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You can read the recommendations in the user guide, the technical guide or the installation guide for PENTAX OPTIO W80. You'll find the answers to all your questions on the PENTAX OPTIO W80 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 W80
User guide PENTAX OPTIO W80
Operating instructions PENTAX OPTIO W80
Instructions for use PENTAX OPTIO W80
Instruction manual PENTAX OPTIO W80

PENTAX EN

Digital Camera

Optio W80

Operating Manual

PENTAX LENS
PENTAX
OPTICAL 5xZOOM
Optio W80

CERTIFIED FOR Windows Vista® acdsee SDHC USB

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

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Manual abstract:

· A band of light may appear on the display if the camera is aimed at a bright subject. This is known as a smear, but it is not a malfunction. · 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. @@@@@@@@Please 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 on the flash when it is discharging as there is a risk of burns.

· Do not discharge the flash while it is touching your clothing as there is a risk of discoloring. · Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time. · Should the LCD 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 in your 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. 2 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 100240V 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 its 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 or AC adapter, 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 heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending.

If the AC plug cord becomes damaged, consult a PENTAX Service Center. · Do not short or touch the output terminals of the product while it is still plugged in. · Do not plug in the AC plug cord with wet hands. This can cause an electric shock. · Do not subject the product to strong impacts or allow it to drop onto a hard surface. This can cause a malfunction. · Do not use the battery charger to charge a battery other than a rechargeable lithium-ion battery D-LI78. This can cause overheating, explosion, or battery charger failure. 3 · 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. Placing it in their mouths may cause an electric shock. · If any leakage from the battery should come in contact with your eyes, it may cause a loss of sight. Flush your eyes with clean water and get medical attention immediately. Do not rub them.

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 explosion or fire. · If any leakage from the battery should come in contact with skin or clothes, it may cause irritation to the skin. Wash the affected areas thoroughly with water. · Precautions for D-LI78 Battery Usage: - USE SPECIFIED CHARGER ONLY. - DO NOT INCINERATE.

- DO NOT DISASSEMBLE - DO NOT SHORT CIRCUIT - DO NOT EXPOSE TO HIGH TEMP.(140°F/60°C) 4 About SD Memory Cards 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. Care to be Taken During Handling Before Starting Use · When traveling, take the Worldwide Service Network listing that is included in the package. This will be useful if you experience problems abroad. · When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc. · The lens on this camera is not interchangeable. The lens is not removable.

About the Battery and Battery Charger · Storing the battery fully charged may decrease the battery performance. Avoid storing it especially 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 service life. · Charging the battery a day before use or on the day of use is recommended. · The AC plug cord supplied with the camera is for exclusive use with the battery charger D-BC78.

Do not use it with any other equipment.

Cautions when Carrying and Using the Camera · Hot and humid places should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside. · Ensure that the camera is not subjected to substantial vibrations, shocks, or pressure as this may cause damage, malfunction, or a loss in waterproof performance. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, ship, etc. If the 5 · · · · · · · · camera is subjected to substantial vibrations, shocks, or pressure, take your camera to your nearest PENTAX Service Center and have it checked. The temperature range in which the camera can be used is -10°C to 40°C (14°F to 104°F). The liquid crystal display will become black at high temperatures but will return to normal at normal temperatures. The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a malfunction. If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag and take the camera out when the difference in temperature has subsided. 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 display. 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. When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera. About Repairs · Do not clean the product with organic solvents such as thinner, alcohol or benzene. · Use a lens brush to remove dust accumulated on the lens. Never use a spray blower for cleaning as it may damage the lens. About Storage ·Avoid storing the camera where pesticides and chemicals are handled. Remove the camera from its case and store it in a well-ventilated place to prevent the camera from becoming moldy during storage. 6 Regarding Waterproof, Dustproof, and Shockproof Design · This camera is provided with a waterproof/dustproof design complying with JIS waterproof grade 8 and JIS dustproof grade 6 (equivalent to IP68).

