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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX X90. You'll find the answers to all your questions on the PENTAX X90 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX X90
User guide PENTAX X90
Operating instructions PENTAX X90
Instructions for use PENTAX X90
Instruction manual PENTAX X90

PENTAX



Digital Camera

X90

 Operating Manual

HDMI™

HIGH DEFINITION MULTIMEDIA INTERFACE



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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All Rights Reserved. PRINT Image Matching is a trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation. · All other brands or product names are trademarks or registered trademarks of their respective companies. Regarding Product Registration In order to better serve you, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website.

Thank you for your cooperation. Refer to "Viewing Images on a Computer" (p.219) for more information. To users of this camera · Do not use or store this device in the vicinity of equipment that generates strong electromagnetic radiation or magnetic fields. Strong static charges or the magnetic fields produced by equipment such as radio transmitters could interfere with the monitor, damage the stored data, or affect the product's internal circuitry and cause camera misoperation.

· The liquid crystal panel used in the display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image. · If you point the camera toward an object that is bright, a band of light may appear on the screen display. This phenomenon is referred to as "smear" and is not a malfunction of the camera. · There is a possibility that the illustrations and the display screen in this manual are different from the actual product. · In this manual, both an SD Memory Card and an SDHC Memory Card are referred to as SD Memory Cards hereafter. · In this manual, the generic term "computer(s)" refers to either a Windows PC or a Macintosh hereafter.

· In this manual, the term "battery(ies)" refers to any type of batteries used for this camera and accessories. USING YOUR CAMERA SAFELY We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.

Warning This symbol indicates that violating this item could cause serious personal injuries. Caution This symbol indicates that violating this item could cause minor or medium personal injuries, or material losses. About the Camera Warning · Do not disassemble or modify the camera. High voltage areas are present inside the camera, with the risk of electric shock. 1 · If the camera interior is exposed due to dropping or otherwise damaging the camera, never touch the exposed portion. There is a risk of electric shock. · Wrapping the strap around your neck is dangerous.

Take care that small children do not hang the strap around their necks. · 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 electric shock. Caution · 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, 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 the 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 electric shock. · If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue use and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electric shock.

2 · If water should happen to get inside the product, consult a PENTAX Service Center. Continuing to use the product can cause a fire or electric shock. · If a thunder storm should occur while using the battery charger and AC plug cord, unplug the AC plug cord and discontinue use. Continuing to use the product can cause damage to the equipment, fire, or electric shock. · Wipe off the plug of the AC plug cord if it becomes covered with dust. Dust on the plug may cause a fire. 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 plug or unplug the power cord with wet hands. This can cause an electric shock. · Do not drop the product, or subject it to violent impact. This can cause equipment breakdown. · Do not use the battery charger to charge a battery other than a rechargeable lithium-ion battery D-LI106.

Attempting to charge other types of batteries may cause an explosion, or heating, or may damage the battery charger. · To reduce the risk of hazards, use only a CSA/UL certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent. About the Battery Warning · Be sure to store the battery out of the reach of small children.



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Placing it in their mouths may cause an electric shock.

· 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. 3 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, wash the affected areas thoroughly with water. · Precautions for D-LI106 Battery Usage: BATTERY MAY EXPLODE OR FIRE IF MISTREATED. - DO NOT DISASSEMBLE OR DISPOSE OF IN FIRE. - DO NOT CHARGE EXCEPT SPECIFIED CHARGING CONDITION. - DO NOT HEAT ABOVE 140°F / 60°C, OR SHORT CIRCUIT. - DO NOT CRUSH OR MODIFY. Keep the Camera and 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). Pictures and sounds 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 usage span. · 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-BC106. 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 it after temperature of the camera and surroundings are equalized. 5 · Avoid contact with garbage, mud, sand, dust, water, toxic gases, or salts. 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 tripod screw when using a tripod. · The lens on this camera is not interchangeable. The lens is not removable. Do not hold or force the extended part of the lens.

This can cause a malfunction. Cleaning Your Camera · Do not clean the product....

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..... 263 11 In this manual, the method for operating the four-way controller is shown in illustrations, such as in the ones below. 2or 4or 3or 5or The meanings of the symbols used in this Operating Manual are explained below. 1 indicates the reference page number for an explanation of the related operation.

indicates information that is useful to know. indicates precautions to be taken when operating the camera. This is the mode for capturing still pictures and recording movies. In this manual, the mode for taking still pictures is referred to as the "still picture capture mode" and the mode for recording movies is referred to as the "C mode". This is the mode for viewing still pictures and playing back movies and sounds. A mode Q mode 12 Composition of the Operating Manual This Operating Manual contains the following chapters. 1 Getting Started This chapter explains what you need to do after purchasing the camera before you start taking pictures. Be sure to read it and follow the instructions. 1 2 Common Operations This chapter explains common operations such as the functions of the buttons and how to use the menus. For more details, refer to the respective chapters below.

