Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX OPTIO P80 BLACK OPTIO P80. You'll find the answers to all your questions on the PENTAX OPTIO P80 BLACK OPTIO P80 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PENTAX OPTIO P80 BLACK OPTIO P80
User guide PENTAX OPTIO P80 BLACK OPTIO P80
Operating instructions PENTAX OPTIO P80 BLACK OPTIO P80
Instructions for use PENTAX OPTIO P80 BLACK OPTIO P80
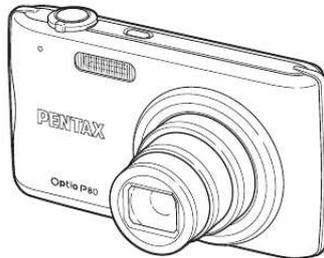**Instruction manual PENTAX OPTIO P80 BLACK OPTIO P80**

PENTAX EN

Digital Camera
Optio P80
Operating Manual

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

Manual abstract:

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@@· 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 "Connecting to a Computer" (p.205) 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. 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 loss of property. 1 About the Camera Warning · Do not disassemble or modify the camera. High voltage areas are present inside the camera, with the risk of electric shock. · If the camera interior is exposed due to dropping or otherwise damaging the camera, never touch the exposed portion. There is a risk of electric shock.

· Wrapping the strap around your neck is dangerous. Take care that small children do not hang the strap around their necks. · 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. 2 · 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. · 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, 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-LI88. 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. 3 About the Battery Warning · Be sure to store the battery out of the reach of small children. 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. 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. · The battery should be inserted correctly, observing (+) and (-) marks on the battery and the camera. Inserting the battery incorrectly may cause an explosion or fire. · 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-LI88 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.

About the SD Memory Card Warning · To avoid the risk of SD Memory Cards from being swallowed by mistake, keep them out of the reach of small children. Seek medical attention immediately if an SD Memory Card is accidentally swallowed. 4 Care to be Taken During Handling Before Using Your Camera · When traveling, take the Worldwide Service Network that is included in the package. This will be useful if you experience problems abroad. · When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or when traveling).

Pictures and sound 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-BC88. 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 dry any rain or water drops on the camera. · Please do not press forcefully on the monitor. This could cause it to break or malfunction. · Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the display. · 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. 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 or viewfinder. Never use a spray blower for cleaning as it may damage the lens.

Storing Your Camera · Do not store the camera with preservatives or chemicals. Storage in high temperatures and high humidity can cause mold to grow on the camera. Remove the camera from its case and store it i...

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 sound files.

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 images from the camera. 5 5 Editing and Printing Images This chapter explains the various ways of printing still pictures and how to edit images with the camera. 6 6 Recording and Playing Back Sound This chapter explains how to record sound files or add sound (a voice memo) to an image, and how to play back them. 7 7 Settings This chapter explains how to set the camera-related functions. 8 8 Connecting to 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 Optio P80 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 Recording and Playback! You can also hold it vertically to take pictures as if it was a cellphone. Even the buttons work like those on a cellphone, making picture taking a breeze. The Optio P80 also makes it easy for you to collect your favorite shots and show them to your friends. Cellphone-like picture taking (p.80) Storage and simple playback of favorite shots (p.139) Easy-to-Navigate Capture and Playback Functions! The user-friendly design of the Optio P80 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select the shooting mode (p.69) and choose the optimal settings for the situation, or the playback mode (p.134, p.158) 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.69, p.134). Use the Green Mode to take pictures easily using standard settings (p.76). 14 Perfect for Portrait Shots! The Optio P80 comes with a "Face Recognition" function that spots the faces in your shot and automatically adjusts the focus and exposure for the faces. It can recognize 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 recognition frames (up to 30 frames in Half-length Portrait mode) are displayed on the monitor. Face Recognition function (p.72) Modes for taking stunning pictures of people (p.84) Close-ups of people's faces for easy checking during playback (p.144) Add Various Frames to Your Pictures! When you take a picture with the Optio P80, you can choose from a wide range of fun frames to create attractive framed shots (p.91). 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.167).

