



# Your PDF Guides

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

User manual PENTAX Q  
User guide PENTAX Q  
Operating instructions PENTAX Q  
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The image shows the cover of the Pentax Q Operating Manual. At the top left is the 'PENTAX' logo, and at the top right is the 'EN' language indicator. Below the logo, it says 'Digital Camera' and 'PENTAX Q Operating Manual'. In the center is a detailed line drawing of the Pentax Q camera. At the bottom, there are several logos: 'HI-SPEED CERTIFIED USB', 'SILKYPIX' (with the tagline 'THE BACKBONE OF DIGITAL DEVELOPMENT SOFTWARE'), 'SD XC', 'DNG', 'Compatible with Windows 7', 'Mac', 'Universal', and 'HDMI'. At the very bottom, a small text block reads: 'To ensure the best performance from your camera, please read the Operating Manual before using the camera.'



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**Manual abstract:**

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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.

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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 for 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 ones. · In this manual, the generic term "computer(s)" refers to either a Windows PC or a Macintosh hereafter. · In this manual, the term "battery(ies)" refers to any type of batteries used for this camera and its accessories. 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. This symbol indicates that violating this item could cause serious personal injuries. This symbol indicates that violating this item could cause minor Caution or medium personal injuries, or loss of property.

Warning 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. · Do not aim the camera at the sun or other intense sources of light when taking pictures or leave the camera sitting in direct sunlight with the lens cap off. Doing so may cause the camera to malfunction or cause a fire. · Do not look through the lens while it is pointed at the sun. Doing so may lead to a loss of eyesight or cause vision to be impaired. · 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. Continuing to use the product can cause a fire or electrical shock.

2 · 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. · 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 the Battery Charger and AC Adapter Warning · Always use the battery charger and AC adapter exclusively developed for this product, with the specified power and voltage. Using a battery charger or AC adapter not exclusive to this product, or using the exclusive battery charger or AC adapter with an unspecified power or voltage can cause a fire, electric shock, or camera breakdown. The specified voltage is 100 - 240V AC. · Do not disassemble or modify the product. This can cause a fire or electrical shock. · If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue using and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock. · If water should happen to get inside the product, consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock. · If thunderstorm should be present during use of the battery charger and AC plug cord, unplug the power plug and discontinue use.

Continuing to use the product can cause damage to the equipment, fire or electrical shock. · Wipe off the power plug if it should become covered with dust. Accumulated dust may 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. 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. · Do not handle the power plug 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. · Do not use the battery charger to charge batteries other than the rechargeable lithium-ion battery D-LI68. Attempting to charge other types of batteries may cause an explosion or heating, or may damage the battery charger.



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3 About the Rechargeable Lithium-ion Battery Warning · 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. Caution · Only use the specified battery with this camera. Use of other batteries may cause an explosion or fire. · Do not disassemble the battery.

Disassembling the battery may cause an explosion or leakage. · Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal. · Keep wires, hairpins, and other metal objects away from the + and - contacts of the battery. · Do not short the battery or dispose of the battery in fire. This can cause an explosion or fire. · If any leakage from the battery should come in contact with skin or clothes, it may cause irritation to the skin. Wash the affected areas thoroughly with water. · Precautions for D-LI68 Battery Usage: USE SPECIFIED CHARGER ONLY. - DO NOT INCINERATE.

- DO NOT DISASSEMBLE. - DO NOT SHORT CIRCUIT. - DO NOT EXPOSE TO HIGH TEMP. (140°F / 60°C) Keep the Camera and its Accessories out of the Reach of Small Children Warning · Do not place the camera and its accessories within the reach of small children. 1. If the product falls or is operated accidentally it may cause serious personal injuries. 2. Wrapping the strap around a neck may cause suffocation. 3. To avoid the risk of a small accessory such as the battery or SD Memory Cards from being swallowed by mistake, keep them out of the reach of small children.

Seek medical attention immediately if an accessory is accidentally swallowed. 4 Care to be Taken During Handling Before Using Your Camera · When traveling, take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad. · When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or when traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc. About the Battery and Charger · 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 life. · Charging the battery a day before use or on the day of use is recommended. · The AC plug cord provided with this camera is developed exclusively for the battery charger D-BC68P. Do not use it with other devices. 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. · 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 salt. These could cause the camera to breakdown. Wipe the camera to dry off any rain or water drops. · 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. 5 Cleaning Your Camera · Do not clean the product with organic solvents such as thinner, alcohol, or benzene. · Use a lens brush to remove dust accumulated on the lens.

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 cas.....