2 3 3 Taking Pictures This chapter explains the various ways of capturing images and how to set the relevant functions. 4 4 Playing Back and Deleting Images This chapter explains how to view still pictures and movies on the camera or on a TV screen and how to delete them from the camera. 5 5 Editing and Printing Images This chapter explains the ways of printing still pictures and how to edit them with the camera. 6 6 Recording and Playing Back Sound This chapter explains how to add sound (a voice memo) to an image, and how to play back it. 7 7 Settings This chapter explains how to set the camera-related

functions.

8 8 Viewing Images on a Computer This chapter explains how to connect the camera to a computer, and includes installation instructions and a general overview of the provided software. 9 9 Appendix This chapter deals with troubleshooting and lists the optional accessories. 13 Camera Features In addition to basic picture-taking, the X90 has a variety of shooting modes to suit different situations. This section describes how to make the most of the key features of your camera. Together with the explanations of camera operations, it will enable you to enjoy your camera to the full.

Easy-to-Navigate Capture and Playback Functions! The user-friendly design of the X90 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select the shooting mode (p.78) and choose the optimal settings for the situation, or the playback mode (p.152, p.176) and enjoy the various playback and editing functions. A guide on the display lets you check the functions available in each mode and how to use them. A shooting mode guide is displayed in the Capture Mode Palette and a playback mode guide in the Playback Mode Palette (p.79, p.152). Use the Green Mode to take pictures easily using standard settings (p.

72). 14 Perfect for Portrait Shots! The X90 comes with a "Face Detection" function that spots the faces in your shot and automatically adjusts the focus and exposure for the faces. It can detect up to 32 people per shot (*), so it will help you take perfect group shots too. It will automatically release the shutter when people are smiling, or if anyone blinked, it will tell you that so you can take the shot again until it is perfect. It also has a feature that lets you enlarge each person's face in sequence during playback so you can quickly check their facial expressions. * Up to 31 face detection frames are displayed on the monitor. Face Detection function (p.70) Modes for taking stunning pictures of people (p.83) Close-ups of people's faces for easy checking during playback (p.159) Add Various Frames to Your Pictures! When you take a picture with the X90, you can choose from a wide range of fun frames to create attractive framed shots (p.90). You can also add frames to pictures you have taken. Adjust the position of the subject in the picture or reduce or enlarge the picture size to match the frame shape and size. Now you no longer have to worry about the subject not fitting into the frame (p.185).

For decorating your pictures with a frame Display Images and Sounds (Voice Memo) in Calendar Format! With the X90, you can display recorded images by date in calendar format (p.151). This lets you quickly find the image you want to play back. 15 Advanced Movie Recording Functions The X90 has a Shake Reduction function (Movie SR) to reduce camera shake during movie recording (p.143).

You can record movies in 1280×720 pixel (16:9) HDTV format (p.142) and can enjoy viewing highquality movies on AV devices by connecting the camera using a commercially available HDMI cable (p.172). Use the camera to shoot fun-filled movies of your children or pets as a visual diary of their development (p.140). A Multitude of Functions inside the Camera for Enjoying Images without a Computer! The X90 has a variety of functions to let you enjoy playing back and editing images without having to connect the camera to your computer and transfer the images first.



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The camera is all you need to take and edit still pictures and movies (p.176). And no more worries about accidentally deleting images, because now, with the X90, you can recover them again (p.165).

Resize (p.176), Cropping (p.177) and Red-eye Compensation (p.184) can be used, while the image is displayed in the playback mode. You can divide a movie into two or select a frame from a movie to save it as a still picture (p.188). 16 Checking the Contents of the Package Camera X90 Strap O-ST92 (*) Lens cap O-LC106 (*) (Cap installed on camera) Software (CD-ROM) S-SW104 USB cable I-USB7 (*) AV cable I-AVC7 (*) Rechargeable lithium-ion battery D-LI106 (*) Battery charger D-BC106 (*) AC plug cord (*) Operating Manual (this manual) Quick Guide Items marked with an asterisk (*) are also available as optional accessories. The battery charger and AC plug cord are only sold as a set (Battery Charger Kit K-BC106). For other optional accessories, refer to "Optional Accessories" (p.253).

17 Names of Parts Front Self-timer lamp (focus assist light) b button Strap lug PC/AV terminal PC/AV HDMI terminal (Type D) Lens Back Flash (stored) Mode dial Diopter adjustment dial Shutter release button Zoom lever m button Viewfinder Display Power switch/Power lamp Strap lug 18 Bottom Connection cable cover Tripod socket Battery/card cover lock lever Battery/card cover Names of Operating Parts G button u button e-dial I button Q button Four-way controller 4 button 9/i button 3 button Refer to "Understanding the Button Functions" (p.52 - p.55) for an explanation of the function of each button. 19 Monitor Indications Display in A Mode The display shows information such as the shooting conditions in the capture mode. The display changes in the following sequence each time you press the u button: "Normal Display", "Histogram + Info", "Grid Display" and "No Info".

