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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX K20D. You'll find the answers to all your questions on the PENTAX K20D in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX K20D
User guide PENTAX K20D
Operating instructions PENTAX K20D
Instructions for use PENTAX K20D
Instruction manual PENTAX K20D

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PENTAX K20D Operating Manual

PENTAX



SLR Digital Camera

K20D

Operating Manual



For optimum camera performance, please read the Operating Manual before using the camera.



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Manual abstract:

pentax.co.uk) PENTAX France S.A.S. 112 Quai de Bezons, B.P. @@@@Box 650, 75127 Uppsala, SWEDEN (<http://www.pentax.se>) PENTAX Imaging Company A Division of PENTAX of America, Inc.
(Headquarters) 600 12th Street, Suite 300 Golden, Colorado 80401, U.S.A. (PENTAX Service Department) 12000 Zuni Street, Suite 100B Westminster, Colorado 80234, U.S.

A. (<http://www.pentaximaging.com>) PENTAX Canada Inc. 1770 Argentia Road Mississauga, Ontario L5N 3S7, CANADA (<http://www.pentax.ca>) PENTAX Trading 23D, Jun Yao International Plaza, 789 Zhaoyang Road, (SHANGHAI) Limited Xu Hui District, Shanghai, 200032 China SLR Digital Camera Operating Manual Operating Manual <http://www.pentax.co.jp/english> · Specifications and external dimensions are subject to change without notice. @@@@To use any other lens or accessory, see p.50 and p.251. @@Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

Regarding trademarks PENTAX and smc PENTAX are trademarks of PENTAX Corporation. SD logo and SDHC logo are trademarks. This product includes DNG technology under license by Adobe Systems Incorporated. The DNG logo is either a registered trademark or trademark 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. To users of this camera · There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields. · The liquid crystal panel used in the 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. This product supports PRINT Image Matching III. PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant. Copyright 2001 Seiko Epson Corporation.

All Rights Reserved. PRINT Image Matching is a trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation. 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 monitor in this manual are different from the actual product. Memo 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 material losses. 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 the risk of electric shock. · To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children.

Seek medical attention immediately if a memory card is accidentally swallowed. · Wrapping the strap around your neck is dangerous. Take care that small children do not hang the strap over 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. · Be sure to store the battery out of the reach of children. Placing in mouth may cause an electrical shock. · 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. · If any irregularities occur during use, such as smoke or a strange odor, stop use immediately, remove the battery or the AC adapter, and contact your nearest PENTAX Service Center.

Continued use could cause a fire or electric shock. · During thunderstorms, unplug and discontinue use of the AC adapter. Continued use could cause equipment failure, a fire, or electric shock. 2 Caution · Do not short the battery or dispose of the battery in fire. Do not disassemble the battery. The battery could explode or catch fire. · Remove the battery from the camera immediately if they become hot or begin to smoke. Be careful not to burn yourself during removal. · Some portions of the camera heat up during use. There is the risk of low temperature burns when holding such portions for long periods.
· Do not place your finger over or cover the flash with clothing when discharging the flash. Fingers or clothing may be burned. · Depending on a user's physical condition, some users may experience itching, break out in a rash or suffer from eczema. If an abnormality occurs, immediately discontinue using the camera and seek medical attention. PRECAUTIONS FOR BATTERY USAGE · Only use the specified battery with this camera. Use of other batteries can cause a fire or explosion. · Keep wires, hairpins, and other metal objects away from the + and contacts of the battery. When storing a battery removed from the camera, be sure to attach the included protective cap to avoid shorting. · Do not disassemble the battery. Disassembling the battery can cause explosion or leakage.

· If any leakage from the battery should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately. · If any leakage from the battery should come in contact with skin or clothes, wash the affected areas thoroughly with water. · Do not disassemble or short circuit the battery case. Do not dispose of the battery in a fire or leave the battery in a place with high temperatures. Doing so may cause the battery to become hot, catch fire or explode. · Be sure to charge the battery with the specified battery charger. · Remove the battery from the camera immediately if it becomes hot or begins to smoke.



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Be careful not to burn yourself during removal. · Storing the battery fully charged may decrease the battery performance.

Avoid storing in high temperatures. If the battery is left inserted and the camera is not used for a long time, the battery will over-discharge and shorten the battery's usage span. · Charging the battery a day before use or on the day of use is recommended. 3 PRECAUTIONS FOR BATTERY CHARGER USAGE ·

Only use the battery charger D-BC50 supplied with the camera. Do not use the product at a voltage other than the specified voltage.

Use with a power source or voltage other than that designed can cause a fire or electrical shock. The specified voltage is 100 - 240V AC. · Do not use the battery charger to charge batteries other than rechargeable lithium-ion battery D-LI50. This can cause explosion or a fire or breakdown of the battery charger. · 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. Continued use could cause a fire or electric shock. · If water should happen to get inside the product, consult a

PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock. · If thunderstorm should be present during use of the battery charger, unplug the power cord and discontinue use. Continuing to use the product can cause damage to the equipment, fire or electrical shock. · Wipe off the plug of the power cord if it should become covered with dust. This can cause a fire. · 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. · The AC plug cord supplied with the camera is for exclusive use with the battery charger D-BC50. Do not use it with any other equipment. Care to be Taken During Handling · When traveling, take the Worldwide Service Network 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). Pictures 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. 4 · Do not clean the product with organic solvents such as thinner or alcohol benzene. · 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 store the camera with preservatives and chemicals. Storage in high temperatures and high humidity can cause mold to grow on the camera. Remove from the case and store in a dry and well-ventilated location. · 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 under high temperatures, but will return to normal as temperatures normalize. · The monitor may respond more slowly at low temperatures. This is due to liquid crystal properties, and is not a fault.