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(p.47) 20 Playback Mode Here, you can learn which parts and how they work during playback. 1 1 2 Before Using Your Camera 4 3 5 6 7 8 9 0 21 1 E-dial  
Use this to enlarge an image (p.155) or display multiple images at the same time (p.156).  
7 4 button Confirms the setting you selected in the menu or playback screen. 2 Shutter release button Press halfway to switch to Capture mode. 8 Four-way  
controller (2345) Use this to move the cursor or change items in the menu or playback screen. Press the four-way controller (3) to display the playback mode  
palette.



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152) 1 Before Using Your Camera 3 Q button Switches to Capture mode. 4 Power switch Press to turn the camera on and off. (p.47) 9 3 button Displays the [Q Playback 1] menu (p.153). 5 mc button When the file format of the last captured image is JPEG, and its data still remains in the buffer memory, press this button to save the image in RAW format. (p.61) 0 M button Changes the style of the display on the monitor. (p.25) 6 d/i (Green/Delete) button Press to delete images, or change the settings, such as resetting the values.

(p.62, p.144) References to Button Names In this Operating Manual, the buttons of the fourway controller are referred to in the following way. 22 Monitor Display Various information appears on the monitor depending on the status of the camera. 1 Before Using Your Camera The brightness level and the color of the monitor can be adjusted. (p.193) Capture Mode While shooting, the current shooting function settings are displayed on the monitor. You can change the style of the display by pressing the M button. M Custom Image Bright M M 1/2000 F2.8 1600 [ 37 ] [ 37 ] Standard display Control panel Monitor off Standard display (All items are displayed here for explanatory purposes.

The actual display may differ.) 123456 10 789 001/999 12 13 14 15 +1.7EV 11 1/2000 F2.8 1600 [ 37] 1/2000 F2.8 1600 [ 37] 16 17 18 19 20 1 2 3 4 Capture Mode (p.

69) Flash Mode (p.57) Drive Mode (p.64) White Balance (p.124) 21 5 6 22 Custom Image (p.131) Interval Shooting (p.104)/HDR Capture (p.130)/Digital Filter (p.135) 23 7 8 9 10 11 12 13 14 AE Metering (p.84) Shake Reduction (p.96)/Movie SR (p.110) Battery level (p.39) Turning the focusing ring in \ mode (p.93) ND Filter (p.148) Number of shots using Multi-exposure Multi-exposure (p.107) AF frame (p.

55) 15 16 17 18 19 20 21 22 Histogram (p.28) AE Lock (p.82) Shutter speed (p.77) Aperture value (p.77) EV bar (p.79) Sensitivity (p.75) Image storage capacity Face detection frame (when [Autofocus Method] is set to [Face Detection]) (p.87) 1 Before Using Your Camera \* Indicator 14 is displayed in white. When the subject is in focus, a green square frame is displayed instead. It turns red when the subject is not in focus.

It is not displayed when [Focus Method] is set to \. \* For indicator 22, up to 12 face detection frames are displayed when [Autofocus Method] is set to [Face Detection]. A main face detection frame is displayed in yellow and other frames in white. 24 Control panel Press the M button in Capture mode to display the control panel and change settings. A mode 1 Before Using Your Camera 1 2 3 4 5 6 7 8 9 10 Custom Image Bright 3 8 13 1 2 4 9 14 18 5 10 15 6 11 16 19 7 12 [ 65535 ] C mode Custom Image Bright 3 11 1 2 4 15 18 8 17 9 12 19 10 [ 65535 ] Function name Setting Custom Image (p.

131)/H mode (p.71) Digital Filter (p.135) HDR Capture (p.130) Highlight Correction (p.128) Shadow Correction (p.

129) AE Metering (p.84) Focus Method (p.86) Autofocus Method (p.87) 11 12 13 14 15 16 17 18 19 ND Filter (p.148) Shake Reduction (p.96)/Movie SR (p.110) Aspect Ratio (p.121) File Format (p.121) JPEG Recorded Pixels (p.122)/Movie Recorded Pixels (p.

109) JPEG Quality (p.123) Sound (p.109) Current date and time (p.50) Image storage capacity · Settings that cannot be changed due to the current camera setup cannot be selected. · If no operations are made within 30 seconds in the control panel, the standard display will reappear. · The control panel for the H (Scene) mode is displayed when the mode dial is set to H. (p.72) · For more information about the Capture mode display, refer to "Setting the Capture Mode Display Method" (p.191). 25 Playback Mode The camera switches the type of information displayed when you press the M button during playback.

Standard display Histogram display Captured image, file format and operation guide indicators are displayed. Captured image and histogram (Brightness/RGB) are displayed. Not available during movie playback. (p.26) 1 Before Using Your Camera Detailed information Detailed information on how and when the image was display taken is displayed.

(p.27) No info. display Only the captured image is displayed. 100-0001 M 100-0001 1/2000 F2.8 200 1/2000 F2.