Normal Display 38 Histogram + Info 38 DISP 12M 200 02/02/2010 14:25 DISP DISP DISP No Info Grid Display · When the shooting mode is set to 9 (Green) mode, the monitor display is as shown on the right. You cannot change the information on the display by pressing the u button. · To take pictures using the viewfinder, switch from the monitor display to the viewfinder by pressing the G button. Press the button again to switch to the monitor display. 38 20 Normal Display in Still Picture Capture Mode 78 1 2 3 9 10 38 11 12 13 14 15 4 5 6 1/250 F3.

5 +1.0 02/02/2010 14:25 16 17 1 2 3 4 5 6 7 8 9 10 Shooting mode (p.78) Face Detection icon (p.70) D-Range Setting icon (p.130) Shake Reduction icon (p.132) Shutter speed Aperture Flash Mode (p.112) Drive Mode (p.92 - p.97) Focus Mode (p.114) Eye-Fi communication status (p.

235) 18 19 11 Digital Zoom/Intelligent Zoom icon (p.74) 12 Memory status (p.42) 13 Remaining image storage capacity 14 Battery level indicator (p.34) 15 Focus frame (p.67) 16 Date and time (p.47) 17 EV Compensation (p.76) 18 Date Imprint setting (p.136) 19 World Time setting (p.205) * 3 differs depending on the [D-Range Setting] setting in the [A Rec. Mode] menu.

P When [Highlight Correction] is set to O Q When [Shadow Correction] is set to O O When [Highlight Correction] and [Shadow Correction] are both set to O If [Highlight Correction] and [Shadow Correction] are both set to P (Off), nothing appears in 3. 21 * For 4, M appears if the shutter release button is pressed halfway when [Shake Reduction] in the [A Rec. Mode] menu is set to O (On). l appears when [Shake Reduction] is set to P (Off). * 5 and 6 always appear when the shooting mode is set to e, b, c, a, or E.

In other shooting modes, they are displayed only when the shutter release button is pressed halfway. * 10 differs depending on the communication status when using an SD Memory Card with a built-in wireless LAN (Eye-Fi card). (No indicator) Eye-Fi card is not supported MN Communicating data MO Waiting for communication MP Eye-Fi communication is not allowed MQ Version is outdated * Some indications may not appear depending on the shooting mode.

Histogram + Info/Grid Display/No Info Display in Still Picture Capture Mode A1 to A18 and B1 appear when "Histogram + Info" is selected. Only B1 appears when "Grid Display" or "No Info" is selected.

A5 A6 A7 A8 A9 A10 A1 A2 A3 B1 A4 B2 B3 200 1/250 F3.5 +1.0 38 12M A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 22 Shooting mode (p.78) Face Detection icon (p.70) D-Range Setting icon (p.130) Shake Reduction icon (p.132) Flash Mode (p.112) Drive Mode (p.92 - p.97) Focus Mode (p.

114) Eye-Fi communication status (p.235) A9 Digital Zoom/ Intelligent Zoom icon (p.74) A10 Memory status (p.42) A11 Remaining image storage capacity A1 A2 A3 A4 A5 A6 A7 A8 A12 Battery level indicator (p.34) A13 Recorded Pixels (p.121) A14 Quality Level (p.123) A15 White Balance (p.124) A16 AE Metering (p.128) A17 Sensitivity (p.126) A18 Histogram (p.

26) A19 EV Compensation (p.76) A20 Date Imprint setting (p.136) B1 Focus frame (p.67) B2 Shutter speed B3 Aperture * A3 differs depending on the [D-Range Setting] setting in the [A Rec. Mode] menu.

P When [Highlight Correction] is set to O Q When [Shadow Correction] is set to O O When [Highlight Correction] and [Shadow Correction] are both set to O If [Highlight Correction] and [Shadow Correction] are both set to P (Off), nothing appears in A3. * For A4, M appears if the shutter release button is pressed halfway when [Shake Reduction] in the [A Rec. Mode] menu is set to O (On). l appears when [Shake Reduction] is set to P (Off). * A8 differs depending on the communication status when using an SD Memory Card with a built-in wireless LAN (Eye-Fi card).