· Periodic inspections are recommended every one to two years to maintain high performance. · Sudden temperature changes will cause condensation on the inside and outside of the camera. Place the camera in your bag or a plastic bag, removing the camera after temperature of the camera and surroundings are equalized. · Avoid contact with garbage, mud, sand, dust, water, toxic gases, or salts. These could cause a camera breakdown. Wipe dry any rain or water drops on the camera. · Refer to "Precautions When Using the SD Memory Card" (p.41) regarding the SD...

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. 280 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 12 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 still pictures. 4 Shooting Functions Explains the shooting-related functions. 5 Using the Flash Explains how to use the built-in flash and the external

flash. 6 Shooting Settings Explains the procedures for configuring image processing and setting the save format. 7 Playback Functions Explains the procedures for playing back, deleting, and protecting still pictures.

8 Processing Images Explains the procedures for using image filters and processing pictures taken in RAW format. 9 Printing from the Camera Explains the procedures for setting the print settings and printing still pictures while directly connected to a printer. 10 Camera Settings Explains the procedures for changing the camera settings, such as the monitor settings and the image file naming convention. 11 Resetting to Default Settings Explains the procedure for resetting all settings to their default settings. 12 Appendix Explains troubleshooting, introduces optional accessories and provides various resources. 12 The symbols used in this Operating Manual are explained below. 1 Shows reference page number explaining a related operation. Shows useful information. Shows precautions to take when operating the camera. 1 Before Using Your Camera Check the package contents and names and functions of working parts before

use.

u Camera Characteristics

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.....32 When using menus and Fn menu, items which cannot be changed due to camera settings appear gray and cannot be selected.

14 u Camera Characteristics · Features a 23.4×15.6 mm CMOS sensor with approximately 14.6 million effective pixels for high precision and a wide dynamic range. · Features Shake Reduction (SR), an image sensor shifting shake reduction system.

This enables you to capture sharp pictures with minimal camera shake regardless of the lens type. · Features an AF sensor with 11 focusing points. The central 9 are wide cross area sensors. · Provides high-speed continuous shooting up to a maximum of approximately 21 frames per second. · Features a viewfinder similar to that of a conventional 35 mm camera, with a magnification of approximately 0.

95 and field of view of approximately 95%, for easier manual focusing. Also features a superimpose function in which the AF points on the viewfinder illuminate red. · Features a large 2.7-inch monitor with approximately 230,000 dots, a wide viewing angle and brightness and color adjusting function for highprecision viewing performance. · Features a live view function for shooting while viewing the subject in real-time on the monitor. · A user-friendly design has been implemented in various parts of the camera. The large text, high-contrast monitor and easy-to-use menus make the camera easier to operate. · Dials, buttons, body joints, and retractable parts of the camera are splash and dust resistant. · The CMOS sensor features a special SP coating against dust deposit.

The Dust Removal function also shakes the CMOS for removing collected dust.

· Supports the optional Battery Grip D-BG2 with vertical shutter release button. If a battery (D-LI50) is inserted in both the camera and grip, the battery with more power is prioritized. This enables you to get the best camera performance for an extended period. A menu item also allows you to prioritize a battery and use its full power before switching to the other battery. · Features Custom Image with options such as Fine Sharpness and Filter Effect. These options allow you to make detailed settings, enabling a wider range of expression. · Records in the versatile JPEG format or the high quality and fully editable RAW format. You can also select JPEG+RAW and record in both formats. Pictures taken in RAW format can be easily processed internally by the camera. 1 Before Using Your Camera · Features Hyper-program and Hyper-manual modes that let you take pictures with the intended exposure.

Also features Sensitivity Priority mode K that automatically adjusts aperture and shutter speed according to the set sensitivity, and Shutter & Aperture Priority mode L that automatically adjusts sensitivity according to the set aperture and shutter speed. The captured area (view angle) will differ between the u and 35 mm SLR cameras even if the same lens is used because the format size for 35 mm film and CMOS sensor are different. Sizes for 35 mm film and CMOS sensor 35 mm film : 36×24 mm u CMOS sensor : 23.4×15.6 mm Angles of view being equal, the focal length of a lens used with a 35 mm camera must be approximately 1.

5 times longer than that of u. To obtain an angle of view framing the same area, divide the focal length of the 35 mm lens by 1.5. Example) To capture the same image as a 150 mm lens attached to a 35 mm camera $150 \div 1.5 = 100$ Use a 100 mm lens with the u.

Inversely, multiply the focal length of the lens used with u by 1.5 to determine the focal length for 35 mm cameras. Example) If 300 mm lens is used with u $300 \times 1.5 = 450$ Focal length is equivalent to a 450 mm lens on a 35 mm camera. 15 1 Before Using Your Camera Shake Reduction (SR) Shake Reduction (SR)