For decorating your pictures with a frame Display Images and Sound Files in Calendar Format! With the Optio P80, you can display recorded images and sound files by date in calendar format (p.133). This lets you quickly find the image or sound file you want to play back. 15 Advanced Movie Recording Functions The Optio P80 has a shake reduction function (Movie SR) to reduce camera shake during movie recording (p.126). And it enables you to record

*movies in 1280×720 pixel (16:9) HDTV format (*) (p.125). * When connecting to and playing back images on AV equipment, image data is output at normal screen resolution.*

To view movies in HDTV, transfer the data to a computer and play it back on the computer. Use the camera to shoot fun-filled movies of your children or pets as a visual diary of their development (p.

123). A Multitude of Functions Inside the Camera for Enjoying Images Without a Computer! The Optio P80 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. The camera is all you need to take and edit still pictures and movies (p.158). And no more worries about accidentally deleting images, because now, with the Optio P80, you can recover them again (p. 151). Resize (p.158), Cropping (p.159) and Red-eye Compensation (p.166) 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.170). 16 Checking the Contents of the Package Camera Optio P80 Strap O-ST51 (*) Software (CD-ROM) S-SW87 USB cable I-USB7 (*) AV cable I-AVC7 (*) Rechargeable lithium-ion battery D-LI88 (*) Battery charger D-BC88 (*) AC plug cord Quick Guide Operating Manual (this manual) 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-BC88). For other optional accessories, refer to "Optional Accessories" (p.240). 17 Names of Parts Front Self-timer lamp Flash Lens Microphone Speaker Tripod socket PC/AV terminal Battery/card cover Back Power switch Shutter release button Strap lug Display 18 Names of Operating Parts Power switch Zoom lever Shutter release button I button Q button Four-way controller 4/W button 3 button Green/i 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 4/W button: "Normal Display", "Histogram + Info" and "No Info". Normal Display 38 Histogram + Info 38 OK 12M 200 08/08/2009 14:25 OK OK No Info 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 4/W button (p.76). 38 20 Normal Display in Still Picture Capture Mode 78 1 2 3 9 38 10 11 12 13 14 4 5 6 1/250 F3.5 +1.0 08/08/2009 14:25 15 16 17 18 1 Shooting mode (p.69) 2 Face Priority icon (p.72) 3 D-Range Setting (p.109) 4 Camera shake warning (p.

116) 5 Shutter speed 6 Aperture 7 Flash Mode (p.101) 8 Drive Mode (p.93, p.94) 9 Focus Mode (p.103) 10 Digital Zoom/Intelligent Zoom icon (p. 78) 11 Memory status (p.41) 12 Remaining image storage capacity 13 Battery level indicator (p.34) 14 Focus frame (p.66) 15 Date and time (p.47) 16 EV Compensation (p.

108) 17 Date Imprint setting (p.120) 18 World Time setting (p.193) * 3 depends 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 set to O If [Highlight Correction] and [Shadow Correction] are both set to P (Off), nothing appears in 3. 21 * 4 varies depending on the following conditions. f When the shutter release button is pressed halfway with the [Pixel Track SR] in the [A Rec. Mode] menu set to P (Off) and camera shake is likely to occur M When [Pixel Track SR] is set to O * 5 and 6 appear only when the shutter release button is pressed halfway. * For 9, when the focus mode is set to = and the Auto-Macro function is activated, the q appears on the display (p.103).

* Some indications may not appear depending on the shooting mode. Histogram + Info/No Info Display in Still Picture Capture Mode A1 to A18 and B1 appear when "Histogram + Info" is selected. Only B1 appears when "No Info" is selected. A5 A6 A7 A1 A2 A3 B1 A4 B2 B3 A8 A9 38 12M 200 1/250 F3.5 A10 A11 A12 A13 A14 A15 A16 +1.0 +1.0 A17 A18 22 A1 A2 A3 A4 A5 A6 A7 A8 Shooting mode (p.69) Face Priority icon (p.72) D-Range Setting (p.109) Camera shake warning (p.