(No indicator) Eye-Fi card is not supported MN Communicating data MO Waiting for communication MP Eye-Fi communication is not allowed MQ Version is outdated * B2 and B3 always appear when the shooting mode is set to e, b, c, a, or E. In other shooting modes, they are displayed only when the shutter release button is pressed halfway. 23 * When the shooting mode is I (Auto Picture) and if you press the shutter release button halfway, the automatically selected shooting mode appears in A1 even when "Grid Display" or "No Info" is selected (p.66). * Some indications may not appear depending on the shooting mode. Display in Q Mode The display shows the shooting information of the image in the playback mode. The display changes in the following sequence each time you press the u button: "Normal Display", "Histogram + Info" and "No Info". Normal Display 100 - 0038 Edit 02/02/2010 14:25 DISP Histogram + Info 100 - 0038 12M DISP 200 1/250 F3.5 02/02/2010 14:25 Edit DISP No Info Edit 24 Normal Display/Histogram + Info Display in Playback Mode (All items are displayed here for explanatory purposes.



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*battery correctly. If the battery is incorrectly oriented, malfunction may result. · Do not remove the battery while the camera is turned on.
· When storing the battery for more than 6 months, charge the battery for 30 minutes using the battery charger and store the battery separately. Be sure to
recharge the battery every 6 to 12 months.*



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Storing the battery at or below room temperature is ideal. Avoid storing it in high temperatures. · The date and time may be returned to the default setting if the camera is left without the battery for a long time. · Be careful as the camera or the battery may become hot when the camera is used continuously for a long period of time. 33 · Image Storage Capacity, Movie Recording Time, and Playback Time (at 23°C with the display on and the battery fully charged) 1 Getting Started 34 Image Storage Capacity*1 (flash used for 50% of shots) Approx. 255 pictures Movie Recording Time*2 Approx. 100 min. Playback Time*2 Approx.

360 min. *1 Image storage capacity shows the approximate number of shots recorded during CIPA-compliant testing (with display on, flash used for 50% of the shots, and 23 degrees centigrade). *2 According to the result of in-house testing. Actual performance may vary according to operating conditions. · In general, battery performance may temporarily deteriorate as the temperature decreases. · Be sure to take a spare battery with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures. · Battery Level Indicator You can check the battery level by the indicator on the display. Screen Display Battery Status Adequate power remains. Battery is running low. Battery is running very low.

Battery is exhausted. The camera will turn off after this message appears. w x y z (green) (green) (yellow) (red) [Battery depleted] Using the AC Adapter Use of the optional AC adapter kit (K-AC106) is recommended if you intend to use the camera for a long time or connect it to a computer. 1 Getting Started 4 8 AC plug cord 7 DC terminal 3 6 1 DC coupler AC adapter 1 2 3 4 5 Make sure that the camera is turned off and open the battery/card cover. Remove the battery.

Refer to p.32 - p.33 on how to open/close the battery/card cover and remove the battery. Insert the DC coupler while holding down the battery lock lever (1). Confirm the DC coupler is locked in place.

Extract the DC coupler cord. Pull open the connection cable cover (2) which is next to the battery/ card cover, and pull out the cord from the DC coupler. Close the battery/card cover. 35 6 1 Getting Started 36 Connect the DC terminal of the AC adapter to the DC terminal of the DC coupler. Connect the AC plug cord to the AC adapter. Plug the AC plug cord into the power outlet. · Make sure that the camera is turned off before connecting or disconnecting the AC adapter. · Make sure that the AC plug cord and the power cord connecting the AC adapter to the camera are inserted securely. The data may be lost if either becomes disconnected while data is being recorded on the SD Memory Card or the built-in memory. · Use the AC adapter with due care to avoid fire or electric shock.

Be sure to read "About the Battery Charger and the AC Adapter" (p.2) before using the AC adapter. · Be sure to read the operation manual accompanying the AC adapter kit K-AC106 before using the adapter. 7 8 Installing 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.) Captured images are saved on the SD Memory Card if a card is inserted in the camera. They are saved in the built-in memory if a card is not inserted (p.42). · Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been used on other cameras or digital devices. Refer to "Formatting an SD Memory Card" (p.

200) for instructions on formatting. · Make sure that the camera is turned off before inserting or removing the SD Memory Card. · The still picture storage capacity varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels and quality level (p.40). · The power lamp blinks while the SD Memory Card is being accessed (data is being recorded or read).

1 Getting Started Backing Up Data The camera may not be able to access data in the built-in memory in the case of a malfunction. Use a computer or other device to back up important data in another location. 37 1 Getting Started Battery/card cover Battery/card cover lock lever SD Memory Card 1 2 Open the battery/card cover. Slide the battery/card cover lock lever in the direction of the arrow to open the cover (1). Insert the SD Memory Card into the SD Memory Card socket so that the label is facing toward the front of the camera (the side with the lens).

Push the card in all the way. Data may not be recorded correctly if the card is not inserted all the way. 3 Close the battery/card cover. After closing the battery/card cover, slide the battery/card cover lock lever in the opposite direction of 1. To Remove the SD Memory Card 1 2 38 Open the battery/card cover.

Push the card into the SD Memory Card socket to eject it. Pull the card out. Precautions When Using an SD Memory Card · The SD Memory Card is equipped with a writeprotect switch. Setting the switch to LOCK prevents new data from being recorded on the card, the stored data from being deleted, and Write-protect the card from being formatted by the camera or switch computer. r appears on the display when the card is write-protected.

· Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot. · Keep the cover closed and do not remove the SD Memory Card or turn the camera off while the data is being played back or saved to the card, or the camera is connected to a computer with the USB cable, as this may cause the data to be lost or the card to be damaged. · Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperature. · Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable. · The data on the SD Memory Card may be deleted in the following circumstances. We do not accept any liability for data that is deleted (1) when the SD Memory Card is mishandled by the user. (2) when the SD Memory Card is exposed to static electricity or electrical interference. (3) when the SD Memory Card has not been used for a long time. (4) when the SD Memory Card is ejected or the battery is removed while the data on the card is being recorded or accessed.

· If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer. · Avoid using or storing the card where it may be exposed to static electricity or electrical interference. · Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation. · When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time.



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· Be sure to format SD Memory Cards that are unused or have been used on another camera. Refer to "Formatting an SD Memory Card" (p.200). 1 Getting Started 39 Number of Images Recordable on an SD Memory Card 1 Getting Started 40 The file size of the recorded images differs depending on the number of recorded pixels of the images, so the number of images that can be saved on an SD Memory Card also differs. Choose the appropriate number of recorded pixels for still pictures on the [A Rec.

Mode] menu. Selecting the Recorded Pixels 1p.121 Choose the appropriate number of recorded pixels and frame rate in [Movie] on the [A Rec. Mode] menu. Selecting the Recorded Pixels and Frame Rate for Movies 1p.142 For an approximate guide to the number of images or the length of recorded movies that can be saved on an SD Memory Card, see "Main Specifications" (p.254). Turning the Camera On and Off 1 Getting Started Power switch 1 2 Remove the lens cap. Press the power switch. The camera turns on and the display turns on.

When you turn the camera on, the lens will extend. (The lens will not extend if the initial settings have not been configured.) If the [Language/u] screen or [Date Adjustment] screen appears when you turn the camera on, follow the procedure on p.43 or p.47 to set the display language and/or current date and time. 3 Press the power switch again. The display turns off, the lens is retracted, and the camera turns off. Taking Still Pictures 1p.66 41 Checking the SD Memory Card The SD Memory Card is checked when the camera turns on and the memory status is displayed. Memory status 38 1 Getting Started 42 a + r The SD Memory Card is inserted.

Images and sounds will be saved on the SD Memory Card. The SD Memory Card is not inserted. Images and sounds will be saved in the built-in memory. The write-protect switch on the SD Memory Card is in the LOCK position (p.39).

Images and sounds cannot be recorded. 02/02/2010 14:25 Starting-up in the Playback Mode If you want to play back images straightaway without taking any pictures, you can start up the camera in the playback mode. Q button Power switch 1 Press the power switch while holding down the Q button. The display turns on with the lens retracted and the camera turns on in the playback mode. To switch from the playback mode to the A mode, press the Q button or press the shutter release button halfway.

Playing Back Still Pictures 1p.148 Initial Settings The [Language/u] screen appears when the camera is turned on for the first time. Perform the operations in "Setting the Display Language" below to set the language, and in "Setting the Date and Time" (p.47) to set the current date and time. The language, date, and time can be changed later. Refer to the pages below for instructions. · To change the language, follow the steps in "Changing the Display Language" (1p.208). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.202).

1 Getting Started Setting the Display Language Four-way controller 4 button 3 button 1 Use the four-way controller (2345) to choose the display language. English Dansk Deutsch Svenska Suomi Polski Italiano Nederlands Magyar MENU Cancel OK OK 43 2 1 Getting Started 44 Press the 4 button. The [Initial Setting] screen appears in the selected language. If the desired settings for [Hometown] and [DST] (Daylight Saving Time) appear, proceed to Step 3. Proceed to "To Set Hometown and DST" (p.46) if the desired settings do not appear. Initial Setting English Hometown New York Settings complete MENU Cancel DST OFF Daylight saving time 3 Press the four-way controller (3) twice to select [Settings complete]. Initial Setting English Hometown New York Settings complete MENU Cancel OK DST OFF OK 4 Press the 4 button. The [Date Adjustment] screen appears. Set the date and time by following the procedure in "Setting the Date and Time" (p.

47). If you accidentally select the wrong language and proceed to the next procedure, perform the following operation to set the desired language. When the Wrong Language Has Been Inadvertently Selected 1 2 Press the four-way controller (5). Use the four-way controller (2345) to select the desired language and press the 4 button. The [Initial Setting] screen appears in the selected language.

When the Screen After Step 2 Appears in the Wrong Language 1 Getting Started 1 2 3 4 5 6 Press the 3 button. Press the four-way controller (5). Use the four-way controller (32) to select [Language/ u]. Press the four-way controller (5). The [Language/u] screen appears.

