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You can read the recommendations in the user guide, the technical guide or the installation guide for RICOH WG-4. You'll find the answers to all your questions on the RICOH WG-4 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RICOH WG-4
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Operating instructions RICOH WG-4
Instructions for use RICOH WG-4
Instruction manual RICOH WG-4



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Manual abstract:

@@@ (http://www.us.ricoh-imaging.com) RICOH IMAGING CANADA 1770 Argentia Road Mississauga, Ontario L5N 3S7, INC. CANADA (http://www.ricoh-imaging.ca) RICOH IMAGING CHINA CO., LTD. 23D, Jun Yao International Plaza, 789 Zhaojiabang Road, Xu Hui District, Shanghai, 200032, CHINA (http://www.ricoh-imaging.com.cn)

RICOH WG-4 GPS RICOH WG-4 Operating Manual Digital Camera Common Operations Taking Pictures Playing Back and Deleting Images Editing and Printing 3 4 5 6 7 8 / Settings http://www.ricoh-imaging.co.jp/english Connecting to a Computer Appendix • Specifications and external dimensions are subject to change without notice.

OPWG40101/EN Copyright © RICOH IMAGING COMPANY, LTD. 2014 FOM 01.02.2014 Printed in Europe To ensure the best performance from your camera, please read the Operating Manual before using the camera. Thank you for purchasing this RICOH WG-4 GPS/RICOH WG-4 Digital Camera. @@@@ Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also. Regarding trademarks • SDXC logo is a trademark of SD-3C, LLC. • Microsoft, Windows and Windows Vista are registered trademarks of Microsoft Corporation in the United States of America and other countries. • Macintosh and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries. • ArcSoft®, and its logo are either the registered trademark or trademark of ArcSoft Inc. in the United States and/or other countries. • HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and/or other countries.

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• All other trademarks are the property of their respective owners. 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 on our website. Thank you for your cooperation. Refer to “Product Registration on the Internet” (p.198) for more information. To users of this camera • Do not use or store this camera 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 display, damage the stored data, or affect the camera’s internal circuitry and cause camera misoperation. • The liquid crystal panel used for 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. • There is a possibility that the illustrations and the screen display in this manual are different from the actual ones. • In this manual, SD Memory Cards, SDHC Memory Cards and SDXC Memory Cards are referred to as SD Memory Cards. • In this manual, the generic term “computer(s)” refers to either a Windows PC or a Macintosh. • In this manual, the term “battery(ies)” refers to any type of batteries used for this camera and its accessories.

Using Your Camera Safely We have paid close attention to the safety of this camera. When using this camera, we request your special attention regarding items marked with the following symbols. Warning This symbol indicates that ignoring this item could cause serious personal injuries.

This symbol indicates that ignoring this item could cause minor or medium personal injuries, or loss of property. Caution 1 About the Camera Warning • Do not attempt to take the camera apart or modify the camera. High voltages are present within the camera, and there is a danger of electric shock if the camera is taken apart. • If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock. • Wrapping the strap around a 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 service center. Continued use 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 display 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 Power Adapter and the AC Adapter Warning • Always use the power adapter or AC adapter exclusively developed for this camera, with the specified power and voltage. Using a power adapter or AC adapter not exclusive to this camera, or using the exclusive power adapter or AC adapter with an unspecified power or voltage can cause a fire, electric shock, or camera breakdown.



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The specified voltage is 100-240V AC. • Do not disassemble or modify the product. This can cause a fire or electric shock.

• If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue its use and consult your nearest service center. Continued use can cause a fire or electric shock. • If water should happen to get inside the product, consult your nearest service center. Continued use can cause a fire or electric shock. • If you see a lightning flash or hear thunder during use of the power adapter or AC adapter, unplug the AC plug and discontinue use. Continued use can cause damage to the product, fire, or electric shock. • Wipe off the AC plug if it becomes covered with dust. Accumulated dust may cause a fire. Caution • Do not place or drop heavy objects on or forcefully bend the USB cord or AC plug cord. Doing so may damage the cord. Should the cord be damaged, consult your nearest service center. • Do not touch or short-circuit the terminal area of the USB cord or AC plug cord while the cord is plugged in. • Do not handle the AC plug 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 power adapter to charge a battery other than a rechargeable lithium-ion battery D-LI92. This can cause overheating, explosion, or power adapter failure. • 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, 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. • Remove the battery from the camera immediately if it becomes hot or begins to smoke.

