explained as an example. 1 Press the four-way controller (3) in Capture mode. The [Flash Mode] screen appears.

2 Use the four-way controller (45) to select a flash mode. Flash Mode Auto Flash Discharge 0.0 MENU Cancel OK OK 3 Press the 4 button. The camera is ready to take a picture. 33 Using the Control Panel While shooting, the current settings can be checked on the status screen.

You can also switch the display to the control panel and change settings. Below, how to set the JPEG Quality will be explained as an example. 1 Before Using Your Camera 1 Check the status screen and then press the M button. The control panel appears. Press the M button when the status screen is not displayed. AUTO PICT AF.A 1/20 AUTO F 5.6 AWB ISO ISO 800 -3 2 1 1 2 +3 JPEG 12M [ 37] 2 Use the four-way controller (2345) to select an item you want to change the setting for. You cannot select items that cannot be changed. Custom Image Bright OFF OFF HDR OFF AF.

A JPEG 12M 10/10/09 10:30AM [ 37] 34 3 Press the 4 button. The setup screen of the selected item appears. JPEG Quality HDR OFF OFF OFF 1 Before Using Your Camera AF.A JPEG 12M 10/10/09 10:30AM [ 37] 4 Use the four-way controller (45) or e-dial to select a setting value. JPEG Quality 128 MENU Cancel OK OK 5 Press the 4 button. The camera returns to the control panel and is ready to take a picture. · You can also change the setting by turning the e-dial after selecting the item you want to change in Step 2 on p.33. For detailed settings such as parameters, press the 4 button and then make changes. · The status screen and control panel are not displayed when Live View (p.

143) is displayed. Make the settings in the [A Rec. Mode] menu. 35 Using the Menus This section explains operation methods for the [A Rec. Mode], [Q Playback], [R Set-up] and [A Custom Setting] menus.

Below, how to set [HDR Capture] in the [A Rec. Mode 2] menu will be explained as an example. 1 Before Using Your Camera 1 Press the 3 button in Capture mode. The [A Rec. Mode 1] menu appears on the monitor.

If the 3 button is pressed in Playback mode, the [Q Playback 1] menu appears. When the mode dial is set to H (Scene), the [H Scene] menu appears instead. 2 Press the four-way controller (5). Each time the four-way controller (5) is pressed, the menu will change in the following sequence: [A Rec. Mode 2], [A Rec. Mode 3], [A Rec. Mode 4], [Q Playback 1] ... [A Rec. Mode 1]. You can also use the e-dial to switch the menus. 1234 Custom Image JPEG File Format JPEG Recorded Pixels 12M JPEG Quality D-Range Setting Lens Correction MENU Exit 3 Use the four-way controller (23) to choose an item.

1234 Cross Processing Digital Filter HDR Capture Multi-exposure AF Mode AE Metering Select AF Point MENU Exit OFF OFF Off AF.A 36 4 Press the four-way controller (5). Available settings are displayed. The frame moves to the pop-up menu if there is one. 1234 1 Before Using Your Camera Cross Processing Digital Filter HDR Capture Multi-exposure AF Mode AE Metering Select AF Point MENU Exit OFF OFF Off AF.A 5 Use the four-way controller (23) to select a setting. 1234 Cross Processing Digital Filter HDR Capture Multi-exposure AF Mode AE Metering Select AF Point MENU Cancel OFF OFF Off Standard Strong OK OK 6 Press the 4 button. The camera returns to the menu screen. Next, set other items. Press the 3 button to exit the menu and the screen that was displayed before selecting the menu appears again.

Even after you press the 3 button and close the menu screen, your settings will not be saved if the camera is turned off improperly (such as by removing the batteries while the camera is on). Refer to the following pages for details on each menu item. · [A Rec. Mode] menu 1 p.79 · [Q Playback] menu 1 p. 201 · [R Set-up] menu 1 p.240 · [A Custom Setting] menu 1 p.81 2 Getting Started This chapter explains your first steps from purchasing the camera to taking pictures. Be sure to read it and follow the instructions. Attaching the Strap .

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.. 48 Adjusting the Viewfinder Diopter ...

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..... 50 Turning the Camera On and Off .....

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. 51 Initial Settings .....

..... 52 38 Attaching the Strap 1 2 Getting Started Pass the end of the strap through the strap lug, then secure it on the inside of the clasp. 2 Attach the other end of the strap in the same manner as described above. Inserting the Batteries Insert batteries into the camera. Use four AA lithium batteries, AA Ni-MH rechargeable batteries, or AA alkaline batteries.