· The camera satisfies the PENTAX drop test (1 m height onto a 5 cm thick plywood surface) complying with MIL-Standard 810F Method 516.5-Shock testing. · Waterproof performance is not guaranteed if the camera is exposed to impact such as being dropped or hit. · The camera is not guaranteed to be free of trouble or damages under every condition. · To enhance the waterproof performance of the camera, the front of the lens is protected by glass.

As any dirt or water on the glass will affect the quality of pictures taken, the glass should be kept clean at all times. · Leaving the camera on the sand at the beach may cause the camera to exceed its operating temperature or cause the speaker or microphone to become blocked with sand. · The camera will sink if dropped in water, so be sure to attach the strap and slip the strap over your wrist when using the camera in or near water. · Be sure to check that the battery/card/terminal cover is securely locked before using the camera in an environment where it is likely to get wet or dirty, such as underwater or at the beach. Water, sand or dirt inside the camera may cause failure of the camera.

Wipe off any water or dirt with a dry cloth as soon as possible after using the camera. · Avoid opening the battery/card/terminal cover at the beach or by the sea. Wait until the camera is completely dry before changing the battery or the SD Memory Card. Avoid changing the battery or card where the camera is likely to get wet or dirty, and make sure that your hands are dry. · If the camera is very dirty or after it has been used in the sea, make sure that it is turned off and the battery/card/terminal cover is firmly closed before rinsing it under running tap wate......

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In this manual, the method for operating the four-way controller is shown in illustrations, such as in the one below.

2 or or 4   5 or 3 or

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.

A Mode Q Mode This is the mode for taking still pictures and movies.

In this manual, "Still Picture Capture Mode" is the mode for taking still pictures while "C mode" is the mode for taking movies. This is the mode for viewing still pictures and playing back movies and sound files.

14 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 Taking Pictures This chapter explains the various ways of capturing images and how to set the relevant functions. 3

4 Playing Back and Deleting Images This chapter explains how to view still pictures and movies on the camera or on a TV and how to delete images, sound files, and movies from the camera. 4

5 Editing and Printing Images This chapter explains the various ways of printing still pictures and how to edit images with the camera.
5

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 sound files. 6

7 7 Settings This chapter explains how to set camera-related functions.

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. 8

9 Appendix This chapter deals with troubleshooting and lists the optional accessories. 9

15 Camera Features In addition to basic picture-taking, the Optio W80 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 fullest. Forget Your Worries About Water Getting in the Camera! The Optio W80 is both waterproof and dustproof. The waterresistant coating on the lens cover glass enables you to take pictures underwater for two hours at a depth of 5 meters (approx. 16.

6 ft.). It also allows the camera to be sprayed by water, and you can use the camera in locations where it will be exposed to dust and dirt such as beaches, kitchens, or workshops. Because it utilizes a lock mechanism for the battery/card/terminal cover, when the cover is firmly locked, you can use it underwater with the knowledge that the batteries and card are also secure. The camera's impact resistance(*) performance satisfies PENTAX's independent standard for impact resistance, so it can be used in a wide variety of outdoor activities. * The camera satisfies the PENTAX drop test (1 m height onto a 5 cm thick plywood surface) complying with MIL-Standard 810F Method 516.5-Shock testing. · Waterproof performance is not guaranteed if the camera is exposed to impact such as being dropped or hit. · The camera is not guaranteed to be free of trouble or damages under every condition. 16 For taking pictures while snorkeling (p.

134). For taking pictures at the pool or while playing in a river or lake. For taking pictures while enjoying various outdoor activities without worrying about your camera getting a bit dirty. A quick wipe with a wet cloth is all it needs! Easy-to-Navigate Capture and Playback Functions! The user-friendly design of the Optio W80 enables easy operation with only a few buttons. Simply by choosing the appropriate icon, you can select the shooting mode (p.71) and choose the optimal settings for the situation, or the playback mode (p.152) 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. XXX XXX XXX XXXXXX XXX XXX XXXXXX XX XXX XXXX XXX XX A shooting mode guide is displayed in the Capture Mode Palette and a playback mode guide in the Playback Mode Palette (p.70, p.