116) Flash Mode (p.101) Drive Mode (p.93, p.94) Focus Mode (p.103) Digital Zoom/ Intelligent Zoom icon (p. 78) A9 Memory status (p.41) A10 Remaining image storage capacity A11 Battery level indicator (p.34) A12 Recorded Pixels (p.106) A13 White Balance (p.110) A14 AE Metering (p.

112) A15 Sensitivity (p.114) A16 Histogram (p.26) A17 EV Compensation (p.108) A18 Date Imprint setting (p.120) B1 Focus frame (p.66) B2 Shutter speed B3 Aperture * A3 depends 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 set to O If [Highlight Correction] and [Shadow Correction] are both set to P (Off), nothing appears in A3. * A4 varies depending on the following conditions. f When the shutter release button is pressed halfway with the [Pixel Track SR] in the [A Rec.

Mode] menu set to P (Off) and camera shake is likely to occur M When [Pixel Track SR] is set to O * B2 and B3 appear only when the shutter release button is pressed halfway. * When the shooting mode is b (Auto Picture) and if you press the shutter release button halfway, the automatically selected shooting mode appears in A1 even when "No Info" is selected (p.74). * Some indications may not appear depending on the shooting mode. 23 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 4/W button: "Normal Display", "Histogram + Info" and "No Info". Normal Display 100 - 0038 Edit 08/08/2009 14:25 OK Histogram + Info 100 - 0038 OK 12M 200 1/250 F3.5 Edit 08/08/2009 14:25 OK No Info Edit 24 Normal Display/Histogram + Info Display in Playback Mode (All of the display items are displayed here for explanatory purposes.) The display shows information such as the shooting conditions. A1 to A11 appear when "Normal Display" or "Histogram + Info" is selected.

B1 to B7 appear only when "Histogram + Info" is selected. A3 A2 A1 B1 B2 B3 B4 B5 B6 A4 A5 100 - 0038 A6 A7 A8 A9 12M 200 1/250 F3.5 B7 Edit 08/08/2009 14:25 A10 A11 A1 Face Priority icon (p.72) A2 Playback mode Q : Still Picture (p.130) K : Movie (p.

131) L : Sound (p.182) A3 Protect icon (p.152) A4 Voice memo icon (p.185) A5 Memory status (p.41) A6 Folder number (p. 196) A7 File number A8 Battery level indicator (p.34) A9 Volume icon A10 Captured date and time (p.47) A11 Four-way controller guide B1 Recorded Pixels (p.106) B2 White Balance (p.

110) B3 AE Metering (p.112) B4 Sensitivity (p.114) B5 Shutter speed B6 Aperture B7 Histogram (p.26) * A1 appears only if the Face Recognition function worked when the image was shot. * In "Normal Display", A8 and A10 disappear if no operation is performed for two seconds. * A9 appears only when the volume is being adjusted during playback of movies, sound files or voice memo (p.

131, p.182, p.185). * A11 appears even when "No Info" is selected, but disappears if no operation is performed for two seconds. When no operation is performed for two seconds in "Normal Display" or "Histogram + Info", only "Edit" disappears. 25 Guide Indications A guide for each available button operation appears as follows on the display during operation. 2 3 4 5 MENU Four-way controller (2) Four-way controller (3) Four-way controller (4) Four-way controller (5) 3 button Zoom lever OK SHUTTER 4/W button Shutter release button Green/i button I button X, i I, J 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 of the histogram (Dark) Brightness (Bright) before and after shooting tells you whether the brightness and contrast are correct or not, and lets you decide if you need to use EV compensation and take the picture again. Setting the Exposure (EV Compensation) 1p.

108 Number of pixels Understanding Brightness If the brightness is correct, the graph peaks in the middle. If the image is too dark, the peak is on the left side, and if it is too bright, the peak is on the right side. Dark image Correct image Bright image 26 When the image is too dark, the part to the left is cut off (dark portions) and when the image is too bright, the part to the right is cut off (bright portions). Understanding Contrast The graph peaks gradually for images in which contrast is balanced. The graph peaks on both sides but sinks in the middle for images with a large difference in contrast and low amounts of mid-level brightness.