This camera is packaged with AA lithium batteries for checking the camera functionality but other kinds of batteries are also compatible. Use the compatible batteries according to the intended purpose. Available Batteries AA lithium batteries AA Ni-MH rechargeable batteries Characteristics Provided with the camera. Recommended when using the camera in cold climates. These are rechargeable and are economical. A commercially available battery charger that is compatible with the batteries is required. 39 2 Getting Started These are easily obtainable when the batteries you are using run out but they may not support all the camera AA alkaline batteries functions under certain conditions. We do not recommend using them except in emergencies or when checking the camera functionality. · Do not use the Ni-Mn batteries as the batteries' voltage characteristics may cause a malfunction. · AA lithium batteries and AA alkaline batteries that can be used in this camera are not rechargeable.  
· Do not open the battery cover or remove the batteries while the power is on. · Remove the batteries when you do not plan to use the camera for a long time. If you leave them in the camera for a long time, they may leak. · If the date and time settings have been reset when you insert new batteries after a long time has passed since the batteries were removed, follow the procedure for "Setting the Date and Time" (p.



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· Insert the batteries correctly. Batteries inserted incorrectly may cause a camera breakdown. Wipe the electrodes of the batteries before inserting. · Replace all the batteries at the same time and do not mix battery types, brands or old batteries with new ones. Otherwise, malfunctions, such as the battery level not being displayed properly, may occur.

40 1 Push and hold the battery cover unlock lever as shown in the illustration (1), slide the battery cover toward the lens (2) and then flip open. 1 2 2 Getting Started 2 Insert the batteries according to the +/- indicators in the battery chamber. 3 Press down on the batteries with the battery cover (3) and slide it as shown in the illustration (4) to close. 3 4 Be sure to fully close the battery cover. The camera will not turn on if the battery cover is open. · Use the AC adapter kit K-AC84 (optional) when using the camera for a prolonged period. (p.42) · Check the orientation of the batteries if the camera does not operate properly after replacing the batteries. Battery Level Indicator You can confirm remaining battery level by checking the w displayed on the status screen. 41 Status Screen w (Green) f (Orange) z (Red) "Battery depleted" Batteries are full.

Batteries are running low. Batteries are almost empty. The camera turns off after displaying the message. Battery Level f or z (Red) may appear even when the battery level is sufficient if the camera is used at low temperatures or when performing continuous shooting consecutively. In this situation, turn the camera off and on again. If w (Green) appears, you can use the camera. 2 Getting Started Approximate Image Storage Capacity and Playback Time (New Batteries) (Based on ambient operating temperature of 23 °C) Batteries AA lithium batteries AA Ni-MH rechargeable batteries (1900mAh) AA alkaline batteries Normal Recording 1900 640 210 Flash Photography (50% Use) 1100 420 130 Playback Time 680 minutes 390 minutes 350 minutes The image storage capacity (normal recording and flash use 50%) is based on measuring conditions in accordance with CIPA standards, while other data is based on our measuring conditions. Some deviation from the above figures may occur in actual use depending on shooting mode and shooting conditions. · Battery performance temporarily decreases as the temperature decreases. When using the camera in cold climates, have extra batteries at hand and keep them warm in your pocket.

Battery performance will return to normal when returned to room temperature. · Have extra batteries ready when traveling overseas, taking pictures in cold climates, or when you will be taking a lot of pictures. 42 Using the AC Adapter (Optional) We recommend using the AC adapter kit K-AC84 (optional) when using the monitor for a long time or when connecting the camera to a computer or AV device. 2 Getting Started 1 2 Make sure the camera is turned off. If batteries are inserted into the camera, open the battery cover and remove the batteries.

Refer to Step 1 on p.40. Open the battery cover and pull out the electric cable cover (1) on the right side of the battery chamber. 3 Insert the DC coupler into the battery chamber. 4 Pull out the DC coupler's electric cable as shown in the illustration. 5 6 43 Close the battery cover. Refer to Step 3 on p.40. Connect the DC terminal on the AC adapter to the DC coupler. 2 8 6 7 Getting Started 7 8 Connect the AC plug cord to the AC adapter. Plug the AC cord into the power outlet. · Make sure the camera is turned off before connecting or disconnecting the AC adapter. · Make sure connections are secure between the terminals. SD Memory Card or data may be corrupted if disconnected while the camera is recording or reading data. · Keep the electric cable cover closed when not using the AC adapter.