8 200 Standard display M Histogram display M M +9.9 1/2000 100-0001 F2.8 G1A1 1600 +1.5 50mm 05/05/2011 10:30 AM ±0 ±0 ±0 ±0 No info. display Detailed information display The type of information display 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.195) of the [A Rec. Mode 3] menu, the Standard display always appears first when the camera is turned on. 26 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 2 3 100-0001 4 4 23 5 1 1/2000 2 3 100-0001 10 11 12 F2.8 200 5 6 1 2 3 4 5 6 1/2000 F2.8 200 23 7 8 9 7 8 9 10 11 12 6 7 8 9 Brightness histogram RGB histogram Histogram (Brightness) Protect setting Folder number-File number Save the RAW file data Switch RGB histogram/ Brightness histogram File Format Shutter speed Aperture value Sensitivity Histogram (R) Histogram (G) Histogram (B) \* Indicator 2 appears only for protected images. \* Indicator 4 appears only when the file format of the last captured image is JPEG, and the image can also be saved in RAW format. (p.61) If [Bright/Dark Area] (p.154) of the [Q Playback 1] menu is set to O (On), bright (overexposed) portions blink red and dark (underexposed) portions blink yellow (except when in RGB histogram display or Detailed information display).

Detailed information display Still picture 100-0001 1 5 9 2 6 10 14 18 19 25 30 26 31 7 3 8 11 15 20 21 29 4 27 28 27 +1.0 1/2000 F2.

8 G1A1 1600 +1.5 50mm 05/05/2011 10:30 AM ±0 ±0 ±0 ±0 12 16 22 23 13 17 24 1 Before Using Your Camera Movie 100-0001 1 5 32 33 2 7 3 8 11 15 20 21 30 31 29 4 27 28 10'10" 1/125 F8.0 G1A1 125 0.0 05/05/2011 10:30 AM ±0 ±0 ±0 ±0 12 16 22 23 13 17 14 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 \* \* \* Captured image 17 White Balance fine-tuning (p.127) Capture Mode (p.

69) 18 Highlight Correction (p.128) Protect setting (p.199) 19 Shadow Correction (p.129) Folder number-File number 20 Distortion Correction (p.



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200) 21 Shake Reduction (p.96)/ Movie SR (p.110) Drive Mode (p.64) HDR Capture (p.130)/ 22 File Format (p.121) Multi-exposure (p.107) 23 JPEG Recorded Pixels (p.122)/ Movie Recorded Pixels (p.109) Autofocus Method (p.87) AE Metering (p.

84) 24 JPEG Quality (p.123) Flash Mode (p.57) 25 Color Space (p.123) Flash Exposure Compensation 26 Lens focal length (p.58) 27 Digital Filter (p.135) ND Filter (p.148) 28 Image finishing tone (p.131) Shutter speed (p.77) 29 Custom Image parameters (p.132) Aperture value (p.77) 30 Shooting date and time Sensitivity (p.75) 31 DPOF setting (p.201) EV Compensation (p.79) 32 Sound (p.109) White Balance (p.124) 33 Recording time Indicators 9 and 10 appear only for images taken with the flash. Indicators 6, 11, 17, 18, 19, 20, 26, 27, and 31 appear only for images taken with the corresponding functions enabled. Indicators 23 and 24 do not appear for RAW images. 28 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 (Dark) Brightness (Bright) histogram before and after shooting Dark portions Bright portions 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.79) 1 Adjusting Brightness (p.128) Understanding Brightness When the brightness is correct and there are no overexposed or underexposed areas, the graph peaks in the middle. If the image is underexposed, the peak is on the left side, and if it is overexposed, the peak is on the right side. Number of pixels 1 Before Using Your Camera Dark (underexposed) image Image with few bright or dark areas Bright (overexposed) image When the image is underexposed, the part to the left is cut off (dark (underexposed) portions with no detail) and when the image is overexposed, the part to the right is cut off (bright (overexposed) portions with no detail). This camera can be set so that it displays the Bright/Dark Area warning during Capture or Playback mode. 1 Playing Back Images (p.61) 1 Setting the Playback Display Method (p.154) 1 Setting the Capture Mode Display Method (p.

191) 1 Setting the Display for Instant Review (p.192) 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 the white balance adjusted well. If only one color is lopsided to the left, that color is too intense. 1 Setting the White Balance (p.124) 29 1 Before Using Your Camera 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 Four-way controller (2) Four-way controller (3) Four-way controller (4) Four-way controller (5) 4 button E-dial · The image on the monitor may differ from the captured image if the brightness of the subject is low or high. · If any changes occur in the light source during shooting, the image may flicker. You can cut down on flicker by setting the power frequency in [Flicker Reduction] (p.184) of the [R Set-up 1] menu to that used in your region.