150). Use the Green Mode to take pictures easily using standard settings (p.78). Perfect Size for Carrying Around With You! The Optio W80 features a sporty and sharp design with excellent portability which make it feel more like a cell phone. It will easily slip into a pocket in your bag or hang round your neck, so you'll always have it with you.

Quickly check the time with the convenient "Clock Mode" (p.

222). 17 Perfect for Portrait Shots! The Optio W80 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 are displayed on the monitor (30 in the Half-length Portrait mode). Face Recognition function (p.73). Modes for taking stunning pictures of people (p.83). Close-ups of people's faces for easy checking during playback (p.158). Add Various Frames to Your Pictures! When you take a picture with the Optio W80, 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.180). For decorating your pictures with a frame. Display Images and Sound Files in Calendar Format! With the Optio W80, you can display recorded images and sound files by date in calendar format (p.150). This lets you quickly find the image or sound file you want to play back. 18 Advanced Movie Recording Functions! The Optio W80 includes Movie SR to reduce camera shake during movie recording (p.139).

It also supports 1280×720 HDTV so you can view your recordings as stunning wide-screen movies. Use the camera to shoot fun-filled movies of your children or pets as a visual diary of their development (p.136). A Multitude of Functions inside the Camera for Enjoying Images Without a Computer! The Optio W80 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.

172). And no more worries about accidentally deleting images, because now, with the Optio W80, you can recover them again (p.164). Resize (p.172), Cropping (p.

173) and Red-eye Compensation (p.179) can be used, while the image is displayed in the playback mode. You can divide a movie in two or select a frame from a movie to save it as a still picture (p.183). 19 Checking the Contents of the Package Camera Optio W80 Strap O-ST20 (*) Software (CD-ROM) S-SW87 USB cable I-USB7 (*) AV cable I-AVC7 (*) Rechargeable lithium-ion battery D-LI78 (*) Battery charger D-BC78 (*) 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-BC78). For other optional accessories, refer to "Optional Accessories" (p.261). 20 Names of Parts Front Power switch/ Power lamp (green) Shutter release button Speaker Microphone Flash Self timer lamp/ Focus assist Lens Back Battery/card/ terminal cover lock lever Display Tripod socket PC/AV terminal Battery/card/ terminal cover Battery lock lever 21 Names of Operating Parts Power switch Shutter release button w/x/f/y button Q button I button Four-way controller 4/W button Green/i button 3 button Refer to "Understanding the Button Functions" (p.52 - 55) for an explanation of the function of each button.

22 Monitor Indications Display in A Mode The display changes in the following sequence each time you press the 4/W button: "Normal Display", "Histogram + Info", "No Info", "Backlight Off". ·All the camera buttons function as normal even when the backlight is off. Press the shutter release button to take pictures as normal. · Y appears if you press the shutter release button halfway when camera shake is likely to occur. To prevent camera shake, use a tripod and/or the self-timer function (p.92). · You cannot turn off the backlight in N (Frame Composite) mode. · You cannot change the information on the display by pressing the 4/ W button in 9 (Green) mode or X (Digital Wide) mode. Normal Display 38 Histogram + Info 38 12M OK 200 07/07/2009 14:25 OK OK OK Backlight Off No Info 23 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 07/07/2009 14:25 15 16 1 2 3 4 5 6 7 8 9 10 Shooting mode (p.70) Face Priority icon (p.73) D-Range icon (p.122) Pixel Track SR icon (p.112) Shutter speed Aperture Flash mode (p.

103) Drive mode (p.92 - p.97) Focus mode (p.105) Digital Zoom/Intelligent Zoom icon (p.79) 17 18 11 Memory status (p.