Attaching the Strap Attach the strap (O-ST51) supplied with the camera. 1 Getting Started 1 2 1 2 Pass the narrow end of the strap through the strap lug. Pass the other end of the strap through the loop and pull tight. 30 Powering the Camera Charging the Battery Use the supplied battery charger (D-BC88) to charge the supplied rechargeable lithium-ion battery (D-LI88) before using it in the camera for the first time or after a long period of non-use, or when the [Battery depleted] message appears. Note: AC plug cord "Listed, Type SPT-2 or NISPT-2, 18/2 flexible cord, rated 125 V, 7A, minimum 6 ft (1.8 m)" Charging indicator While charging: Lights Charging finished: Turns off 1 Getting Started 3 2 To power outlet Battery Battery charger 1 AC plug cord 1 2 3 4 Connect the AC plug cord to the battery charger.

Plug the AC plug cord into the power outlet. Place the battery in the battery charger so that the PENTAX logo is facing up. The charging indicator lights while the battery is charging and turns off when charging is finished. Remove the battery from the battery charger when charging is finished. 31 1 Getting Started · Do not use the supplied battery charger (D-BC88) to charge batteries other than the rechargeable lithium-ion battery D-LI88, as the battery charger may overheat or be damaged.

· The battery has reached the end of its service life when it starts to run down soon after being charged. Replace it with a new battery. · If the battery is inserted correctly but the charging indicator fails to light, the battery may be faulty. Replace it with a new battery. The time required to fully charge the battery is about 120 minutes (max.

). (The charging time may vary depending on the ambient temperature and charging conditions.) The appropriate ambient temperature for charging the battery is 0°C to 40°C (32°F to 104°F). Installing the Battery Use the rechargeable lithium-ion battery D-LI88 that is provided with the camera. Charge the battery before using it in the camera for the first time. Battery/ card cover Battery Battery lock lever 1 32 Open the battery/card cover. Slide the battery/card cover toward the lens (1). 2 Press the battery lock lever in the direction of 2 and insert the battery so that the PENTAX logo is facing toward the screen display. Match the marks on the battery to the marks inside the battery compartment and push the battery in until it is locked in place. Make sure that the battery is inserted with the PENTAX logo pointing toward the screen display.

If the battery is incorrectly oriented, malfunction may result. 1 Getting Started 3 Close the battery/card cover. Close the battery/card cover and slide it toward the screen display. Removing the Battery 1 2 Open the battery/card cover. Press the battery lock lever in the direction of 2. The battery will be ejected. Take care not to drop the battery when removing it. · This camera uses a rechargeable lithium-ion battery D-LI88. Use of any other type of battery may damage the camera and cause malfunction. · Insert the 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. Storing the battery 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, Sound 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. 200 pictures Movie Recording Time*2 Approx.

70 min. Sound Recording Time*2 Approx. 250 min. Playback Time*2 Approx. 200 min. *1 Recording 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). Actual performance may vary according to operating conditions. *2 According to the result of in-house testing. · 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 (green) (green) (yellow) (red) [Battery depleted] 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. Using the AC Adapter Use of the optional AC adapter kit (K-AC88) is recommended if you intend to use the camera for a long time or connect it to a computer. 4 1 Getting Started 1 8 AC plug cord 7 AC adapter 3 DC coupler 6 DC terminal 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. Confirm the DC coupler is locked in place. Extract the DC coupler cord.

Pull out the tab at the joint of the camera and the battery/card cover so that the DC coupler cord is extracted from there. 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 DC terminal connecting the AC adapter to the camera are inserted securely. 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-AC88 before using the adapter. · When connecting the AC adapter, you cannot set the camera upright on the table because the cord from the DC coupler comes out of the bottom of the camera. Additionally, do not place the camera with the lens facing down because the lens extends when the camera turns on. Hold the camera in your hand or use a tripod when using the AC 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 and sound files 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.41). · 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.188) 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 self-timer 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 SD Memory Card SD Memory Card socket 1 2 Open the battery/card cover.

Slide the battery/card cover toward the lens (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.