· If the camera position is changed rapidly during shooting, the image may not be displayed with the appropriate brightness. Wait for the display to become stable before shooting. · Noise may appear on the monitor image when used in dark locations. · If you continue shooting for a prolonged period, the internal temperature of the camera may increase, resulting in lower quality images. It is recommended that you turn off the camera when not shooting.

To prevent the image quality from degrading, allow enough time for the camera to cool down while shooting with long exposures or recording movies. · The higher the sensitivity, the more noise and color unevenness may occur in the monitor image and/or captured image. · Images cannot be displayed on the monitor while data is being saved to an SD Memory Card. Shutter release button 3 button M button d/ Green/Delete button mc button 30 How to Change Function Settings Function settings can be changed using the direct keys, control panel or menus. 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 Sensitivity, White Balance, Flash Mode and Drive Mode by pressing the four-way controller (2345). (p.64) Below, how to set [Flash Mode] is explained as an example. 1 Press the four-way controller (4) in Capture mode. The Flash Mode setting screen appears. 2 Use the four-way controller (45) to select a flash mode. Auto Flash Discharge 0.0 MENU Cancel OK OK 3 Press the 4 button. The camera is ready to take a picture. 31 Using the Control Panel While shooting, the current settings can be checked on the monitor, and you can switch to the control panel and change settings.

Below, how to set [JPEG Quality] is explained as an example. 1 Before Using Your Camera 1 Press the M button in Capture mode. The control panel appears. 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 as a result of current camera settings. Custom Image Bright [ 37 ] 3 Press the 4 button. The setup screen of the selected item appears. JPEG Quality [ 37 ] 4 Use the four-way controller (45) or e-dial to select a setting value. JPEG Quality 128 MENU Cancel OK OK 32 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. Detailed settings such as parameters can be changed after pressing the 4 button. 1 Before Using Your Camera Using the Menus This section explains how to use the following menus: [A Rec. Mode], [C Movie], [Q Playback], [R Set-up] and [A Custom Setting]. Below, how to set [High-ISO NR] in the [A Rec.

Mode 2] menu is explained as an example. 1 Press the 3 button in Capture mode. The [A Rec. Mode 1] menu appears on the monitor. The menus listed below are displayed in the following situations.

When the mode [C Movie 1] menu dial is set to C In Playback mode [Q Playback 1] menu 2 Press the four-way controller (5). 123 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], [C Movie 1], MENU Exit [Q Playback 1] ... [A Rec. Mode 1]. You can also change the menu by turning the e-dial. Custom Image Digital Filter Image Capture Settings Focus Settings AE Metering ND Filter 33 Use the four-way controller (23) to select an item.

123 HDR Capture Multi-exposure Interval Shooting D-Range Setting High-ISO NR Distortion Correction MENU 1 Before Using Your Camera Exit 4 Press the four-way controller (5).



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Available settings are displayed in the pop-up menu or submenu. 123 HDR Capture Multi-exposure Interval Shooting D-Range Setting High-ISO NR Distortion Correction MENU Exit 5 Use the four-way controller (23) to select a setting. Press the 3 button to cancel the pop-up menu, or return to the previous screen. 123 HDR Capture Multi-exposure Interval Shooting D-Range Setting High-ISO NR Distortion Correction MENU Cancel OK OK 6 Press the 4 button. The setting is saved. Press the 3 button if a submenu is displayed. Next, set other items. 7 Press the 3 button. The screen that was displayed before selecting the menu appears again.

34 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 select whether to display the menu tab selected the last time first, or to always display the [A Rec. Mode 1] menu first. (p.192) · Refer to the following pages for details on each menu.

- [A Rec. Mode] menu 1 p.65 - [C Movie] Menu 1p.67 - [Q Playback] menu 1p.153 - [R Set-up] menu 1p.

184 - [A Custom Setting] menu 1p.68 · Some shooting functions can be saved to the quick dial and loaded with the dial operation. (p.138) 1 Before Using Your Camera 2 Getting Started This chapter explains your first steps from purchasing the camera to taking pictures. Be sure to read this and follow the instructions. Attaching the Strap .....

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..... 37 Inserting/Removing an SD Memory Card .....

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. 48 36 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 Battery Insert the battery into the camera. Use the rechargeable lithium-ion battery D-LI68 exclusively developed for the PENTAX Q.

37 Charging the Battery 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)" 2 Getting Started 1 2 Connect the AC plug cord to the battery charger. Plug the AC plug cord into the power outlet. Indicator lamp Battery charger AC plug cord 3 Face the 2 mark on the battery up, and insert it into the battery charger. The indicator lamp is lit while charging and turns off when the battery is fully charged. 38 4 When the battery is fully charged, remove the battery from the battery charger. · Do not use the provided Battery Charger D-BC68P to charge batteries other than rechargeable lithium-ion battery D-LI68. Charging other batteries may cause damage or heating. · Replace the battery with a new one in the following cases: - If the indicator lamp blinks or does not light after the battery is inserted correctly - If the battery starts to run down more quickly even after being charged (the battery may have reached the end of its service life) The maximum charging time is approximately 115 minutes (it depends on temperature and remaining battery power).