43) 12 Remaining image storage capacity 13 Battery level indicator (p.36) 14 Focus frame (p.66) 15 Date and time (p.49) 16 EV Compensation (p.121) 17 Date Imprint setting (p.129) 18 World Time setting (p.208) * For 3, the displayed icon changes depending on the settings in [DRange Setting] on the [A Rec. Mode] menu. : With Highlight Correction and Shadow Correction set to O (On). : With Highlight Correction set to O (On) and Shadow Correction set to P (Off).

: With Highlight Correction set to P (Off) and Shadow Correction set to O (On). Nothing is displayed when Highlight Correction and Shadow Correction are both set to P (Off). * For 4, M is displayed when Pixel Track SR is set to O (On) on the [A Rec. Mode] menu. f is displayed when the shutter release H S 24 button is pressed halfway if Pixel Track SR is set to P (Off) and there is a danger of camera shake. * 5 and 6 are only displayed when the shutter release button is pressed half-way. * For 9, when the focus mode is set to = and the Auto Macro function is activated, the q appears on the display (p.105). * Some indications may not appear depending on the shooting mode. 25 Histogram + Info/No Info Display in Still Picture Capture Mode A1 to A17 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 +1.0 A10 A11 A12 A13 A14 A15 A16 A17 A18 A1 A2 A3 A4 A5 A6 A7 A8 Shooting mode (p.70) Face Priority icon (p.

73) D-Range icon (p.122) Pixel Track SR icon (p.112) Flash mode (p.103) Drive mode (p.92 - p.

97) Focus mode (p.105) Digital Zoom/Intelligent Zoom icon (p.79) A9 Memory status (p.43) A10 Remaining image storage capacity A19 A11 Battery level indicator (p.36) A12 Recorded pixels (p.113) A13 Quality Level (p.115) A14 White Balance (p.116) A15 AE Metering (p.118) A16 Sensitivity (p.119) A17 Histogram (p.

29) A18 EV Compensation (p.121) A19 Date Imprint setting (p.129) B1 Focus frame (p.66) B2 Shutter speed B3 Aperture * For A4, M is displayed when Pixel Track SR is set to O (On) on the [A Rec.

Mode] menu. f is displayed when the shutter release button is pressed halfway if Pixel Track SR is set to P (Off) and there is a danger of camera shake. * B2 and B3 are only displayed when the shutter release button is pressed half-way. * When there is an area on the screen that is so bright it appears white, the indicated area blinks red as a warning. Similarly, when there is an 26 area that is so dark it appears black, the indicated area blinks yellow as a warning. * 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.

75). * 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 4/W button: Normal Display 100 - 0026 Edit 07/07/2009 14:25 OK Histogram + Info 100 - 0026 12 M OK 200 1/250 F3.5 Edit 07/07/2009 14:25 OK No Info Edit 27 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 B8 appear only when "Histogram + Info" is selected. A2 A1 B1 B2 B3 B4 B5 B6 B7 12M A3 100 - 0038 A4 A5 A6 A7 A8 A9 B8 200 1/250 F3.5 Edit 07/07/2009 14:25 A10 A11 A1 Playback mode Q :Still Picture (p.

146) K :Movie (p.147) A2 Face Priority icon (p.73) A3 Memory status (p.43) A4 Folder number (p.212) A5 File number A6 Protect icon (p.165) A7 Voice memo icon (p.197) A8 Battery level indicator (p.36) A9 Volume icon A10 Captured date and time (p.49) A11 Four-way controller guide B1 Recorded pixels (p.113) B2 Quality Level (p.

115) B3 White Balance (p.116) B4 AE Metering (p.118) B5 Sensitivity (p.119) B6 Shutter speed B7 Aperture B8 Histogram (p.29) * A2 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, sounds, or voice memos (p.147, p.194, p.197).