Use the four-way controller (2345) to select the desired language. Press the 4 button. The [W Setting] menu appears in the selected language. The language is now switched to your desired language. To reset [Hometown], [Date] and [Time], refer to the pages below for instructions. · To change [Hometown], follow the steps in "Setting the World Time" (1p.205). · To change the [Date] and [Time], follow the steps in "Changing the Date and Time" (1p.202). 45 To Set Hometown and DST 3 1 Press the four-way controller (3).

The frame moves to [W Hometown]. 4 Press the four-way controller (5). The [W Hometown] screen appears. 46 Getting Started Initial Setting English Hometown New York Settings complete MENU Cancel DST OFF 5 Use the four-way controller (45) to choose a city. Hometown City DST New York OK MENU Cancel OK 6 7 8 9 Press the four-way controller (3). The frame moves to [DST] (Daylight Saving Time). Use the four-way controller (45) to select O or P. Press the 4 button. The [Initial Setting] screen reappears. Press the four-way controller (3) to select [Settings complete].

Initial Setting English Hometown New York Settings complete MENU Cancel OK DST OFF OK 10 Press the 4 button. The [Date Adjustment] screen appears. Next, set the date and time. The video output format (NTSC/PAL) is set to the format of the city selected in [Hometown] on the [Initial Setting] screen. Refer to "List of World Time Cities" (p.

252) for the video output format of each city that will be set at the time of initial setting, and "To Select the Video Output Format" (p.171) for changing the video output format. 1 Getting Started Setting the Date and Time Set the current date and time and the display style. 1 2 Press the four-way controller (5). The frame moves to [mm/dd/yy].

Use the four-way controller (23) to choose the date format. Choose from [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd]. Date Adjustment Date Format Date Time MENU Cancel mm/dd/yy 24h 01/01/2010 00:00 Settings complete 3 4 Press the four-way controller (5). The frame moves to [24h]. Use the four-way controller (23) to select [24h] (24-hour display) or [12h] (12-hour display).



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Date Adjustment Date Format Date Time MENU Cancel mm/dd/yy 24h 01/01/2010 00:00 Settings complete 47 5 1 Getting Started 48 Press the four-way controller (5). The frame returns to [Date Format]. 6 Press the four-way controller (3). The frame moves to [Date]. Date Adjustment Date Format Date Time MENU Cancel mm/dd/yy 24h 01/01/2010 00:00 Settings complete 7 8 Press the four-way controller (5).

The frame moves to the month. Use the four-way controller (23) to change the month. Change the day and year in the same manner. Next, change the time. If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time. Date Adjustment Date Format Date Time MENU Cancel mm/dd/yy 24h 01/01/2010 00:00 Settings complete 9 Press the four-way controller (3) to select [Settings complete]. Date Adjustment Date Format Date Time MENU Cancel mm/dd/yy 24h 01/01/2010 00:00 Settings complete OK OK 10 Press the 4 button. This confirms the date and time. If you press the 4 button in Step 10, the camera clock is reset to 00 seconds. To set the exact time, press the 4 button when the time signal (on the TV, radio, etc.

) reaches 00 seconds. When the [Initial Setting] or [Date Adjustment] screen is displayed, you can cancel the settings made up to that point and switch to the capture mode by pressing the 3 button. In this case, the [Initial Setting] screen will appear again the next time you turn the camera on. [Language/u], [Date], [Time], [Hometown] and [DST] can be changed. Refer to the pages below for instructions.

· To change the language, follow the steps in "Changing the Display Language" (Ip.208). · To change the date and time, follow the steps in "Changing the Date and Time" (Ip.202). · To change the city or DST setting, follow the steps in "Setting the World Time" (Ip.

205). 1 Getting Started 49 Adjusting the Viewfinder Diopter Adjust the viewfinder to suit your eyesight. If it is difficult to see the viewfinder image clearly, turn the diopter adjustment dial up or down. 1 Getting Started 50 1 2 Press the G button and switch to the viewfinder. Look through the viewfinder and turn the diopter adjustment dial up or down. Adjust the dial until the image in the viewfinder appears clearly focused. Point the camera at a white wall or other bright and consistent surface. 2 Common Operations Understanding the Button Functions ...

.. 52 Setting the Camera Functions

.....

.... 57 Understanding the Button Functions A Mode 2 Common Operations 3 4 5 6 7 8 9 1 2 0 a b c 1 2 3 b button The flash pops up.

G button Switches between the viewfinder and the monitor display. m button Sets the EV compensation value, shutter speed, and the aperture value. 4 5 Zoom lever Changes the captured area (p.74). Shutter release button Focuses the camera on the subject when pressed halfway in still picture capture mode (except when s (Infinity) or \ is selected as the focus mode). Takes a still picture when pressed down fully (p.68). Starts and stops movie recording in C (Movie) mode (p.140). 52 6 7 Power switch Turns the camera on and off (p.