Be careful not to burn yourself during removal. • Keep wires, hairpins, and other metal objects away from the + and - contacts of the battery. • Do not short the battery or dispose of the battery in fire. This can cause an explosion or fire. • If any leakage from the battery should come in contact with skin or clothes, it may cause irritation to the skin. Wash the affected areas thoroughly with water. • Precautions for D-LI92 Battery Usage: BATTERY MAY EXPLODE OR FIRE IF MISTREATED. - DO NOT DISASSEMBLE OR DISPOSE OF IN FIRE. - DO NOT CHARGE EXCEPT SPECIFIED CHARGING CONDITION. - DO NOT HEAT ABOVE 140°F / 60°C, OR SHORT CIRCUIT.

- DO NOT CRUSH OR MODIFY. Keep the Camera and its Accessories out of the Reach of Small Children Warning • Be sure to keep the camera and its accessories out of the reach of small children. 1. Injuries may result from the product falling or from unexpected movement. 2.

Suffocation may result from wrapping the strap around the neck. 3. Small accessories such as battery or an SD Memory Card may be swallowed. Seek medical attention immediately if an accessory is accidentally swallowed. 4 Care to be Taken During Handling Before Using Your Camera • When traveling, take the Worldwide Service Network listing that is included in the package.

This will be useful if you experience problems abroad. • When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or when traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc. • The lens on this camera is not interchangeable. The lens is not removable. About the Battery and Power Adapter • To keep the battery in optimum condition it is unusable. • The data on the SD Memory Card may be lost 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 batteries are removed while the card is being 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. • Be sure to format SD Memory Cards that are unused or have been used on another camera. Refer to "Formatting the Memory" (p.167). • When using an SD Memory Card with a slow recording speed, recording may stop while recording a movie even if there is adequate space in the memory, or image capture or playback may take a long time. • Please note that deleting data, or formatting the SD Memory Cards or the built-in memory does not completely erase the original data. Deleted files can sometimes be recovered using commercially available software.

It is user's responsibility to ensure the privacy of such data. 7 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 our drop test (2.0 m height onto a 5 cm thick plywood surface) complying with MIL-Standard 810F Method 516.5-Shock testing.

• The camera satisfies our test for the waterproof, dustproof, and shockproof performance, but this does not guarantee it will remain free of trouble or damages. • Waterproof performance is not guaranteed if the camera is exposed to impact such as being dropped or hit. Precautions Before Using the Camera in the Water Check the Following Before Going Near the Water • Make sure that there are no cracks or scratches on the rubber seal of the battery cover.

Waterproof seal Contact surface • Make sure that there are no foreign objects (dust, sand, hair, lint or liquid) on the rubber seal or the surface they contact before closing the battery cover. Wipe off any foreign objects with a clean lint-free cloth.

• Close the battery cover properly. Otherwise water may get in and damage the camera. 8 Be Careful Near the Water • Avoid opening the battery cover when near the waterside or with wet hands. When changing the battery or the SD Memory Card, avoid places where the camera is likely to get wet or dirty, and make sure that the camera and your hands are completely dry.



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• The camera will sink if dropped in water, so be sure to attach the strap to the camera and wrap it around your wrist when using the camera in or near water. • To enhance the waterproof performance of the camera, the front of the lens is protected by glass. The glass should be kept clean at all times, as any dirt or water on the glass will affect the quality of pictures taken. *Precautions When Using the Camera in the Water* • Do not use the camera deeper than 14 meters underwater. Do not use the camera underwater for more than 120 minutes consecutively. • Do not open the battery cover underwater.

• Do not use the camera in hot water or in a hot spring. • Do not apply excessive force to the camera, for example diving into water with it. Doing so may compromise the waterproof performance of the camera or cause the cover to open. • Do not leave the camera on the sand at the beach, as this may cause the camera to exceed the upper limit of its operational temperature range, or cause the speaker or microphone to become blocked with sand. • Avoid subjecting the camera to substantial vibrations, shocks, or pressure as this may cause a loss in waterproof performance. If the camera is subjected to substantial vibrations, shocks or pressure, take your camera to your nearest service center and have it checked. • Avoid getting sunscreen or sun oil on the camera as it may cause discoloration of the surface. If any oil gets on the camera, wash it off immediately with warm water. • Sudden and extreme changes in temperature may cause condensation to form in and on the camera. Keep the camera in a bag or case to reduce the difference in temperature.

9 Precautions After Using the Camera in the Water • Do not open the battery cover if the camera is wet. Wipe off any water with a clean lint-free cloth. • The inside surface of the cover may get wet when it is opened. Wipe off any water that is on the cover. • Wiping off the camera while there is sand or dust on it may scratch the surface of the camera.