* 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. * When there is an area on the screen that is so bright it appears white, the indicated area blinks red. Similarly, when there is an area that is so dark it appears black, the indicated area blinks yellow. 28 Guide Display 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 OK SHUTTER X, i I, J Zoom button 4/W button Shutter release button Green/i button I button 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. (Dark) Brightness (Bright) The shape of the histogram before and after shooting tells Dark portions Bright portions 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.121 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 29 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). The Optio W80 has a function where bright portions are indicated as blinking red and dark portions as blinking yellow. 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. 30 1 Getting Started Attaching the Strap .....

Attaching the Strap Attach the strap (O-ST20) supplied with the camera.

1 Getting Started 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. 32 Powering the Camera Charging the Battery Use the supplied battery charger (D-BC78) to charge the supplied rechargeable lithium-ion battery (D-LI78) 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 2 3 To power outlet Battery 1 Battery charger 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 turns on while charging. When charging is finished, the charging indicator turns off. Remove the battery from the battery charger when charging is finished. · Do not charge batteries other than the rechargeable lithium ion D-LI78 battery using the supplied D-BC78 battery charger. Doing otherwise may cause damage or overheating. · 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. 33 The time required to fully charge the battery is about 150 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). 1 Getting Started 34 Installing the Battery Use the rechargeable lithium-ion battery D-LI78 that is provided with the camera. Charge the battery before using it in the camera for the first time. Battery lock lever Battery/card/terminal cover lock lever Battery/card/ terminal cover Battery 1 2 Open the battery/card/terminal cover. Press the battery/card/terminal cover lock lever in the direction shown 1, slide the cover towards 2 and open it towards 3.

Using the side of the battery to press the battery lock lever in the direction of 4, insert the battery with the PENTAX logo pointing toward the lens. Push the battery in until it is locked in place. Make sure that the battery is inserted with the PENTAX logo pointing toward the lens. If the battery is incorrectly oriented, malfunction may result. 3 Close the battery/card/terminal cover. Slide the battery/card/terminal cover lock lever in the opposite direction indicated by 2.

If you hear a click, the cover is securely closed. 1 Getting Started Removing the Battery 1 2 Open the battery/card/terminal cover. Press the battery lock lever towards 4. The battery will be ejected. Take care not to drop the battery when removing it.

· Do not use excessive force when sliding the battery/card/terminal cover open and closed because the waterproof packing may peel off. If the packing is not in the correct position, the camera will not be waterproof. · If the battery/card/terminal cover is not locked securely when you close it, water, sand, or dirt may get into the camera. · This camera uses a rechargeable lithium-ion battery D-LI78. 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. · Allow the camera to dry completely before changing the battery. Avoid changing the battery where the camera is likely to get wet or dirty, and make sure that your hands are dry. · Battery performance may deteriorate as temperature decreases. When using the camera in cold regions, we recommend carrying a spare battery in your pocket to keep it warm. Battery performance will return to normal in normal temperatures. 35 · Image Storage Capacity, Movie Recording Time, Sound Recording Time, and Playback Time (at 23°C or 73.

4°F with the display on and the battery fully charged) 1 Getting Started 36 Image Storage Capacity*1 (flash used for 50% of shots) Approx. 170 pictures Movie Recording Time*2 Approx. 65 min. Sound Recording Time*2 Approx. 230 min.

Playback Time*2 Approx. 180 min. *1 Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with display on, flash used for 50% of the shots, and 23°C or 73.4°F). Actual performance may vary according to operating conditions.

*2 According to the results 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-AC78) is recommended if you intend to use the camera for a long time or connect it to a computer.

1 Getting Started 6 1 5 4 3 DC coupler DC terminal 1 2 3 Make sure that the camera is turned off and open the battery/card/terminal cover. Remove the Battery. Refer to p.34 - p.35 on how to open the battery/card/terminal cover and remove the battery. Insert the DC coupler. Using the side of the DC coupler to press the battery lock lever, insert the DC coupler. Confirm that the DC coupler is locked in place. The battery/card/terminal cover will not close while the DC coupler is inserted. Leave the cover open when using the AC adapter and do not attempt to close it.