Be sure to read the manual of the AC adapter kit K-AC84 when using the AC adapter. 44 Inserting/Removing the SD Memory Card This camera uses either an SD Memory Card or an SDHC Memory Card. (Both cards are referred to as SD Memory Cards hereafter.) Make sure the camera is turned off before inserting or removing the SD Memory Card (commercially available). 2 Getting Started · Do not remove the SD Memory Card while the card access lamp is lit. · 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.242) for details on formatting. · Use a high-speed memory card when recording movies. If the write speed cannot keep up with the recording speed, the writing may stop during recording.

1 2 Make sure that the camera is turned off. Slide the card cover in the direction of the arrow and then lift it to open (12). 1 2 3 Insert the card all the way with the SD Memory Card label facing toward the monitor. Push the SD Memory Card in once to remove. 45 4 Close the card cover (3) and then slide it in the direction of the arrow (4).

2 Getting Started 4 3 Precautions When Using the SD Memory Card · The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK prevents new data from being recorded on the card, the stored data from Write-protect being deleted, and the card from being switch formatted by the camera or computer. · Care should be taken when removing the SD Memory Card immediately after using the camera because the card may be hot. · Do not open the card cover, remove the SD Memory Card or turn the camera off while images are being played back or saved to the card, or the camera is connected to a computer with the USB cable. Doing so 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 temperatures. · Do not remove the SD Memory Card during formatting. The card may be damaged and become unusable. · Data on the SD Memory Card may be deleted in the following circumstances. We do not accept any liability for data that is deleted if (1) the SD Memory Card is mishandled by the user. (2) the SD Memory Card is exposed to static electricity or electrical interference. (3) the SD Memory Card has not been used for a long time. (4) the SD Memory Card is ejected or the batteries are removed while the data on the card is being recorded or accessed. 46 · If the SD Memory Card is not used for a long time, the data on the card may become unreadable.

Be sure to regularly make a backup of important data on a computer. · Avoid using or storing the card where it may be exposed to static electricity or electrical interference. · Avoid using or storing the card in direct sunlight or in locations where it may be exposed to rapid changes in temperature or to condensation.



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· Be sure to format SD Memory Cards that are unused or have been used on another camera. 1 Formatting an SD Memory Card (p.242) · 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. 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. 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. 2 Getting Started Recorded Pixels and Quality Level When the File Format is JPEG Choose the number of recorded pixels (size) and quality level (JPEG data compression rate) of pictures according to how you intend to use the pictures you have taken.

Pictures with larger recorded pixels or more stars (E) are clearer when printed. However, the number of pictures that can be taken (the number of pictures that can be recorded on an SD Memory Card) decreases with larger file sizes. The quality of the captured photo or printed picture depends on the quality level, exposure control, resolution of the printer and a variety of other factors so you do not need to select more than the required number of pixels. For example, to print in postcard size, i (1728×1152) is adequate. Set the appropriate recorded pixels and quality level depending on how the picture will be used. 1 Setting the JPEG Recorded Pixels (p.174) 1 Setting the JPEG Quality Level (p.175) JPEG Recorded Pixels, JPEG Quality and Approximate Image Storage Capacity (When using a 1 GB SD Memory Card) JPEG Quality 47 JPEG Rec. Pixels C Best 138 163 267 805 D Better 244 289 468 1373 E Good 479 564 902 2518 E J P i (4288×2848) (3936×2624) (3072×2048) (1728×1152) 2 Getting Started · The number of storable images may vary depending on the subject, shooting conditions, shooting mode and SD Memory Card, etc. When the number of storable images exceeds 500, captured images are divided into folders containing 500 images each.

However, in Exposure Bracketing, images will be stored in the same folder until shooting is completed, even if the number of images exceeds 500. When the File Format is RAW With the a, you can record in the versatile JPEG format or the high quality and editable RAW format. For RAW file format, you can select PENTAX's original PEF format or general-purpose DNG (Digital Negative) format designed by Adobe Systems. On a 1 GB SD Memory Card, you can record up to 48 images in both PEF and DNG formats. 1 Setting the File Format (p.177) 48 Attaching the Lens Attach a proper lens to the camera's body. When you use one of the following lenses with the a, all the camera's capture modes will be available. (a) DA, DA L, D FA, FA J lenses (b) Lenses with an Aperture s (Auto) position, when used in the s position Turn the camera off before attaching or removing the lens to prevent unexpected lens movement. · When lenses described in (b) are used in a position other than s, some functions will be restricted. Refer to "Notes on [22.