Close the battery/card cover and slide it toward the screen display. To Remove the SD Memory Card 1 2 Open the battery/card cover. Push the card into the SD Memory Card socket to eject it. Pull the card out. 38 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 the card from being formatted by the camera or Write-protect computer. r appears on the display when the card is switch write-protected. · Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot. · Do not remove the SD Memory Card or turn the camera off while 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. · 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.188).

· Please note that formatting the SD Memory Card will not necessarily delete the data so that it cannot be recovered using off-the-shelf data recovery software. There are off-the-shelf secure data deletion software programs available that will completely delete the data. If you are going to discard, give away or sell your SD Memory Card, you should ensure that the data on the card is completely deleted or the card itself is destroyed if it contains any personal or sensitive information. In any case, the data on your SD Memory Card should be managed at your own risk. 1 Getting Started 39 Number of Images Recordable on an SD Memory Card 1 Getting Started 40 The sizes of the recorded images differ depending on the number of recorded pixels of the images, so the number of images that will 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 Number of Recorded Pixels 1p.106 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.125 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.242). Turning the Camera On and Off Power switch 1 Getting Started 1 Press the power switch. The camera turns on and the display turns on.

When you turn the camera on, the lens cover opens and the lens extends. If the [Language/] screen or [Date Adjustment] screen appears when you turn the camera on, follow the procedure on p.43 to set the display language and/or current date and time. 2 Press the power switch again. The display turns off, the lens closes, and the camera turns off. Taking Still Pictures 1p.66 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 a + r The SD Memory Card is inserted. Images and sound files will be saved on the SD Memory Card. The SD Memory Card is not inserted.

Images and sound files 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. 08/08/2009 14:25 41 Starting-up in the Playback Mode 1 Getting Started If you want to play back images or sound files straightaway without taking any pictures, you can start up the camera in the playback mode.

Power switch Q button 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 capture mode, press the Q button or press the shutter release button halfway. Playing Back Still Pictures 1p.130 42 Initial Settings The [Language/] 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.195). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.190). 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 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/]. Press the four-way controller (5). The [Language/] screen appears. Use the four-way controller (2345) to select the 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.193). · To change the [Date] and [Time], follow the steps in "Changing the Date and Time" (1p.190). 45 To Set Hometown and DST 3 1 Getting Started 46 Press the four-way controller (3). The frame moves to [W Hometown]. 4 Press the four-way controller (5).

The [W Hometown] screen appears. Initial Setting English Hometown New York Settings complete MENU Cancel 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.239) for the video output format of each city set as the initial setting, and "Changing the Video Output Format" (p.197) for changing the setting of 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 and time display style. Choose from [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

Date Adjustment Date Format Date mm/dd / yy 24h 01/01/2009 Time MENU Cancel 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). Date Adjustment Date Format Date mm/dd / yy 24h 01/01/2009 Time MENU Cancel 00:00 Settings complete 5 6 Press the four-way controller (5). The frame returns to [Date Format]. Press the four-way controller (3). The frame moves to [Date]. 47 7 1 Getting Started 48 Press the four-way controller (5). The frame moves to the month. Date Adjustment Date Format mm/dd / yy 24h Date Time MENU Cancel 01/01/2009 00:00 Settings complete 8 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 mm/dd / yy 24h 01/01/2009 00:00 Settings complete MENU Cancel Date Time 9 Press the four-way controller (3) to select [Settings complete]. Date Adjustment Date Format Date Time MENU Cancel mm/dd/yy 24h 01/01/2009 00:00 Settings complete OK OK 10 Press the 4 button. This confirms the date and time. Next, specify the Vertical Snap setting. 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.

Vertical Snap Setting The O (Vertical Snap) function enables you to take pictures with the camera held vertically, as if it was a cellphone. To use this function, first set "Vertical Snap" setting here. See "Simple Cellphone-style Picture Taking (Vertical Snap)" (p.80) for details. 1 Use the four-way controller (23) to select [On] or [Cancel].

On Enables Vertical Snap shooting. Cancel Disables Vertical Snap shooting. Vertical Snap Snaps vertical shots like a cellphone, using OK button 1 On Cancel OK Getting Started OK 2 Press the 4 button. This confirms the Vertical Snap setting and completes the initial setting. The camera returns to capture status.