4 5 6 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. 37 1 Getting Started 38 · 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.3) before using the AC adapter. · Be sure to read the operation manual accompanying the AC adapter kit K-AC78 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. · Do not use excessive force when sliding the battery/card/terminal cover open and closed because the waterproof packing may peel off. If the packing is not in the correct position, the camera will not be waterproof. 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.43). · 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. · Allow the camera to dry completely before changing the SD Memory Card. Avoid changing the card where the camera is likely to get wet or dirty, and make sure that your hands are dry. · Do not use excessive force when sliding the battery/card/terminal cover open and closed because the waterproof packing may peel off. If the packing is not in the correct position, the camera will not be waterproof. · 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.263). · 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. 39 1 Getting Started SD Memory Card socket SD Memory Card Battery/card/ terminal cover 1 2 Open the battery/card/terminal cover. Press the battery/card/terminal cover lock lever in the direction shown 1, slide the cover towards 2 and open it towards 3. 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.

Images and sound may not be recorded correctly if the card is not inserted all the way. 3 Close the battery/card/terminal cover. Slide the battery/card/terminal cover lock lever in the opposite direction indicated by 2. If you hear a click, the cover is securely closed. To Remove the SD Memory Card 1 2 Open the battery/card/terminal cover.

Push the card into the SD Memory Card socket to eject it. Pull the card out. If the battery/card/terminal cover is not locked securely when you close it, water, sand, or dirt may get into the camera. 40 Precautions When Using an SD Memory Card · The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK prevents new data from being recorded on the card, the stored data from Write-protect being deleted, and the card from being switch formatted by the camera or a 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. · Do not remove the SD Memory Card or turn off the camera while data is being written or played back from the SD Memory Card or while connected to a computer with a USB cable. Doing so may result in data corruption or damage to the card. · Do not bend the SD Memory Card or subject it to violent impact.

Keep it away from water and store away from high temperature. · Never remove the SD Memory Card while it is being formatted. This may damage the card and make 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. This includes the following: (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.200). · 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 41 Number of Images Recordable on an SD Memory Card 1 Getting Started 42 The size of a recorded image differs depending on the number of recorded pixels of the images. This affects the number of images that can be saved on an SD Memory Card. Choose the appropriate number of recorded pixels for still pictures on the [A Rec. Mode] menu. Selecting the Number of Recorded Pixels 1p.113 Choose the appropriate number of recorded pixels and frame rate in [Movie] on the [A Rec. Mode] menu. Selecting the Number of Recorded Pixels and Frame Rate for Movies 1p.138 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.

262). Turning the Camera On and Off Power switch/Power lamp 1 Getting Started 1 Press the power switch. The camera turns on and both the power lamp and display turn on. If the [Language/] screen or [Date Adjustment] screen appears when you turn the camera on, follow the procedure on p.45 to set the display language and/or current date and time. 2 Press the power switch again. The camera turns off and both the power lamp and display turn 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.41).

Images and sounds cannot be recorded. 07/07/2009 14:25 43 Starting-up in the Playback Mode 1 Getting Started Use this function when you want to play back images or sound files straightaway without taking any pictures. Power switch Q button 1 Press the power switch while holding down the Q button. The display turns on and the camera starts up in playback mode. To switch from Playback Mode to A mode, press the Q button or press the shutter release button halfway.

Playing Back Still Pictures 1p.146 44 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.49) 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.211). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.203).

1 Getting Started Setting the Display Language 3 button Four-way controller 4 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 45 2 1 Getting Started 46 Press the 4 button. The [Initial Setting] screen appears in the English selected language.

If the desired settings Hometown for [Hometown] and [DST] (Daylight Saving DST New York OFF Time) appear, use the four-way controller Settings complete (23) to move the frame to [Settings MENU Cancel complete], and press the 4 button to display the [Date Adjustment] screen. Go to DST "Setting the Date and Time" (p.49). Go to step 3 in "To Set Hometown and DST" (p.48) if the desired settings do not appear. Initial Setting If you accidentally select the wrong language and go to the next procedure, perform the following operation to set the language back. 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 7 Press the 3 button. This exits the settings screen and returns the camera to capture mode. Press the 3 button.