on the u features a PENTAX original system which uses magnetic force to move the image sensor at high speeds, compensating camera shake. The camera may generate some operating noise when it is shaken, such as when changing the composition of a picture. It is not a malfunction. 16 Checking the Contents of the Package The following accessories are packaged with your camera. Check that all accessories are included. 1 Before Using Your Camera Hot shoe cover FK (Installed on camera) Eyecup FP (Installed on camera) ME Viewfinder cap Sync socket 2P cap (Installed on camera) Body mount cover (Installed on camera) USB cable I-USB17 Video cable I-VC28 Software (CD-ROM) S-SW74, S-SW75 Strap O-ST53 Rechargeable lithium-ion D-LI50 battery Battery charger D-BC50 AC plug cord Operating Manual (this manual) Quick Guide PENTAX PHOTO Browser 3/ PENTAX REMOTE Assistant 3 PENTAX PHOTO Laboratory 3 Operating Manual Operating Manual Names and Functions of Working Parts Camera 17 1 Before Using Your Camera Hot shoe Self-Timer lamp/ Remote control receiver Mirror Card cover Lens mount index Lens unlock button Lens information contacts Diopter adjustment lever Built-in Flash LCD panel Viewfinder Self-timer lamp/ Remote control receiver Card cover unlock lever Card access lamp Strap lug X-sync socket AF coupler Cable switch terminal USB/Video terminal DC input terminal Terminal cover Monitor Tripod socket Battery grip connector terminal cover Battery cover unlock lever Battery cover 18 Capture Mode Functions of buttons, dials and levers used during shooting are noted.



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* The factory default settings are explained here. Depending on the button or dial, these settings can be changed in the [A Custom Settings] menu (p.73). 1 Before Using Your Camera 2 1 3 4 8 7 6 5 9 0 a b c d m l k j i h g f e 3 Main switch Move to turn the power on/off (p.44) or to preview (p.114). 1 Green button Sets the Exposure mode to Automatic Exposure (p.85, p.92, p.95) and resets the settings (p.101, p.136). 4 Front e-dial Sets shutter speed and EV compensation values. 2 Shutter release button Press to capture images. (p.57) 5 Lens unlock button Press to detach lens. (p.51) 19 6 Focus mode lever Switches between autofocus mode (k, l) (p.104) and manual focus mode (N) (p.110). e { button Press to display the Fn menu. (p.75) f Shake Reduction switch Turns the Shake Reduction function on or off. (p.65) 7 \ button Saves JPEG and RAW file by default. (p.158, p.159) 1 Before Using Your Camera g 4 button Saves the setting you selected in the menu. Press when menu is not displayed to display the currently selected sensitivity in the LCD panel and viewfinder. 8 K button Press to pop up the built-in flash. (p.60) 9 Mode dial Changes the Exposure mode. (p.32) 0 Metering mode lever Changes the Metering mode. (p.98) h Four-way controller (2345) Use this to move cursor or change items in menus and Fn menu. a] button Sets Exposure bracket shooting. (p.129) i AF point switching dial Sets focus area. (p.107) b 3 button Displays the [A Rec. Mode] menu (p.72). Next, press the four-way controller (5) to display [Q Playback] menu (p.170), [R Set-up] menu (p.216) and [A Custom Setting] menu (p.73). j = button Focuses on the target before metering. (p.104) k L button Locks the exposure before shooting. (p.102) l Rear e-dial Sets the aperture and sensitivity values. c M button Press to show shooting information on the monitor. (p.23) m m button Turn the front e-dial while pressing this button to set the EV compensation value. (p.100) Press to illuminate the LCD panel. (p.29) d Q button Switches to the Playback mode. (p.68) 20 Playback Mode Functions of buttons, dials and levers used during playback are noted. * The factory default settings are explained here. Depending on the button or dial, these settings can be changed in the [A Custom Settings] menu (p.73). 1 Before Using Your Camera 2 3 4 1 9 0 a 5 6 7 8 b c d 21 1 Green button Press in Enlarged view to increase the magnification. (p.173) 8 Q button Press to switch to Capture mode. 2 Shutter release button Press halfway to switch to Capture mode. 9 m button Press in Enlarged view to decrease the magnification. (p.173) 1 Before Using Your Camera 3 Main switch Move to turn the camera on and off. (p.44) Set to the \ position to switch to Capture mode and preview. 0 Z button Press to protect images from being accidentally erased. (p.189) 4 Front e-dial Use it to display the previous or next image during playback (p.69, p.173) or adjust the digital filter (p.194). a Rear e-dial Use it to enlarge an image (p.173) or display multiple images at the same time (p.175). 5 3 button Press to display the [Q Playback] menu (p.170). Next, press the four-way controller (45) to display [R Set-up] menu (p.216), [A Custom Setting] menu (p.73) and [A Rec. Mode] menu (p.72). b 4 button Saves the setting you selected in the menu or playback screen. c Four-way controller (2345) Use it to move cursor or change items in menus, Fn menu and playback screen. 6 i button Press to delete images. (p.70) d { button Press to display the Fn menu. (p.171) 7 M button Press to show shooting information on the monitor. (p.25) 22 Display Indicators Monitor 1 Before Using Your Camera The following indicators appear on the monitor depending on the status of the camera. Monitor At Start-up or when Operating the Mode Dial Guides appear on the monitor for 3 seconds when the camera is switched on or the mode dial is turned. Select Off for [Guide display] in [R Set-up] menu to not show indicators. (p.216) 1 2345 67 MF 1600 16 15 14 8 USER Shutter & Aperture Priority Automatic Exposure 9 10 RAW RAW+ AF Enable P LINE AF 02 / 02 / 2008 10 39AM 10: 39 AM 13 12 1 2 3 4 5 6 7 Flash mode (Active mode appears) (p.61) Drive mode/Auto bracket/ Multi-exposure (p.75) AE metering (p.98) Focus mode (p.104) AF point position (p.107) White balance (p.160) Sensitivity (p.78) 8 9 10 11 12 13 14 15 16 11 Shake Reduction (p.65) Exposure mode name (p.32) e-dial guide Battery level Date and time (p.220) World Time (p.221) Button guide Exposure mode USER mode * Indicators 3, 5, 6 and 7 only appear when a setting other than the default setting is selected. 8 only appears when Shake Reduction is Off. 13 only appears when World Time is On. 23 Capture Mode Press the M button in Capture mode to display the capture function settings on the monitor for 30 seconds. Press the four-way controller (23) while displayed to switch to Detailed information display. Detailed information display (p.1) 1 Before Using Your Camera USER 1/2000 F2.8 +1. 3 AF.C 4 0 0 mm - 1.0 ±0 ±0 ±0 ±0 g 1 11 12 15 17 21 30 2 13 3 6 4 7 14 16 20 5 8 9 10 25 26 27 28 29 32 ISO AUTO 2 0 0 - 1 6 0 0 10000K G2 A1 AdobeRGB RAW+ 10 02 / 02 / 2008 10 : 39 AM 18 19 22 23 24 31 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 Exposure mode (p.32) USER mode (p.133) AE metering (p.98) Flash mode (p.61) Drive mode (p.75) Exposure bracket (p.129)/ Multi-exposure (p.103) Extended bracket (p.131) Focus mode (p.104) AF point position (p.107) Lens focal length (p.65) Shutter speed (p.76) Aperture (p.77) EV compensation (p.100) Flash exposure compensation (p.136) Sensitivity (p.78) 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 ISO correction in AUTO (p.78) White balance (p.160) GM compensation (p.162) BA compensation (p.162) Color Space File format (p.158) JPEG recorded pixels (p.156) JPEG quality (p.157) Shake Reduction (p.65) Image Tone (p.154) Saturation/Filter Effect (p.154) Hue/Toning (p.154) Contrast (p.154) Sharpness/Fine Sharpness (p.154) World Time (p.221) Date and time (p.220) Battery power (p.38) 24 Detailed information display (p.2) 1 1 2 3 RAW RAW+ AF Enable Before Using Your Camera P LINE AF 4 1 2 3 4 5 Battery usage condition (p.234) Camera battery power (p.38, p.234) Grip battery power (p.38, p.234) Button guide e-dial guide 5 25 Playback Mode Every time you press the M button during playback, the camera switches screen displays in the following order: Standard display, Histogram display, Detailed information display and No information display (image only). 1 You can change the information initially displayed by pressing the Q button. Before Using Your Camera Detailed information display Av 100-0001 AF.S 1 2 3 4 15 1/1200 - 0.5 +1. 5 F2.8 ISO 200 10000K G2 A1 RAW+ 14.6 AdobeRGB 02 / 02 / 2008 10 : 39 AM 39AM g 2 4 mm ±0 ±0 ±0 ±0 16 17 5 67 18 19 8 9 10 11 13 14 20 12 24 25 26 27 21 28 29 30 31 22 32 23 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Rotation information Captured image Protect Exposure mode Metering mode Flash mode Drive mode Shutter speed Shake Reduction Exposure bracket/Multi-exposure Extended bracket Aperture EV compensation Flash exposure compensation Folder No.