Using Aperture Ring]" (p.284). · With factory default settings, the camera will not work with lenses other than those listed above and accessories. Set [22. Using Aperture Ring] to [Permitted] in the [A Custom Setting 4] menu to use them. (p.284) 2 Getting Started 1 2 Check that the camera is turned off. Remove the body mount cover (1) and lens mount cover (2). Be sure to put the lens down with the lens mount side facing upward to protect the lens mount from damage. 3 Align the Lens mount index (red dots: 3) on the camera and the lens, and secure by turning the lens clockwise until it clicks. After attaching, turn the lens counterclockwise to check that the lens is locked in place. 3 4 49 Remove the front lens cap by pushing the indicated portions inward. 2 Getting Started To detach the lens, hold down the lens unlock button (4) and turn the lens counterclockwise. 4 · We assume no responsibility nor liability for accidents, damages and malfunctions resulting from the use of lenses made by other manufacturers. · The camera body and lens mount incorporate lens information contacts and an AF coupler.

Dirt, dust, or corrosion may damage the electrical system. When necessary, clean the contacts with a soft dry cloth. The body mount cover (1) is a cover to prevent scratches and block dust when shipped. Body Mount Cap K is sold separately and has a lock function. 50 Adjusting the Viewfinder Diopter Adjust the viewfinder diopter to suit your eyesight.

If it is difficult to see the viewfinder image clearly, slide the diopter adjustment lever sideways. You can adjust the diopter from approximately 2.5 to +1.5 m.l. 2 Getting Started 1 Look through the viewfinder and slide the diopter adjustment lever left or right. Adjust the lever until the AF frame in the viewfinder is focused. Point the camera at a white wall or other bright and consistent surface. AF frame · The Eyecup FQ is attached to the viewfinder portion when the camera leaves the factory. Diopter adjustment is available with the Eyecup FQ attached. However, adjustment is easier with the eyecup removed.

· To remove the Eyecup FQ, pull it out in the direction of the arrow. To attach the Eyecup FQ, align it with the groove on the viewfinder eyepiece and push it into position. · If it is difficult to see the viewfinder image clearly even if you use the diopter adjustment lever, use the optional diopter correction lens adapter M. However, the Eyecup FQ must be removed to use this adapter. (p.291) Turning the Camera On and Off 51 1 Turn the main switch to [ON]. The camera will turn on. Set the main switch to the position [OFF] to turn off the camera. 2 Getting Started · Always turn the camera off when not in use. · The power will automatically turn off when you do not perform any operations within a set period of time.

To reactivate the camera after it turns off automatically, turn it on again or perform any of the following. - Press the shutter release button halfway. - Press the Q button. - Press the M button. · By default, the camera is set to turn off automatically after 1 minute of inactivity.

You can change the setting in [Auto Power Off] of the [R Set-up 3] menu. (p.253) 52 Initial Settings The first time the camera is turned on after purchasing, the [Language/u] screen appears on the monitor. Follow the procedure below to set the language displayed on the monitor and the current date and time.

Once these settings are made, you will not need to set them again when you turn on your camera.

If the [Date Adjustment] screen appears, set the date and time by following the procedure in "Setting the Date and Time" (p.



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56). 2 Getting Started MENU Cancel OK OK Date Adjustment Date Format Date Time mm/dd/yy 24h 01 / 01 / 2009 00 : 00 Settings complete MENU Cancel Setting the Display Language You can choose the language in which the menus, error messages, etc. are displayed from the following: English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Chinese (traditional/simplified) and Japanese. 1 Use the four-way controller (2345) to select the desired language. MENU Cancel OK OK 2 53 Press the 4 button. The [Initial Setting] screen for the selected language appears. Press the four-way controller (3) twice and proceed to Step 10 of p.54 if [Hometown] does not have to be changed. Initial Setting English New York Text Size Standard Settings complete MENU Cancel 3 4 5 2 Getting Started Press the four-way controller (3).

The cursor moves to W. Press the four-way controller (5). The [W Hometown] screen appears. Use the four-way controller (45) to select a city. Hometown New York DST MENU Cancel OK OK 6 7 8 9 Press the four-way controller (3). The cursor moves to [DST] (daylight saving time). Use the four-way controller (45) to select O or P. Press the 4 button. The camera returns to the [Initial Setting] screen. Press the four-way controller (3).

The cursor moves to [Text Size]. 54 10 Press the four-way controller (5) and use the four-way controller (23) to select [Standard] or [Large]. Selecting [Large] magnifies the selected menu item. Initial Setting English New York Text Size Standard Large Settings complete OK OK 2 Getting Started MENU Cancel 11 12 Press the 4 button. Press the four-way controller (3) to select [Settings complete].