Charge in a location where the temperature is between 0°C and 40°C. 2 Getting Started Inserting/Removing the Battery · Insert the battery correctly. If the battery is inserted incorrectly, it may not be removed. Wipe the electrodes of the battery with a soft dry cloth before inserting. · Do not open the battery cover or remove the battery while the power is on. · Be careful as the camera or battery may become hot when the camera is used continuously for a long period of time. · Remove the battery when you will not use the camera for a long while. The battery may leak. · The date and time may be reset if you leave the battery



out of the camera for long periods of time. If this occurs, follow the procedure described in "Setting the Date and Time" (p. 50) to reset the date and time. 1 Slide the battery cover in the direction of the arrow, and then lift it to open (12). 1 2 2 39 Insert the battery with the 2 mark facing toward the lens. To remove the battery, push the battery lock lever in the direction of the arrow (3) with your finger. Remove the battery when it pops out slightly.

3 3 2 Close the battery cover, and then slide it in the direction of the arrow (45). 5 4 Getting Started Battery Level Indicator You can confirm remaining battery level by checking the display on the monitor. Monitor Display w (Green) x (Green) y (Yellow) z (Red) [Battery depleted] Battery is full. Battery is close to full. Battery is running low.

Battery is almost empty. The camera turns off after displaying the message. Battery Level y 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 for a long period of time. In this situation, turn the camera off and on again. If w (Green) appears, you can use the camera. 40 Approximate Image Storage Capacity and Playback Time (when Using a Fully Charged Battery) Battery D-LI68 Temperature 23°C Normal Shooting Flash Photography 50% Use 100% Use Playback Time 250 images 230 images 210 images 160 minutes 2 Getting Started 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 taking a lot of pictures. Using the AC Adapter (Optional) We recommend the use of the AC adapter kit K-AC115 (optional) when using the monitor for a long time or when connecting the camera to a computer or AV device. 1 2 Make sure that the camera is turned off. Open the battery cover. Refer to Step 1 on p.38. Remove the battery if it is inserted in the camera. 3 41 Pull down the connection cable cover (1) on the bottom side of the battery chamber, and insert the DC coupler into the battery chamber. To remove the DC coupler, push the battery lock lever in the direction of the arrow (2) with your finger. Remove the DC coupler when it pops out slightly. 2 1 2 Getting Started 4 Close the battery cover. Pull out the connection cable from the connection cable cover section. 5 Connect the DC coupler and the AC adapter.



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6 Connect the AC adapter to the AC plug cord. 42 7 Plug the AC plug 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 card is being accessed. · The connection cable will protrude from the battery cover while the AC adapter is in use. Be careful as you will not be able to set the camera upright on a table, etc.

· After removing the DC coupler, return the connection cable cover to its original location. Be sure to read the manual of the AC adapter kit K-AC115 when using the AC adapter. 2 Getting Started Inserting/Removing an SD Memory Card This camera uses a commercially available SD Memory Card, SDHC Memory Card, or SDXC Memory Card. (These cards are referred to as SD Memory Cards hereafter.) Make sure the camera is turned off before inserting or removing the SD Memory Card. 43 2 · Do not remove the SD Memory Card while the card access lamp is lit. · If the card cover is opened while the power is on, the camera will turn off. Do not open the cover while the camera is in use. · Use this camera to format (initialize) an SD Memory Card that is unused or has been used on other devices. Refer to "Formatting an SD Memory Card" (p.

198) for details on formatting. · Use a high-speed memory card when recording movies. If a write speed cannot keep up with a recording speed, the writing may stop during recording. Getting Started 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. 44 Push the SD Memory Card in once to remove. 2 Getting Started 4 Close the card cover, and then slide it in the direction of the arrow (34). 4 3 For details on the approximate number of images that can be recorded on an SD Memory Card, refer to "Approximate Image Storage Capacity" (p.242).

Attaching a Lens Attach a Q-mount lens to the camera's body. The steps will be described here using a 01 STANDARD PRIME lens. · When attaching/removing the lens, choose an environment that is relatively free of dirt and dust. · Keep the body mount cover on the camera when a lens is not attached. · Be sure to attach the lens mount cover and lens cap to the lens after removing it.

· Do not insert any fingers into the camera mount or touch the CMOS sensor. · The camera body and lens mount incorporate lens information contacts. Dirt, dust, or corrosion may damage the electrical system. Please contact a PENTAX Service Center for professional cleaning. · We assume no responsibility nor liability for accidents, damages and malfunctions resulting from the use of lenses made by other manufacturers.