When the [Initial Setting] or [Date Adjustment] screen is displayed, you can cancel the setting operation and switch to the capture mode by pressing the 3 button. In this case, the [Initial Setting] screen will appear next time you turn the camera on. [Language/], [Date], [Time], [Hometown], [DST], and [Vertical Snap] can be changed. Refer to the pages below for instructions. · To change the language, follow the steps in "Changing the Display Language" (1p.195). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.190). · To change the city or turn DST on and off, follow the steps in "Setting the World Time" (1p.193).

· To change the Vertical Snap setting, follow the steps in "To Select Vertical Snap Setting" (1p.82). 49 Memo 50 2 Common Operations Understanding the Button Functions ..... 52 Setting the Camera Functions ...

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.... 57 Understanding the Button Functions A Mode 2 Common Operations 1 2 3 4 5 6 7 8 9 1 2 3 Power switch Turns the camera on and off (p.41). Zoom lever Changes the captured area (p.78). Shutter release button Focuses the camera on the subject when pressed halfway in still picture capture mode (except in 3, s and \ modes). Takes a still picture when pressed down fully (p.

67). Starts and stops movie recording in C (Movie) mode (p.123). Starts and stops sound file recording in Voice Recording (p.181). 4 I button Switches the Face Recognition function (p.72). The Face Recognition function is switched as follows each time the I button is pressed: Smile Capture Face Priority Off Face Priority On 52 5 6 Q button Switches to the Q mode (p.56). Four-way controller 2 3 Changes the drive mode (p. 93, p.94). Enlarges the subject in O (Vertical Snap) mode (p.81). Displays the Capture Mode Palette (p. 69). Widens the area that is captured by the camera in O (Vertical Snap) mode (p.81). Changes the flash mode (p.101).

Compensates the exposure to minus in O (Vertical Snap) mode (p.81). Changes the focus mode (p.103). Compensates the exposure to plus in O (Vertical Snap) mode (p.81). Adjusts the focus when the focus mode is set to \ (p.104). 2 Common Operations 4 5 23 7 4/W button Changes the information on the display (p.20).

Turns the camera on and takes a picture in O (Vertical Snap) mode (p.80). 8 3 button Displays the [A Rec. Mode] menu (p.57). Changes the number of recorded pixels in O (Vertical Snap) mode (p.81). 9 Green button Switches to the 9 (Green) mode (p.76). Changes the flash mode in O (Vertical Snap) mode (p.

81). Calls up the assigned function (p.121). 53 Q Mode 1 2 3 4 5 6 7 8 9 2 Common Operations 1 2 Power switch Turns the camera on and off (p.41). Zoom lever 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.132). 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.143). Turn to the left (f) during nine-image display to change to folder or calendar display (p.133). Turn to the right (y) during folder/calendar display to change to nineimage display (p.133). Adjusts the volume during playback of movies, sound files or voice memo (p.131, p.182, p.185).

3 4 Shutter release button Switches to A mode (p.56). I button Zooms in on the subject's faces in the face-recognized image in the order the faces were recognized when the picture was taken. (Face close-up playback) (p.144) 54 5 6 Q button Switches to A mode (p.56). Four-way controller 2 3 45 Plays back and pauses a movie or sound file (p.131, p.182). Displays the Playback Mode Palette (p. 134). Stops a movie or sound file during playback (p.131, p.182). Displays the previous or next image or sound file during single-image display (p. 130). Fast-forwards, fast-reverses, frame forwards, frame reverses, reverses a movie and makes a movie play forwards during playback (p.131). Fast-forwards, fast-reverses, and moves to the next index in sound file playback (p.182).

Selects an image in four-/nine-image display, a folder in folder display, and a date in calendar display (p.132, p.133). Moves the display area during zoom display (p.143). Moves the image when using the Frame Composite function (p.167). 2 Common Operations 2345 7 4/W button Changes the information on the display (p.24). Returns to single-image display during four-/nine-image display or zoom display (p.