Make sure that the battery cover is firmly closed before washing the camera in tap water. After washing the camera, dry it with a soft cloth. • Wipe off any dirt or sand on the waterproof seal or the contact surface. The camera's waterproof performance may be compromised by a loose seal, or cracks or dents on the seal or the contact surface. If there is any such damage, contact your nearest service center.

• If the camera becomes very dirty or after it has been used in the sea, make sure that it is turned off and the battery cover is firmly closed before rinsing it under running tap water or leaving it in a bowl of clean water for a short time (2 or 3 minutes). • Avoid cleaning with agents such as soapy water, mild detergents, or alcohol as this may compromise the waterproof performance of the camera. • To maintain the waterproof performance of the camera, you are recommended to change the waterproof seal once a year. Contact your nearest service center regarding changing the seal. (A charge will be made.) • The camera's accessories are not waterproof. *10 Contents Using Your Camera Safely*

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..... 244 15 In this manual, the method for operating the four-way controller is shown in illustrations, such as in the ones below. 2 2 or 2 4 or 4 4 3 5 3 or 5 or 5 3 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. 16 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 them from the camera. 4 5 Editing and Printing — This chapter explains the various ways of printing still pictures and how to edit them with the camera. 5 6 Settings — This chapter explains how to set camera-related functions. 6 7 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. 7 8 Appendix — This chapter provides some basic troubleshooting tips and other useful information. 8 17 Checking the Contents of the Package 1 Getting Started 1 Getting Started 18 Camera RICOH WG-4 GPS/ RICOH WG-4 Carabiner strap (*1) Software (CD-ROM) S-SW145 USB cable I-USB7 (*2) Rechargeable lithium-ion Power adapter D-PA135/ battery D-LI92 (*2) AC plug adapter D-PL135 (*3) Operating Manual (this manual) Quick Guide Macro stand O-MS2 By visiting www.



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ricoh-imaging.

eu you will be able to download the operating manual, to register your product, to apply for newsletters or to find the latest firmware information. *1 As listed below, the type of the carabiner strap supplied with the camera varies depending on the model or body color of the camera. <RICOH WG-4 GPS> Black :

Carabiner strap O-ST144 (Black & White) Blue : Carabiner strap O-ST145 (Black & Lime Yellow) <RICOH WG-4> Silver : Carabiner strap O-ST144 (Black & White) Lime Yellow : Carabiner strap O-ST145 (Black & Lime Yellow) *2 Available as optional accessories. *3 The AC plug adapter is attached to the power adapter. Names of Parts Front Power button/Power lamp (green) Lens Shutter release button Self-timer lamp/ Focus assist light Flash 1 Getting Started Sub-display (*) Microphones Remote control receiver Strap lug LED Macro Lights (*) Only available with the RICOH WG-4 GPS.

Back Release latch Battery cover Display Remote control receiver Tripod socket Speakers Battery cover lock USB/AV terminal HDMI terminal Battery lock lever 19 Names of Operating Parts Power button Shutter release button W/T/f/y button Q button Movie button Four-way controller 4 button 3 button Green/i button 1 Getting Started Macro stand 20 Refer to "Understanding the Button Functions" (p.48 - 51) for an explanation of the function of each button.

Attaching the supplied macro stand (O-MS2) reduces camera shake during shooting (1cm-Macro Movie) mode (p.75, p.122). Insert two in (Digital Microscope) or clips into the slits in upper and lower sides of the LED Macro Lights part. When attaching and detaching the macro stand, do not hold the clip part. * When using the macro stand, the camera may not be able to focus if the objects have uneven surfaces. Display Indications Display in A Mode The display changes in the following sequence each time you press the 4 button: "Normal Display", "Histogram + Info", "Electronic Compass Display", "Grid Display", "No Info", "LCD Off". • All the camera buttons function as normal even when the LCD is off.

Press the shutter release button to take pictures as normal. • The display cannot be changed in some shooting modes. • Only the RICOH WG-4 GPS can display the electronic compass. If you are using the RICOH WG-4, the display changes to the Grid Display by pressing the 4 button at the Histogram + Info display. 1 Getting Started Normal Display 36m Histogram + Info OK 36m 38 38 12M AWB WB ISO IS 200 20 OK OK LCD Off Electronic Compass Display W N 35°45'52" W 123°45'52" N N 3776m N E W 0° W S E S E 04/04/ 2014 OK No Info Grid Display OK S 08:24 AM OK 21 Normal Display/ Histogram + Info/ Grid Display in Still Picture Capture Mode 1 to 22 and A1 appear when "Normal Display" is selected. B1 to B6 appear at the position of 20 when "Histogram + Info" is selected. Only A1 appears when "Grid Display" or "No Info" is selected. 1 Getting Started 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 22 11 12 1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18 19 A1 B5 P DATE 36m +1.0 1/250 F3.5 38 21 22 12M AWB ISO IS 200 20 B6 B1 B2 B3 B4 04/04/2014 14:25 20 Shooting mode (p.