41). e-dial Changes the EV compensation value, shutter speed, and aperture value. 8 I (Face) button Switches the Face Detection function (p.70). The Face Detection function is switched as follows each time the I button is pressed: Smile Capture Face Detection Off Face Detection On 2 Common Operations 9 0 Q button Switches to the Q mode (p.56). Four-way controller 2 3 4 5 23 Changes the drive mode (p.92 - p.97). Displays the Capture Mode Palette when the mode dial is set to H (p.

79). Changes the flash mode (p.112). Changes the focus mode (p.114).

Adjusts the focus when the focus mode is set to \ (p.115). a 9(Green) button Switches to the 9 (Green) mode (p.72). Calls up the assigned function when set to [Fn Setting] (p.

137). b c 3 button Displays the [A Rec. Mode] menu (p.57). u button Changes the information on the display (p.20). 53 Q Mode 3 2 Common Operations 4 5 6 7 1 2 8 9 0 1 2 u button Changes the information on the display (p.24). 3 button Displays the [W Setting] menu during single-image display (p.57).

Returns to single-image display during Playback Mode Palette display. Returns to single-image display during four-/nine-image display or zoom display. Switches from folder/calendar display to nine-image display with the cursor placed on the most recent image. 3 4 5 Shutter release button Switches to A mode (p.56). Power switch Turns the camera on and off (p.41). e-dial Turn to the left (f) during single-image display to change to four-image display. Changes to nine-image display when turned to the left again. Returns to the previous display when turned to the right (y) (p.

150). Enlarges the image when turned to the right (y) during single-image display. Returns to the previous display when turned to the left (f) (p.158). Turn to the left (f) during nine-image display to change to folder or calendar display (p.

151). 54 Turn to the right (y) during folder/calendar display to change to nineimage display (p.151). Adjusts the volume during playback of movies or voice memos (p.149, p.

197). 6 I (Face) button Zooms in on the subjects' faces in a face-detected image in the order the faces were detected when the picture was taken. (Face close-up playback) (p.159). 2 Common Operations 7 8 Q button Switches to A mode (p.56). Four-way controller Plays back and pauses a movie or voice memo (p.149, p.197). 3 Displays the Playback Mode Palette (p.

154). Stops a movie or voice memo during playback (p.149, p.197). 45 Displays the previous or next image during single-image display (p.148). Fast-forwards, fast-reverses, frame forwards, frame reverses, reverses a movie and makes a movie play forwards during playback (p.149). 2345 Selects an image during four-/nine-image display, a folder during folder display, and a date during calendar display (p.150, p.

151). Moves the display area during zoom display (p.158). Moves the image when using the Frame Composite function (p.186).

2 9 9(Green)/i (Delete) button Switches from single-image display to the Delete screen (p.161). Switches from four-/nine-image display to the Select & Delete screen (p.162). Switches from folder display to the calendar display screen (p.

151). Switches from calendar display to the folder display screen (p.151). 0 4 button Returns to single-image display during four-/nine-image display or zoom display (p.150, p.158). Changes to nine-image display of the selected folder during folder display (p.151). Changes to single-image display of the selected date during calendar display (p.151).

55 Switching Between A Mode and Q Mode In this manual, the capture mode, such as for taking still pictures, is referred to as "A mode" (the capture mode). The playback mode, such as for displaying captured images on the monitor, is referred to as "Q mode" (the playback mode).



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In Q mode, you can perform simple editing operations on the images that are played back. Follow the procedure below to switch between A mode and Q mode. To Switch from A Mode to Q Mode 2 Common Operations 56 1 1 Press the Q button. The camera switches to Q mode. To Switch from Q Mode to A Mode Press the Q button or the shutter release button halfway. The camera switches to A mode. Displaying the data stored in the built-in memory When an SD Memory Card is inserted in the camera, images and movies on the SD Memory Card are displayed. If you want to display images and movies in the built-in memory, turn the camera off and remove the SD Memory Card, or follow the procedure below to use the "Built-in memory display" function.

Make sure that the camera is turned off before inserting or removing the SD Memory Card. Viewing images in the built-in memory while the SD Memory Card is inserted (built-in memory display) - When you press and hold down the Q button for more than one second in A mode, the lens is retracted. After the message [Displays image/sound from built-in memory] appears, images and movies stored in the built-in memory are displayed. - In the built-in memory display, you can play back still pictures (including enlarged display) (p.148, p.

158) or movies (p.149) and switch between four/nine-image display, folder display and calendar display (p.150). - In the built-in memory display, you cannot delete data, delete a selection, display the Playback Mode Palette or display the menu. If you want to perform any of these operations on images, movies or sounds in the built-in memory, do so after removing the SD Memory Card.