45 2 Getting Started 1 2 Make sure 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 6 4 Remove the front lens cap by pushing the indicated portions inward. 2 Getting Started To remove the lens, attach the lens cap first, hold down the lens unlock button (4), and turn the lens counterclockwise. 4 If the lens is removed while the power is on, the monitor will turn off, and the shutter release button will be locked. Do not remove the lens while the power is on. Turning the Camera On and Off 47 1 Press the power switch.

The camera will turn on. Press the power switch again 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 (Auto Power Off). 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 2] menu. (p.190) · To turn the camera on in the playback mode, press the power switch while holding down the Q button. 48 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 the next time 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.50). 2 Getting Started MENU Cancel OK OK Date Adjustment Date Format Date Time mm/dd/yy 24h 01/01/2011 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, Traditional Chinese, Simplified Chinese and Japanese.

1 Use the four-way controller (2345) to select the desired language, and press the 4 button. MENU Cancel OK OK The [Initial Setting] screen appears in the selected language. Proceed to Step 6 if W (Hometown) does not have to be changed. 49 Initial Setting English New York Settings complete MENU Cancel 2 3 Press the four-way controller (3) to move the frame to W, and press the four-way controller (5). The [W Hometown] screen appears.

2 Getting Started Use the four-way controller (45) to select a city. Refer to "List of World Time Cities" (p.189) for cities that can be selected as a hometown. Hometown New York DST MENU Cancel OK OK 4 5 6 Press the four-way controller (3) to select [DST] (daylight saving time), and 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) to select [Settings complete], and press the 4 button. The [Date Adjustment] screen appears. Initial Setting English New York Settings complete MENU Cancel OK OK When the hometown and the date and time are not set, the [Initial Setting] screen or [Date Adjustment] screen will be displayed again the next time the camera is turned on. 50 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), and use the four-way controller (23) to select the date format. Choose [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].



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Date Adjustment Date Format Date Time mm/dd/yy 24h 01/01/2011 00:00 Settings complete MENU Cancel OK OK 2 3 4 5 Press the four-way controller (5), and use the four-way controller (23) to select 24h (24-hour display) or 12h (12hour display). Press the four-way controller (5). The frame returns to [Date Format]. Press the four-way controller (3), and press the four-way controller (5). The frame moves to the month if the date format is set to [mm/dd/yy].

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 2, the camera switches between am and pm depending on the time. Date Adjustment Date Format Date Time mm/dd/yy 24h 01/01/2011 00:00 Settings complete MENU Cancel OK OK 6 5 1 Press the four-way controller (3) to select [Settings complete], and press the 4 button. Date Adjustment Date Format Date mm/dd/yy 24h 05/05/2011 Time 10:00 The camera switches to Capture mode Settings complete and is ready to take a picture.

MENU Cancel If you set the date and time from the menu, the screen will return to the [R Set-up 1] menu. In this case, press the 3 button.

OK OK 2 Getting Started Pressing the 3 button while setting the date and time cancels the settings made up to that point and switches the camera to Capture mode. After initial settings are complete, if the camera power is turned off before the date and time settings are complete, the [Date Adjustment] screen will appear first the next time you turn the camera on. You can also set the date and time from the menu later. (p.187) · When you press the 4 button in Step 6, the seconds value is set to 0.

To set the exact time, press the 4 button when the time signal (on the TV, radio, etc.) reaches 0 seconds. · You can change the language and date and time settings from the menu. (p.187, p.190) 52 Memo 3 Basic Operations This chapter explains basic operations for shooting by setting mode dial to n (Auto Picture) to have the camera select the optimum settings based on the subject. 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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... 56 Using the Built-in Flash ..

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61 54 Basic Shooting Operation Letting the Camera Choose the Optimal Settings This camera features various capture modes, focus modes, and drive modes. This section explains how to take pictures by simply pressing the shutter release button. 3 Basic Operations 1 Set the mode dial to n. The camera will select the optimal capture mode for the subject. 1 Selecting the Appropriate Capture Mode (p.

69) 2 View the subject on the monitor. A zoom lens can be used to change the size of the subject on the monitor. (p.56) 3 55 Position the subject inside the AF frame, and press the shutter release button halfway. The autofocus system operates. The AF frame turns green and you will 1/2000 F2.8 [ 37] 1600 hear a beep when the subject comes into focus. AF frame When set to n (Auto Picture) mode, the optimal capture mode is automatically selected from U (Standard), c (Portrait), s (Landscape), b (Macro), . (Night Scene Portrait), K (Sunset), d (Blue Sky) or x (Forest). (p.