132, p.143). Changes to nine-image display of the selected folder during folder display (p.133). Changes to single-image display of the selected date during calendar display (p.134). 8 3 button Displays the [W Setting] menu during single-image display (p.57). Returns to single-image display during Playback Mode Palette display (p.134).

Returns to single-image display during four-/nine-image display or zoom display (p.132). Changes to nine-image display of the selected folder during folder display (p.133). Changes to nine-image display of the selected date during calendar display (p. 133). 9 Green/i button Switches from single-image display to the Delete screen (p.146). Switches from four-/nine-image display to the Select & Delete screen (p.148).

Switches from folder display to the calendar display screen (p.133). Switches from calendar display to the folder display screen (p.133). 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 display, is referred to as "Q mode" (the playback mode). In Q mode, you can perform simple editing operations on the captured images. 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 data stored in the built-in memory When an SD Memory Card is inserted in the camera, images, movies, and sounds on the SD Memory Card are displayed. If you want to display images, movies and sounds 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 [Display image/sound from built-in memory] appears, images, movies and sound files stored in the builtin memory are displayed. · In the built-in memory display, you can play back still pictures (including enlarged display) (p.130, p.143), movies (p. 131) and sounds (p.182), and switch between four-/nine-image display, folder display and calendar display (p.132). · 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 builtin 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 editing images and sound files are displayed from the Playback Mode Palette (p.134). 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 08/08/2009 14:25 2 MENU Edit 08/08/2009 14:25 MENU 58 Common Operations SHUTTER Rec. Mode 1/4 Setting 1/3 Pixel Track SR Recorded Pixels 12M AWB White Balance Focusing Area AE Metering Sensitivity Auto MENU Exit Sound Date Adjustment 08/08/2009 World Time English Folder Name Date USB Connection MSC MENU Exit Rec. Mode 1/4 Setting 1/3 Pixel Track SR Recorded Pixels 12M AWB White Balance Focusing Area AE Metering Sensitivity Auto MENU Exit Sound Date Adjustment 08/08/2009 World Time English Folder Name Date USB Connection MSC MENU Exit MENU or Press halfway The setting is complete and the camera returns to A mode. 38 100-0038 100 0038 08/08/2009 14:25 Edit 08/08/2009 14:25 The setting is complete and the camera returns to Q mode. Available button operations appear on the display during menu operation (p.26).

Ex.) To set the [Focusing Area] 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 [Pixel Track SR]. Rec. Mode 1/4 Pixel Track SR Recorded Pixels 12M White Balance AWB Focusing Area AE Metering Auto Sensitivity MENU Exit 2 Common Operations 3 4 Press the four-way controller (3) three times. The frame moves to [Focusing Area]. 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 1/4 Pixel Track SR Recorded Pixels 12M AWB White Balance Focusing Area AE Metering Sensitivity Auto MENU Exit 5 Use the four-way controller (23) to change the setting.

The focusing area changes each time the four-way controller (23) is pressed. Rec. Mode 1/4 Pixel Track SR Recorded Pixels 12M White Balance AWB Focusing Area AE Metering Sensitivity 0.0 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 settings, press the 3 button. To use another operation, refer to the alternate Step 6 options on the next page. 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.234) 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. Item Description Pixel Track SR For correcting camera shake during shooting Recorded Pixels For choosing the number of recorded pixels of still pictures For adjusting the color balance according to the lighting White Balance conditions Focusing Area For changing the area of the autofocus For setting the area of the screen that is metered to AE Metering determine the exposure Sensitivity For setting the sensitivity EV Compensation For adjusting the overall brightness of the picture Recorded For choosing the number of recorded pixels of movies Pixels For choosing whether or not to use the movie shake Movie SR reduction function Highlight Adjusts the bright areas when the image is too bright Correction Shadow Correction Adjusts the dark areas when the image is too dark For choosing whether to use the Blink Detection function when the Face Recognition function worked For choosing whether or not to use the Digital Zoom function For choosing whether to display Instant Review For choosing whether to save the set values of the shooting function or return to the defaults when the camera is turned off For assigning a function to the Green button in A mode For choosing sharp or soft outlines For setting the color saturation For setting the image contrast level p.