The [A Rec. Mode] menu appears. 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.208). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.203).

47 To Set Hometown and DST 3 1 Press the four-way controller (3). The frame moves to [Hometown]. 4 Press the four-way controller (5). The [Hometown] screen appears. 48 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 (On) or P (Off). Press the 4 button. The [Initial Setting] screen appears.

Press the four-way controller (23) to move the frame to [Settings complete] and 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. See the following pages for information on the available video output formats and how to change the initial settings.

· Video output formats available initially: "List of World Time Cities" (1p.260) · To change the video out format, follow the steps in "Changing the Video Output Format" (1p.213). Setting the Date and Time Set the current date and time and the display format. 1 2 Press the four-way controller (5).

The frame moves to [mm/dd/yy]. 1 Getting Started Use the four-way controller (23) to choose the date and time display 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 01/01/2009 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 Time MENU Cancel mm/dd / yy 24h 01/01/2009 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].

Date Adjustment Date Format Date Time MENU Cancel mm/dd / yy 24h 01/01/2009 00:00 Settings complete 7 Press the four-way controller (5). The frame moves to the month. 49 8 1 Getting Started 50 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 01/01/2009 00:00 Settings complete 9 10 Press the four-way controller (3). The frame moves to [Settings complete]. 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 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] and [DST] can be changed. Refer to the pages below for instructions. · To change the language, follow the steps in "Changing the Display Language" (1p.211). · To change the date and time, follow the steps in "Changing the Date and Time" (1p.

203). · To change the city or turn DST on and off, follow the steps in "Setting the World Time" (1p.208). 2 Common Operations Understanding the Button Functions ..... 52 Setting the Camera Functions ..

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57 Understanding the Button Functions A Mode 1 2 Common Operations 5 2 3 4 6 7 8 9 1 2 Power switch Turns the camera on and off (p.43). Shutter release button Focuses the camera on the subject when pressed halfway in Still Picture Capture Mode (except when the focus mode is set to 3, s, and \) (p.67). Takes a still picture when pressed down fully (p.

67). Pressing down fully starts and stops movie recording in C (Movie) and (Underwater Movie) modes (p.134, p.137). Pressing down fully starts and stops sound file recording in O (Voice Recording) mode (p.193). 3 4 5 w/xbutton Changes the captured area (p.79). Q button Switches to the Q mode (p.56).

3 button Displays the [A Rec. Mode] menu (p.57). 52 6 I button Switches the Face Recognition function (p.73). The Face Recognition function is switched as follows each time the I button is pressed: Smile Capture Face Priority Off Face Priority On The Face Recognition function cannot be set to off in b (Auto Picture)/B (Night Scene Portrait)/C (Half-length Portrait)/P (Portrait)/R (Kids) modes. 7 Four-way controller (2) (3) (4) (5) (23) : : : : : Changes the drive mode (p.92 - p.97). Displays the Capture Mode Palette (p.

71). Changes the flash mode (p.103). Changes the focus mode (p.105).

Adjusts \ in \ mode (p.106). 2 Common Operations 8 9 4/W button Changes the information on the display (p.23). Green button Switches to the 9 (Green) mode (p.

78). Calls up the assigned function (p.130). 53 Q Mode 1 2 2 Common Operations 54 3 4 6 7 8 9 5 1 2 3 Power switch Turns the camera on and off (p.

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43). Shutter release button Press halfway to switch the camera to A mode (p.56). f/y button In single-image display, pressing f switches to four-image display. Pressing f again switches to nine-image display (p.148).

Press y to return to the previous display. In single-image display, pressing y enlarges the image. Press f to return to the previous display (p.157). In nine-image display press f to change to folder or calendar display (p.149). In folder/calendar display, press y to change to nine-image display (p.149, p.150). Adjusts the volume during playback of movies or sound files (p.