Initial Setting English New York Text Size Standard Settings complete MENU Cancel OK OK 13 Press the 4 button. The [Date Adjustment] screen appears. In this manual, the menu screens hereafter are described with [Text Size] set to [Standard]. 55 When the Wrong Language is Set If you mistakenly select the wrong language in the [Language/u] screen and proceed to the [Date Adjustment] screen, you can perform the following operation to set the language back. If you have proceeded to switch the camera to Capture mode (and the camera is ready to take a picture), perform the following operation from Step 2 to set the language back.

1 Press the 3 button once to display the guides on the monitor. The screen shown on the right is an example of the guides displayed. The displayed screen will vary depending on the selected language. The guides appear on the monitor for 3 seconds. 2 Getting Started P P 2009/01/01 00:00 2 3 4 5 6 Press the 3 button once. [A 1] is displayed in the upper tab. H is displayed when the mode dial is set to H. Press the four-way controller (5) five times. [R 1] is displayed in the upper tab. Press the four-way controller (5) six times when the mode dial is set to H.

Press the four-way controller (3) to select [Language/ u]. Press the four-way controller (5). The [Language/u] screen appears. Use the four-way controller (2345) to select the desired language and press the 4 button. The [R Set-up 1] menu in the selected language appears. Refer to the following pages and set the desired city for [Hometown] and the current date and time as necessary. · To change the hometown: "Setting the World Time" (p.244) · To change the date and time: "Changing the Date and Time Display" (p.244) 56 · When the hometown and the date and time are not set, the [Initial Setting] screen or [Date Adjustment] screen will be displayed when the camera is turned on again. · If you have not proceeded to the [Date Adjustment] screen, you can reselect a language using the four-way controller (5) in the [Language/u] screen.

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

Date Adjustment Date Format Date Time mm/dd/yy 24h // 01 / 01 / 2009 00 : 00 Settings complete MENU Cancel OK OK 3 4 Press the four-way controller (5). The frame moves to [24h]. Use the four-way controller (23) to select 24h (24-hour display) or 12h (12-hour display). Date Adjustment Date Format Date Time mm/dd/yy 24h // 01 / 01 / 2009 00 : 00 Settings complete MENU Cancel OK OK 5 Press the four-way controller (5). The frame returns to [Date Format].

6 7 8 57 Press the four-way controller (3). The frame moves to [Date]. Press the four-way controller (5). The frame moves to the month. Use the four-way controller (23) to set the month. Set the day and year in the same manner. Next, set the time. If you select [12h] in Step 4, the setting switches between am and pm depending on the time. Date Adjustment Date Format Date Time mm/dd/yy 24h 01 / 01 / 2009 00 : 00 Settings complete MENU Cancel OK OK 2 Getting Started 9 Press the four-way controller (3) to select [Settings complete]. Date Adjustment Date Format Date Time mm/dd/yy 24h 01 / 01 / 2009 00 : 00 Settings complete MENU Cancel OK OK 10 Press the 4 button.

The camera returns to the status screen and is ready to take a picture. If you set the date and time with the menu operations, the screen will return to the [R Set-up 1] menu. In this case, press the 3 button. Pressing the 3 button while adjusting the date cancels the settings made up to that point and switches the camera to Capture mode. If the power is turned on when the date and time are not set, the [Date Adjustment] screen is displayed if the initial settings have been completed. You can also set the date later by menu operations. (p.244) · When you press the 4 button in Step 10, the camera clock is reset to 00 seconds.

To set the exact time, press the 4 button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

· You can change the language and date and time settings with menu operations. (p.244, p.247) 58 Memo 3 Basic Operations This chapter explains basic operations for shooting by setting mode dial to I (Auto Picture) to ensure successful capturing. For information about advanced functions and settings for taking pictures, refer to chapter 4 and onward.

Basic Shooting Operation .....

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60 Using a Zoom Lens .....

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..... 66 Using the Built-in Flash ....

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67 *Playing Back Pictures* .....

..... 74 60 *Basic Shooting Operation Holding the Camera* How you hold the camera is important when taking pictures. · Hold the camera firmly with both hands and keep your elbows close to your body. · Press the shutter release button gently when taking a picture.

3 *Basic Operations Horizontal position Vertical position* · To reduce camera shake, support your body or the camera on a solid object such as a table, tree, or wall.



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