70) 3 Basic Operations 4 5 Press the shutter release button fully. The picture is taken. This action is referred to as "releasing the shutter" or "release". Review the captured image on the monitor. The image appears for 1 second on the monitor shortly after capturing (Instant Review). 1 Setting the Display for Instant Review (p.192) You can enlarge the image during Instant Review with the e-dial. (p.155) You can delete the image during Instant Review by pressing the d/i button. 1 Deleting a Single Image (p.

62) · The shutter sound and the beep that sounds when the image is focused can be turned off. (p.186) · You can set the camera so that pressing the d/i button will focus automatically, in the same way as pressing the shutter release button halfway. (p.90) · You can preview the image on the monitor and check the depth of field before taking pictures.

(p.94) 56 Using a Zoom Lens Enlarge the subject (telephoto) or capture a wider area (wide angle) with a zoom lens. Adjust the subject to the desired size and take pictures. 1 3 Basic Operations Turn the zoom ring to the right or left. The angle of view changes.

The following functions can be set on the camera depending on the lens being used. - Setting whether to use the ND filter built-in to the lens (p.148). - Correcting distortion (p.149) Using the Built-in Flash Use the flash to take pictures in low light or backlit conditions. The built-in flash is optimum for a subject at a distance from 0.7 m to 3 m. Exposure will not be properly controlled and vignetting (darkening of the corners of the image due to a lack of light) may occur when used at a distance closer than 0.7 m (this distance varies slightly depending on the lens being used and the sensitivity setting. (p.

213)) For details on the built-in flash and instructions on how to take pictures with an external flash, refer to "Using the Flash" (p.211). 57 3 Basic

Operations Setting the Flash Mode Flash Mode Auto Flash Discharge Auto Flash+Redeye Reduction Flash On Flash On+Redeye Reduction Function The camera automatically measures the ambient light and determines whether to use the flash. Discharges a pre-flash for red-eye reduction before the automatic flash. Discharges the flash for each picture. Discharges a pre-flash for red-eye reduction before the main flash. Sets to a slow shutter speed depending on the brightness. When using this to shoot a portrait with the sunset in the background, both the person and the background are captured beautifully. Discharges a pre-flash for red-eye reduction before the main flash is discharged with Slow-speed Sync. Discharges the flash immediately before closing the shutter.

Captures moving objects as if they are leaving a trail behind. (p.213) The flash is deactivated. C i b D G Slow-speed Sync H +Red-eye I Sync a Slow-speed Sync Trailing Curtain Flash Off 58 The flash modes that can be selected differ depending on the capture mode. Capture Mode n/H e/c b/a \*1/u Selectable Flash Mode C/i/E/F/a C/i/E/F/G/H/I/a C/i/E/F/I/a \*1 Fixed to a in the K (Sunset), d (Blue Sky), A (Night Scene), Z (Night Scene HDR), p (HDR), y (Backlight Silhouette), U (Candlelight), n (Stage Lighting) or E (Museum) mode.

3 Basic Operations 1 2 Press the four-way controller (4) in Capture mode. The Flash Mode setting screen appears. The flash modes that can be selected for the set capture mode appear. Use the four-way controller (45) to select a flash mode, and press the 4 button. The camera is ready to take a picture.

MENU Auto Flash Discharge 0.0 Cancel OK OK Compensating Flash Output You can change the flash output in a range of 2.



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0 to +1.0. The following flash compensation values can be set in increments of 1/3 EV or 1/2 EV depending on the lens being used. Step Interval 1/3 EV 1/2 EV Flash Compensation Value 2.0, 1.7, 1.3, 1.0, 0.

7, 0.3, 0.0, +0.3, +0.7, +1.0 2.0, 1.5, 1.0, 0.5, 0.  
0, +0.5, +1.0 1 2 59 Press the four-way controller (3) in Step 2 on p.58. Turn the e-dial.

The flash compensation value is displayed. Press the d/i button to reset the value to 0.0. (Available only when [Green Button] is assigned to the d/i button in [Green Button] of the [A Rec. Mode 3] menu (p.

144.) Auto Flash Discharge +0.7 MENU Cancel OK OK 3 Basic Operations · When the flash output exceeds its maximum amount, the compensation will not be effective even if the compensation value is set to the plus (+) side. · Compensating to the minus (-) side may have no effect if the subject is too close, the aperture is set to a large opening, or sensitivity is high. · The flash output compensation is also effective for external flash units which support P-TTL auto flash mode. Shooting with the Flash 1 2 Select a flash mode. Slide the flash pop-up switch in the direction of the arrow. The built-in flash pops up. 3 4 Press the shutter release button halfway. The flash starts charging.