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/File No. Focus mode 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 AF point position Lens focal length Image Tone Saturation/Filter Effect Hue/Toning Contrast Sharpness/Fine Sharpness Sensitivity White balance/Color temperature GM compensation BA compensation File format JPEG recorded pixels JPEG quality Color Space Shooting date/time * Indicators 6 (Flash mode) and 14 (Flash exposure compensation) only appear for images in which the flash was discharged.

26 Histogram Display The u features two histogram displays. 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 Before Using Your Camera 1 2 100-0001 1 3 23 4 6 43 2 100-0001 7 8 9 5 RGB histogram 6 RGB 23 5 Brightness histogram 1 2 3 4 5 File Format Folder No./File No. of the image (p.230) Protect icon (p.189) DPOF settings (p.204) Histogram (Brightness) (p.182) 6 7 8 9 Switch Brightness histogram/ RGB histogram Histogram (R) Histogram (G) Histogram (B) * Indicator 4 (DPOF settings) only appears for images with DPOF settings.

Areas where blooming or dark portions blink if [Bright/Dark area] warning is set to On in [Playback display] in the [Q Playback] menu. (p.182) 27 Viewfinder 2 3 1 Before Using Your Camera 1 1 4 5 6 7 9 13 15 16 8 10 11 12 14 1 2 3 4 5 6 7 8 9 AF frame (p.52) Spot metering frame (p.98) AF point (p.107) Flash status (p.60) Appears when flash is available and blinks when flash is recommended but not set or is being charged. Shutter speed (p.76) Shutter speed when capturing or adjusting (underlined when shutter speed can be adjusted with the front e-dial). Aperture (p.77) Aperture when capturing or adjusting (underlined when aperture can be adjusted with the rear e-dial). Focus indicator (p.56) Appears when image is focused. Blinks when the subject is not in focus. Manual focus (p.110) Appears when focus mode is \. EV bar (p.94, p.100) Shows the EV compensation values or difference between the appropriate and current exposure values when Exposure mode is set to a. 28 10 File format (p.158) Displays the image save format in RAW/RAW+ format. Not displayed in JPEG format. EV compensation (p.100) Appears when EV compensation is available or in use. Flash exposure compensation (p.136) Appears when Flash exposure compensation is in use. Sensitivity display Appears when sensitivity is displayed. AE lock indicator (p.102) Appears during AE lock. Number of recordable images/EV compensation/Confirm sensitivity Show the number of recordable images with current file format (p.