Setting the Camera Functions To change the camera settings, press the 3 button to display the [A Rec. Mode] menu or [W Setting] menu. Menus for playing back and/or editing images and sounds are called up from the Playback Mode Palette. 2 Operating the Menus Press the 3 button in A mode to display the [A Rec. Mode] menu. Press the 3 button in Q mode to display the [W Setting] menu. Use the four-way controller (45) to switch between [A Rec. Mode] menu and [W Setting] menu. Common Operations 57 During recording 38 During playback 100-0038 100 0038 02/02/2010 14:25 2 MENU Edit 02/02/2010 14:25 MENU 58 Common Operations SHUTTER Rec. Mode Image Tone Recorded Pixels Quality Level White Balance Sensitivity ISO Corction in AUTO MENU Exit 1/4 Bright 12M AWB AUTO ISO80-400 Setting 1/4 Save as USER Sound Date Adjustment 02/02/2010 World Time English Date Folder Name MENU Exit Rec.

Mode Image Tone Recorded Pixels Quality Level White Balance Sensitivity ISO Corction in AUTO MENU Exit 1/4 Bright 12M AWB AUTO ISO80-400 Setting 1/4 Save as USER Sound Date Adjustment 02/02/2010 World Time English Date Folder Name MENU Exit MENU or Press halfway The setting is complete and the camera returns to A mode. 38 100-0038 100 0038 02/02/2010 14:25 Edit 02/02/2010 14:25 The setting is complete and the camera returns to Q mode. Available button/key operations appear on the display during menu operation (p.26). Ex.) To set [Quality Level] on the [A Rec. Mode] menu 1 2 Press the 3 button in A mode. The [A Rec. Mode] menu appears. Press the four-way controller (3).

The frame moves to [Image Tone]. Rec. Mode Image Tone Recorded Pixels Quality Level White Balance Sensitivity ISO Corction in AUTO MENU Exit 1/4 Bright 12M AWB AUTO ISO80-400 2 Common Operations 3 4 Press the four-way controller (3) twice. The frame moves to [Quality Level]. Press the four-way controller (5).

A pull-down menu appears with the items that can be selected. The pull-down menu displays only those items that can be selected with the current camera settings. Rec. Mode Image Tone Recorded Pixels Quality Level White Balance Sensitivity ISO Corction in AUTO MENU Exit 1/4 Bright 12M AWB AUTO ISO80-400 5 Use the four-way controller (23) to change the setting. The quality level changes each time the four-way controller (23) is pressed.

Recordable Image No. 12 Bright Image Tone Recorded Pixels 12M Quality Level White Balance Sensitivity ISO Corction in AUTO ISO80-400 MENU Cancel OK OK 6 Press the 4 button or the four-way controller (4). The setting is saved and then the camera is ready for setting the other functions. To exit the setting operation, press the 3 button. To use another operation, refer to the following alternate Step 6 options. 59 To Save the Setting and Start Taking Pictures 6 Press the shutter release button halfway. The setting is saved and the camera returns to capture status. When the shutter release button is pressed fully, the picture is taken. 2 Common Operations 60 When the [W Setting] menu is displayed from Q mode, you can switch to A mode by pressing the Q button. To Save the Setting and Start Playback of Images 6 Press the Q button.

When the [A Rec. Mode] menu is displayed from A mode, the setting is saved and the camera returns to playback status. To Cancel the Changes and Continue with Menu Operations 6 Press the 3 button. The changes are canceled and the screen shown in Step 3 reappears. The 3 button function differs depending on the screen. Refer to the guide indications. MENU Exit MENU MENU Cancel Exits the menu and returns to the original screen. Returns to the previous screen with the current setting. Cancels the current selection, exits the menu and returns to the previous screen. Menu List This displays the items that can be set with the menus and provides descriptions of each item.

See the list of default settings in the Appendix "Default Settings" (p.247) to check whether the settings are saved when the camera is turned off and whether the settings return to the defaults when the camera is reset. [A Rec. Mode] Menu This menu shows the functions related to taking still pictures and recording movies. Description For setting the tone of still pictures For choosing the number of recorded pixels of still pictures For setting the quality level of still pictures For adjusting the color balance according to the lighting White Balance conditions Sensitivity For setting the sensitivity ISO Corction in For setting the adjustment range when sensitivity is set to AUTO AUTO Focusing Area For setting the area of the autofocus Auto Macro For adjusting the focus up to the macro range if necessary For discharging an assist light when the subject is in a dark Focus Assist area and the autofocus system does not operate correctly For choosing the area of the screen that is metered to AE Metering determine the exposure Flash Exp.

Comp. For adjusting the flash output Recorded For choosing the number of recorded pixels and frame rate Pixels of movies For choosing whether or not to use the movie shake Movie SR reduction function Highlight For adjusting the bright areas when the image is too bright Correction AF Setting Movie D-Range Setting Shadow Correction For adjusting the dark areas when the image is too dark p.



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