Press the shutter release button fully. The picture is taken. 60 5 Push down in the direction of the arrow to retract the built-in flash. 3 Basic Operations · The built-in flash discharges even when retracted, which may cause vignetting to occur depending on the lens being used. Vignetting may also occur at other times depending on the shooting conditions. · Be sure to retract the built-in flash if not planning to use it. Be careful not to get your fingers pinched when retracting the flash. · If you do not want to let the built-in flash discharge while it is retracted, set [10. Flash When Retracted] (p.68) to [Do Not Discharge Flash] in the [A Custom Setting 2] menu.

· You cannot take pictures while the built-in flash is being charged. If you want to take pictures while charging the built-in flash, set [11. Release While Charging] (p.68) to [On] in the [A Custom Setting 2] menu. Reviewing Images 61 Playing Back Images You can play back captured images with the camera.

1 Press the Q button. The camera enters Playback mode and the most recently captured image (image with the highest file number) is displayed on the monitor. (For movies, only the first frame is displayed on the monitor.) Press the M button during playback to display the shooting information of the image. (p.

25) 3 Basic Operations 2 Press the four-way controller (45). 4: Displays the previous image. 5: Displays the next image. · Refer to "Playback Functions" (p.151) for details on the playback mode functions. · When the file format of the last captured image is JPEG, and its RAW data still remains in the buffer memory, you can save the RAW image by pressing the mc button during Instant Review or playback. If the image was shot using any of the following settings, the corresponding image listed is saved. - Digital Filter RAW image without a filter effect - Smart Effect RAW image with [Bright] image finishing tone 62 Deleting a Single Image You can delete images one by one. · Deleted images cannot be restored. · Protected images cannot be deleted.

(p.199) 1 3 Basic Operations Press the Q button, and use the four-way controller (45) to select an image to delete. Press the d/i button. The delete confirmation screen appears. 2 3 Use the four-way controller (23) to select [Delete]. Select a file format to delete for images saved in RAW+ format. Delete JPEG Delete RAW Deletes only the JPEG image. Deletes only the RAW image. 100-0001 Delete Cancel OK OK Delete Deletes images in both RAW+JPEG file formats. 4 Press the 4 button.

The image is deleted. You can delete multiple images at once. Refer to "Deleting Multiple Images" (p.165) for details. 4 Shooting Functions This chapter describes the various basic and advanced shooting functions available with this camera.

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..... 64 Selecting the Appropriate Capture Mode ....

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.. 86 Checking the Depth of Field (Preview) .....

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. 96 Taking Pictures Continuously .....

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... 109 64 How to Operate the Shooting Functions You can change capture-related settings using the direct keys, control panel, [A Rec. Mode] menu, [C Movie] menu or [A Custom Setting] menu.

For details on how to use the menus, refer to "Using the Menus" (p.32). Direct Keys Setting Items 4 Shooting Functions Press the four-way controller (2345) in Capture mode to set the following items. Key Item Sensitivity White Balance Flash Mode Drive Mode Function Sets the ISO sensitivity. Adjusts the color balance to match the type of the light source illuminating the subject.

Sets the method of flash discharge. Selects Continuous Shooting, Selftimer, Remote Control or Exposure Bracketing shooting. Page p.75 p.124 p.57 p.102 p.98 p.100 p.80 2 3 4 5 65 Rec.

Mode Menu Items The following settings can be performed in the [A Rec. Mode 1-3] menus. Press the 3 button in Capture mode to display the [A Rec. Mode 1] menu. Menu Item Custom Image Digital Filter \*1 Image Capture Settings File Format \*1 \*1 \*1 Function Sets the image finishing tone such as color and contrast before shooting an image. Applies a digital filter effect when taking pictures. Sets the file format. Sets the horizontal and vertical ratio of images. Sets the recording size of images saved in JPEG format. Sets the quality of images saved in JPEG format.

Sets the color space to use. \*1 Page p.131 p.135 4 Shooting Functions Aspect Ratio JPEG Recorded Pixels \*1 JPEG Quality \*1 Color Space Focus Method \*1 p.120 A1 Focus Settings Selects the autofocus or manual focus mode.

Selects the autofocus method in = mode. Enlarges the monitor display during manual focus and makes it easier to focus on the subject. Selects the part of the sensor to use for measuring brightness and determining exposure. Sets whether to use the ND filter built-in to the lens. p.

86 p.87 p.93 Autofocus Method MF Assist AE Metering \*1 ND Filter \*1 p.84 p.148 66 Menu Item HDR Capture \*1 Function Enables capturing images with high dynamic range. Creates a picture by taking multiple exposures and merging them into a single image. Takes pictures at a set interval from a set time. Expands the dynamic range and prevents bright and dark areas from occurring. Sets the Noise Reduction setting when shooting with a high ISO sensitivity.

Reduces distortions occurring due to lens properties.

Assigns functions to the quick dial. Assigns functions to the d/i button. Sets the monitor display in Capture mode.



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