158), JPEG recorded pixels (p.156) and JPEG quality (p.157). EV compensation value appears when EV compensation is being adjusted (p.100). ISO sensitivity appears if Sensitivity Priority Mode/Shutter & Aperture Priority Mode is set. Shake Reduction (p.65) Appears during Shake Reduction. 11 1 Before Using Your Camera 12 13 14 15 16 · The AF point in use for autofocus is superimposed in red when the shutter release button is pressed halfway. (p.107) · When [13. AF Button Function] is set to [Cancel AF] in the [A Custom Setting] menu, press the = button to display \ in the viewfinder. · When set to a mode other than Sensitivity Priority Mode/Shutter & Aperture Priority Mode, press the 4 button to display the ISO sensitivity in 15. (p.79) · When set to Sensitivity Priority Mode/Shutter & Aperture Priority Mode, press the 4 button to display the number of recordable images in 15.

29 LCD Panel The following information appears in the LCD panel on top of the camera. 1 Before Using Your Camera 14 6 1 2 3 4 10 1 2 3 Shutter speed (p.76) Aperture (p.77) Flash mode (p.60) : Built-in flash is ready b (when blinking, flash should be used) > : Red-eye reduction flash on 3 : Auto discharge Q: Slow-speed sync w : Wireless Drive mode (p.

75) 9 : Single frame shooting j : Continuous shooting g : Self-timer shooting W : Remote control shooting EV bar (p.94, p.100) 6 5 7 8 9 12 11 13 7 8 9 10 11 12 13 4 5 14 Auto bracket (p.129) (blinks when Exposure Bracket and Extended Bracket are both set) Flash exposure compensation (p.136) EV compensation (p.100) Battery level White balance (p.160) (Not displayed when set to Auto) O : White balance correction Sensitivity display Appears when sensitivity is displayed. 1 : RAW capture 1P : RAW+JPEG capture Recordable image no./EV compensation/PC (Pb) (PC: Personal Computer (mass storage), Pb: PictBridge) Multi-exposure (p.103) Press the m button to illuminate the LCD panel.

You can set it to not illuminate in [27. Illuminate LCD panel] in the [A Custom Setting] menu. 30 How to Operate the Menu This section explains operation methods for [A Rec. Mode] menu, [Q Playback] menu, [R Set-up] menu and [A Custom Setting] menu. 1 Before Using Your Camera Displaying the Menu screen 1 Press the 3 button in Capture mode. The [A Rec. Mode] menu appears on the monitor. Rec. Mode JPEG Rec. Pixels JPEG Quality File Format RAW file format Extended Bracket Multi-exposure MENU 14.

6M JPEG PEF Off Off 1/2 Exit 2 Press the four-way controller (5). The [Q Playback] menu, [R Set-up] menu and [A Custom Setting] menu appear in order each time the four-way controller is pressed. (The screen for the [R Set-up] menu is shown on the right.) Set-up USER Format Beep Date Adjust World Time Language MENU English 1/4 Exit 31 Selecting and Setting a Menu Item Procedure to set the [JPEG Quality] on the [A Rec. Mode] menu is explained as an example.

3 Use the four-way controller (23) to choose an item. Turn the front e-dial to navigate the menu a page at a time. 1 Rec. Mode JPEG Rec. Pixels JPEG Quality File Format RAW file format Extended Bracket Multi-exposure MENU 14. 6M Before Using Your Camera JPEG PEF Off Off 1/2 Exit 4 Press the four-way controller (5). Quality levels available when recording in JPEG format are displayed. Press the four-way controller (5) to move to the pop-up menu if there is one. When the quality level is changed, the number of recordable images at that quality level appears at the top right of the screen. JPEG Rec. Pixels JPEG Quality File Format RAW file format Extended Bracket Multi-exposure MENU 14.6M 128 Off OK Cancel OK 5 6 Use the four-way controller (23) to select a setting. Press the 4 button. The camera returns to the menu screen. Next, set other items.

Press the 3 button to return to Capture or Playback mode. 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 battery while the camera is on). · You can use the front e-dial to display the previous/next page and the rear e-dial to switch among the [A Rec.



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Mode] menu, the [Q Playback] menu, [R Set-up] menu, and [A Custom Setting] menu when no pop-up menu is displayed. · If the 3 button is pressed in Capture mode, the [A Rec. Mode] menu appears. If the 3 button is pressed in Playback mode, the [Q Playback] menu appears. 32 Using the Mode Dial Dial indicator 1 Before Using Your Camera You can switch the Exposure mode by setting the icons on the mode dial to the dial indicator. Item A (USER) B (Green) Function Lets you capture images with settings that you set. Automatically sets shutter speed and aperture to the proper exposure according to Program line when taking pictures.

Automatically sets shutter speed and aperture to the proper exposure according to Program line when taking pictures. You can use the front and rear edials to easily switch between shutter priority and aperture priority. Automatically sets the shutter speed and aperture to the proper exposure according to the set sensitivity. Lets you set the desired shutter speed to freeze or emphasize subject movement. Set aperture for controlling the depth of field.

Automatically sets the sensitivity so that the selected shutter speed and aperture will give the proper exposure according to the brightness of the subject. Lets you set shutter speed and aperture to capture the picture with creative intent. Lets you capture images that require slow shutter speeds such as fireworks and night scenes. The shutter speed is locked at 1/180 seconds. Use this when using an External flash that does not automatically change the shutter speed.

Page p.133 p.83 e (Hyperprogram) K (Sensitivity Priority) b (Shutter Priority) c (Aperture Priority) L (Shutter & Aperture Priority) a (Hyper-manual) p (Bulb) M (Flash X-sync speed) p.84 p.85 p.87 p.89 p.91 p.93 p.96 p.

97 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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...34 Using the Battery ..

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.....35 Inserting/Removing the SD Memory Card ..

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..40 Turning the Camera On and Off ...

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...44 Initial Settings ..

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.....45 Attaching the Lens ..