147, p.194, p.197). 4 5 Q button Switches to A mode (p.56).
3 button Displays the [W Setting] menu during single-image display (p.57). Returns to single-image display during Playback Mode Palette display (p.151). Returns zoom, four-, or nine-image display to single-image display.

In folder/calendar display, changes to nine-image display with the cursor placed to the most recent image (p.150). 6 7 I button Zooms up on the subjects' faces in the order in which they were recognized during shooting (Face close-up playback) (p.158). Four-way controller : Plays back and pauses a movie or sound file (p.147, p.194, p.197). (3) : Switches to the Playback Mode Palette (p.152).

Stops a movie or sound file during playback (p.147, p.195, p.197). (45) : Displays the previous or next image and sound file during single-image display (p.146). Fast-forwards, fast-reverses, frame forwards, frame reverses, reverses a movie and makes a movie play forwards during playback (p.147). Fast forwards, reverses, and moves to the next index in sound file playback (p.194).

(2345) : Moves the display area during zoom display (p.157). Selects an image in four/nine-image display, a folder in folder display, and a date in calendar display (p.148, p.149, p.

150). Moves the image when using the Frame Composite function (p.181). (2) 2 Common Operations 8 4/W button Changes the information on the display (p.27).

Returns zoom, four-, or nine-image display to single-image display (p.149, p.157). Changes to nine-image display of the selected folder during folder display (p.149). Changes to single-image display of the selected date during calendar display (p.150). 9 Green/i button Switches from single-image display to the Delete screen (p.160). Switches from four- or nine-image display to the Select & Delete screen (p.

162). Switches from folder display to the calendar display screen (p.149). Switches from calendar display to the folder display screen (p.149). 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). 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 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 stored in 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 stored in built-in memory while the SD Memory Card is inserted (built-in memory display) · When switching from A mode to Q mode, you can play back images, movies, and sounds in the built-in memory while the SD Memory Card is inserted by pressing the Q button for more than one second. · In the built-in memory display, you can play back still pictures (including enlarged display) (p.146, p.157), play back movies (p.

147), play back sounds (p.194), and switch between four/nine-image display, folder display, and calendar display (p.148, p.149). · 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. Functions for playing back and editing images and sound files are displayed 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. 57 Common Operations During recording 38 During playback 100-0038 100 0038 07/07/2009 14:25 2 MENU Edit 07/07/2009 14:25 MENU 58 Common Operations SHUTTER Rec. Mode 1/4 Setting 1/3 Image Tone Bright Pixel Track SR Recorded Pixels 12M Quality Level AWB White Balance AF Setting MENU Exit Sound Date Adjustment 01/01/2009 Alarm World Time English Folder Name Date MENU Exit Rec. Mode 1/4 Setting 1/3 Image Tone Bright Pixel Track SR Recorded Pixels 12M Quality Level AWB White Balance AF Setting MENU Exit Sound Date Adjustment 01/01/2009 Alarm World Time English Folder Name Date MENU Exit Press halfway 38 MENU 100-0038 100 0038 The setting is complete and the camera returns to A mode. 07/07/2009 14:25 Edit 07/07/2009 14:25 The setting is complete and the camera returns to Q mode. Available button operations appear on the display during menu operation. Ex.

: To set the [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 1/4 Image Tone Bright Pixel Track SR Recorded Pixels 12M Quality Level AWB White Balance AF Setting MENU Exit 2 Common Operations 3 4 Press the four-way controller (3) three times. 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. Recordable Image No. Image Tone Bright Pixel Track SR Recorded Pixels 12M Quality Level White Balance AF Setting MENU Cancel OK 12 OK 5 6 Use the four-way controller (23) to change the setting. The quality level changes each time the four-way controller (23) is pressed. Press the 4 button or the four-way controller (4). The setting is saved and then the camera is ready for setting other functions.