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.....50 Adjusting the Viewfinder Diopter

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.....52 34 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 Pass the other end of the strap through the other strap lug on the camera, then secure it on the inside of the clasp. Using the Battery Insert the battery into the camera. Use only a D-LI50 battery. 35 Charging the Battery 2 Getting Started Battery charger D-BC50 Battery D-LI50 AC plug cord Indicator lamp When using the battery for the first time, or when the battery has not been used in a long time, or when [Battery depleted] appears, recharge the battery.

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 Connect the AC plug cord to the battery charger. Plug the AC plug cord into the power outlet. Face the mark on the exclusive battery up and insert it into the battery charger. The indicator lamp is lit red during charging. The indicator lamp turns off when the battery is fully charged.

4 When the battery is fully charged, remove the battery from the battery charger. 36 · Do not use the provided battery charger to charge batteries other than rechargeable lithium-ion battery D-LI50. Charging other batteries may cause damage or heating. · If the battery is correctly oriented and inserted into the

battery charger but the indicator lamp is not lit, the battery is faulty. Install a new battery in the camera. · The maximum charging time is approximately 180 minutes. Charge in a location where the temperature is between 0°C and 40°C. (Charge time depends on temperature and remaining battery power.) · If usage time is reduced even when properly charged, the battery has reached the end of its usage span. Install a new battery in the camera.

2 Getting Started Inserting/Removing the Battery When using the battery for the first time, charge the battery and insert it into the camera. · Do not open the battery cover or remove the battery while the power is on. · Remove the battery when you will not use the camera for a long while. The battery may leak. · If the date and time settings have been reset when you insert a new battery after a long time, follow the procedure for "Setting the Date and Time".

(p.48) · Insert the battery correctly. If the battery is inserted incorrectly, it may cause camera breakdown. Wipe the electrodes of the battery with a soft dry cloth before inserting. · Be careful as the camera or battery may become hot when the camera is used continuously for a long period of time.

1 Open the battery cover. Lift the battery cover unlock lever, turn towards OPEN (1) to unlock, and then pull the cover open (2). 2 1 37 2 Face the mark on the battery towards the monitor, push the battery lock lever in the direction of the arrow (1) and insert the battery. Insert until the battery locks. To remove the battery, push the battery lock lever in the direction of the arrow (1) with your hand. The battery pops out slightly. Remove it. 2 1 Getting Started Battery lock lever 3 Close the battery cover (1) and turn the battery cover unlock lever towards CLOSE (2) to lock. Stow the battery cover unlock lever when finished closing. 1 2 Use the AC adapter D-AC50 (optional) when using the camera for a prolonged period.

(p.39) 38 Battery Level Indicator You can confirm remaining battery level by checking the { displayed on the LCD panel. { lit lit lit blink : Battery is full. : Battery is running low. : Battery is almost empty. : The camera turns off after displaying a message. 2 Getting Started } ? ? · } may appear even when the battery level is sufficient if the camera is used at low temperatures or when performing continuous shooting consecutively. Turn the camera off and on again. If { appears, you can use the camera. · { does not appear on the LCD panel when using the AC adapter.

Approximate Image Storage Capacity and Playback Time (Exclusive Battery Fully Charged) Battery (Temperature) Normal recording 740 700 Flash photography 50% use 100% use 530 430 420 320 Playback time D-LI50 (23°C) (0°C) 330 minutes 300 minutes The picture storage capacity (flash use 50%) is based on measuring conditions in accordance with CIPA standards and the others are based on PENTAX 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 on 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.



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· If usage time is reduced even when properly charged, the battery has reached the end of its usage span. Install a new battery in the camera. 39 Using the AC Adapter (Optional) 1 2 2 Getting Started We recommend using the AC adapter D-AC50 (optional) when using the monitor for a long time or when connecting to your PC. 1 2 3 4 Make sure the camera is turned off and open the terminal cover.

Face the mark on the DC terminal of the AC adapter towards the mark on the camera, and connect the DC terminal to the DC input terminal of the camera. 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 camera, AC adapter, AC plug cord terminal and the power outlet. SD Memory Card and data will be corrupted if disconnected while camera is recording or reading data. · Be sure to read the AC adapter D-AC50 operating manual when using the AC adapter. · The battery in your camera will not charge when connected to the AC adapter. 40 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 (market product). · 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 the SD Memory Card" (p.218) for details on formatting. 2 Getting Started 1 Lift the card cover unlock lever (1) and turn it towards OPEN (2). The card cover opens. 2 1 2 Insert the card all the way with the SD Memory Card label toward the monitor. Push the SD Memory Card in once to remove. 3 Close the card cover.

Be sure to fully close the card cover. The camera will not turn on if the card cover is open. 41 Precautions When Using the SD Memory Card · The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK protects the existing data by Write-protect prohibiting recording of new data, deletion switch of existing data or formatting of the card. · Care should be taken when removing the SD Memory Card immediately after using the camera because the card may be hot.

· Do not remove the SD Memory Card or turn the camera off while data is being saved to the card, images are being played back, or the camera is connected to a computer with the USB cable. 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 temperatures. · Do not remove the SD Memory Card during formatting.

The card may be damaged beyond use. · Data on the SD Memory Card may be deleted in the following circumstances. PENTAX does 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 card has not been used for a long time. (4) the card is ejected 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 computer. · Avoid using or storing the card where it may be exposed to static electricity or electrical interference.

· Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation. · For information on compatible SD Memory Cards, visit the PENTAX website. · Format new SD Memory Cards. Also format SD Memory Cards used with other cameras. 1 Formatting the SD Memory Card (p.218) · 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 42 Recorded Pixels and Quality Level When the File Format is JPEG Choose the number of 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 Es are clearer when printed. 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 (1824×1216) is adequate. Set the appropriate recorded size and quality level depending on purpose.

Choose the appropriate number of recorded pixels and quality level for JPEG images on the [A Rec. Mode] menu. 1 Setting the JPEG Recorded Pixels (p.156) 1 Setting the JPEG Quality Level (p.157) JPEG Recorded Pixels, JPEG Quality and Approximate Image Storage Capacity JPEG Quality 2 Getting Started JPEG Rec.

Pixels X J P i (4672×3104) (3872×2592) (3008×2000) (1824×1216) Z Premium 34 50 88 230 C Best 58 84 142 368 D Better 105 148 245 616 E Good 205 308 457 1118 · The above table shows the approximate image storage capacity when using a 512 MB SD Memory Card. · The above figures 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 of 500 images each. However, in Auto Bracket, images will be stored in the same folder until shooting is completed, even if the number of images exceeds 500. 43 When the File Format is RAW With u, you can record in the versatile JPEG format or the high quality and editable RAW format. For RAW file format, you can select the PENTAX original PEF format or general-purpose DNG (Digital Negative) format designed by Adobe Systems. On a 512 MB SD Memory Card, you can record up to 20 images in PEF format or DNG format. 1 Setting the File Format (p.158) 2 Getting Started 44 Turning the Camera On and Off 1 2 Getting Started Move the main switch to [ON] position. The camera will turn on.



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Move the main switch to [OFF] position to turn off the camera. · 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 the camera 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 power off automatically after 1 minute of inactivity. You can change the setting with [Auto Power Off] on the [R Set-up] menu. (p.

233) Initial Settings The first time the camera is turned on after purchasing, the [Language/] screen appears on the monitor. Follow the procedure below to set the language displayed on the monitor and the current date and time. Once setting is done, these will not need to be set again when turning your camera on. If the Date Adjust screen appears, set the date and time by following the procedure in "Setting the Date and Time" (p.48).

45 2 Getting Started MENU Cancel OK OK Date Adjust Date Style Date Time MENU mm/dd/yy 24h 01 / 01 / 2008 00 : 00 Cancel OK OK 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, Russian, Korean, Chinese (traditional/simplified) and Japanese. 1 Use the four-way controller (2345) to select the desired language. The default setting is English. MENU Cancel OK OK 46 2 Press the 4 button.

The [Initial Setting] screen for the selected language appears. Press the four-way controller (3) twice and proceed to Step 9 if [Hometown] does not have to be adjusted. Initial Setting Language New York Text Size MENU English Std. OK Cancel OK 2 Getting Started 3 4 5 6 7 8 9 Press the four-way controller (3). The cursor moves to W. Press the four-way controller (5) and use the four-way controller (45) to select the city. Press the four-way controller (3). The cursor moves to DST (daylight saving time). Use the four-way controller (45) to select O (On) or P (Off). Press the 4 button.

The camera returns to the [Initial Setting] screen. Press the four-way controller (3). The cursor moves to [Text Size]. Press the four-way controller (5) and use the four-way controller (23) to select [Std.] or [Large]. Selecting [Large] magnifies the selected menu item. Initial Setting Language New York Text Size MENU English Std. Large OK Cancel OK 10 Press the 4 button twice. The screen for setting the date and time will be displayed. In this manual, the menu screens hereafter are described with [Text Size] set to [Std].

] . 47 When an Incorrect Language is Set When you mistakenly select a language in the [Language/] screen, you can perform the following operations to set the correct language. 1 Press the 3 button once or twice to display the guides (p.22) 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. (Capture mode) 9 P RAW AF AF.S 2 RAW+ P LINE Getting Started 2008 / 01 / 01 00 : 00 00: 2 3 4 5 6 Press the 3 button once. A is displayed in the upper tab.

[A Rec. Mode] menu) Press the four-way controller (5) twice. R is displayed in the upper tab. [R Set-up] menu) Use the four-way controller (3) to select [Language/ in the bottom row. Press the four-way controller (5). The [Language/] screen appears.] Use the four-way controller (2345) to select the desired language and press the 4 button. The [R Set-up] menu for 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 Hometown: "Setting the World Time" (p.

221) · To change date and time: "Changing the Date and Time and the Display Style" (p.220) When [Hometown] and the date and time are not set, the [Initial Setting] or [Date Adjust] screen will be displayed when the camera is turned on again. 48 Setting the Date and Time Set the current date and time and the display style. 1 2 Getting Started Press the four-way controller (5). The frame moves to [mm/dd/yy]. Date Adjust Date Style Date Time MENU mm/dd/yy 24h 01 / 01 / 2008 00 : 00 Cancel OK OK 2 3 Use the four-way controller (23) to choose the date style. Press the four-way controller (5). The frame moves to [24h]. Date Adjust Date Style Date Time MENU mm/dd/yy 24h 01 / 01 / 2008 00 : 00 Cancel OK OK 4 5 6 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]. Press the four-way controller (3). The frame moves to [Date]. 49 7 Press the four-way controller (5). The frame moves to the month.

Date Adjust Date Style Date Time MENU mm/dd/yy 24h 01 / 01 / 2008 00 : 00 Cancel OK OK 2 Getting Started 8 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. 9 Press the 4 button.

The camera 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] menu. Press the 4 button again. Pressing the 3 button while adjusting the date cancels the settings made so far and switches the camera to Capture mode. If the power is turned on without the date and time set, the Date Adjust screen is displayed if Initial Setting has been performed. You can also set the date later by menu operations. (p.220) · When you finish the settings and press the 4 button, 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 the menu operations. (p.220, p.224) 50 Attaching the Lens All camera exposure modes are available when using DA, D FA, FA J or other lenses with an Aperture s (Auto) position. Some functions are restricted when lenses are not set to the Aperture s position. Also see "Notes on [36. Using Aperture Ring]" (p.251). Other lenses and accessories will not be available with factory default settings. To allow shutter release with lenses or accessories not listed above, set [36.

Using aperture ring] in the [A Custom Settings] menu. (p.75) Turn the camera off before attaching or removing the lens to prevent unexpected lens movement. 2 Getting Started 1 2 Check that the camera is turned off. Remove the body mount cover (1) and lens mount cover (2).



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Be sure to put the lens down with the lens mount side facing upward to protect the lens mount from damage after removal. 3 Align the red dots 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. 51
4 Remove the front lens cap by pushing the indicated portions inward. 2 To detach the lens, hold down the lens unlock button (3) and turn the lens counterclockwise.

Getting Started 3 · 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. · 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. 52 Adjusting the Viewfinder Diopter Adjust the viewfinder 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 2.5m-1 to +1.

5m-1. 2 Getting Started 1 Look through the viewfinder and point the camera at a white wall or other bright and consistent surface. Slide the diopter adjustment lever left or right. Adjust the lever until the AF frame in the viewfinder is focused. AF frame · The FP Eyecup is attached to the viewfinder portion when camera leaves the factory. Diopter adjustment is available with the FP Eyecup attached. However, adjustment is easier with the eyecup removed. To remove the FP Eyecup, press in one side and pull it out in the direction of the arrow. To attach the FP Eyecup, 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 set the diopter adjustment lever, use the diopter correction lens adapter M.

However, the eyecup must be removed to use this adapter. (p.258) 3 Basic Operations This chapter explains basic operations for shooting by setting mode dial to Green mode (automatic exposure according to the Normal program line) 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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.....54 Using a Zoom Lens .

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.....59 Using the Built-in Flash

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.....60 Taking Pictures Using the Shake Reduction Function .

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.....65 Playing Back Still Pictures ..

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.....68 Deleting Images

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.....70 54 Basic Shooting Operation Holding the Camera How you hold the camera is important when taking pictures.

· Hold the camera firmly with both hands. · 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. · Although there are individual differences among photographers, the shutter speed for a handheld camera is generally 1/(focal length × 1.5).

For example, it is 1/75 of a second for a focal length of 50 mm and 1/150 of a second for 100 mm. Use a tripod or the Shake Reduction function (p.65) when using a lower shutter speed. · When using a telephoto lens, a tripod that is heavier than the total weight of the camera and lens is recommended to avoid camera shake. · Do not use the Shake Reduction function when using the camera on a tripod. 55 Letting the Camera Choose the Optimal Settings The u features various Capture modes, Focus modes, and Drive modes suited for your intentions. This section explains how to take pictures by simply pressing the shutter release button. 1 Set the mode dial to B. The Exposure mode changes to B (Green) mode. In B, proper exposure is determined by the camera and the shutter speed and aperture are automatically set.

(p.83) 3 Basic Operations 2 Set the focus mode lever to l. The Focus mode changes to l (Autofocus/Single) mode. In l, the lens automatically focuses when the shutter release button is pressed halfway. When the image is focused, the shutter can be released. (p.104) 56 3 Look through the viewfinder to view the subject. A zoom lens can be used to change the size of the subject in the viewfinder. 1 Using a Zoom Lens (p.59) 4 3 Basic Operations Position the subject inside the AF frame and press the shutter release button halfway.

The autofocus system operates. The focus indicator J appears in the viewfinder when the subject comes into focus. The flash does not pop up automatically. If the flash is necessary, the flash status E blinks. Press the K button (p.

63) to pop up the flash manually. 1 Operating the shutter release button (p.57) 1 Subjects that are Difficult to Focus on (p.58) 1 Using the Built-in Flash (p.60) 1 Selecting the Focusing Area (AF Point) (p.

107) Flash status Focus indicator J You can preview the image in the monitor and check the composition, exposure, and focus before taking the picture. (p.113)

5 Press the shutter release button fully. The picture is taken. 57 6 Review the captured image on the monitor. Image appears for 1 second on the monitor after capturing (Instant Review). You can magnify the image during Instant Review with the rear e-dial. (p.174) You can delete the image during Instant Review by pressing the i button. 1 Setting the Instant Review (p.

227) 1 Deleting Images (p.70) 1 Bright/Dark Area Display (p.227) 1 Histogram Display (p.227) 3 Basic Operations Delete Operating the shutter release button The shutter release button has two working positions. Not pressed Pressed halfway Pressed fully (first position) (second position) Pressing it down halfway (first position) turns on the viewfinder and LCD panel indicators and the autofocus system operates. Pressing it fully (second position) takes the picture. · Press the shutter release button gently when taking a picture to prevent camera shake. · Practice pressing the shutter release button halfway to learn where the first position is. · The viewfinder indicators stay on while shutter release button is pressed halfway. The indications stay on for about 10 seconds (default setting) while the exposure metering timer is on after the button is released.

(p.27, p.99) 58 Subjects that are Difficult to Focus on The autofocus mechanism is not perfect. Focusing may be difficult when taking pictures under the following conditions ((a) to (f) below). These also apply to manual focusing using the focus indicator J in the viewfinder.

If the subject cannot be focused automatically, set the focus mode lever to \ and use the manual focus mode to focus on the subject with the aid of the matte field in the viewfinder. (p.111) (a) Extremely low-contrast subjects such as a white wall in the focusing area.



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