67) 17 Battery level indicator (p.36) Face Detection icon (p.99) 18 Date Imprint setting (p.106) EV Compensation (p.95) 19 Shutter speed 20 Aperture 21 Shake Reduction icon (p.

97) 22 Memory status (p.41) A1 Remaining image storage capacity B1 Flash Mode (p.83) B2 Drive Mode (p.77 - p.81) B3 Focus Mode (p.84) B4 Eye-Fi communication status (p.181) B5 Height/air pressure B6 (RICOH WG-4 GPS only) (p.189) 16 Digital zoom/Intelligent Zoom icon (p.64) GPS status (RICOH WG-4 GPS only) GPS log icon (RICOH WG-4 GPS only) Electronic Level (p.29) Date and time (p.46) World Time setting (p.172) D-Range Setting (p.96) Focus frame (p.61) Recorded Pixels (p.89) Quality Level (p.

90) White Balance (p.91) AE Metering (p.93) Histogram (p.28) Sensitivity (p.94) * 6 and 7 are only displayed when the shutter release button is pressed halfway. * For 8, M appears if the shutter release button is pressed halfway when [Shake Reduction] in the [A Rec. Mode] menu is set to [Sensor Shift] or [Dual]. l appears when [Shake Reduction] is set to [Off]. * For 13, when the focus mode is set to = and the Auto Macro function is activated, q appears on the display (p.84).

* 14 changes depending on [Eye-Fi] setting in the [W Setting] menu. * 15 changes depending on [Pressure Sensor] settings in [W Setting] menu. * 17 changes depending on [GPS] settings in [WSetting] menu. No icon is displayed on the screen when [GPS On/Off] is set to [Off]. * 18 appears when recording the GPS log.

* 20 disappears for two seconds after the camera is turned on. * 22 changes depending on [D-Range Setting] settings in the [A Rec. Mode] menu. No icon is displayed on the screen when [Highlight Correction] and [Shadow Correction] are both set to [Off]. * 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.

* If there are overexposed highlight areas in the image, they will blink red on the display, and if there are underexposed shadow areas, they will blink yellow.

* Some indications may not appear depending on the shooting mode. 1 Getting Started 23 Electronic Compass Display in Still Picture Capture Mode (displayed only on the RICOH WG-4 GPS) 4 1 Getting Started 1 2 3 4 0° 90° 180° 270° 5 W 1 2 N 35°45'52" W 123°45'52" N N 3776m N E 6 7 W 0° W S E S E 3 04/04/ 2014 GPS latitude GPS longitude Current date Height/air pressure * 4 changes depending on [Pressure Sensor] settings in [W Setting] menu. * 5 changes depending on [GPS] settings in [W Setting] menu. No icon is displayed on the screen when [GPS On/Off] is set to [Off]. * 7 changes depending on the current lens direction. Relationship between the displayed degrees and the lens direction is as follows: When the lens points to the north When the lens points to the east When the lens points to the south When the lens points to the west * The normal display appears if you press the shutter release button halfway. Press the 4 button twice to display the Electronic Compass Display again. 24 S 08:24 AM 5 6 7 8 8 GPS status Battery level indicator Lens direction Current time Display in Q Mode The display shows the shooting information of the image in playback mode. The display changes in the following sequence each time you press the 4 button: • The display cannot be changed by pressing the 4 button while playing back or pausing a movie.

• Only the RICOH WG-4 GPS can display Info 2. If you are using the RICOH WG-4, the display changes to the normal display by pressing the 4 button at no info display. 1 Getting Started Normal Display 100 0038 10 - 003 Info 1 100 003 10 - 0038 OK 1/250 F3.



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5 Edit 04/04/2014 14:25 Edit 12M AWB WB ISO IS 200 20 OK 100 003 10 - 0038 3200m 700hPa 180 04/04/'14 06: 25: 00 N 35 45' 52" W139 41' 29" OK OK Edit Edit Info 2 No Info 25 Normal Display/ Info 1 in Playback Mode (All of the display items are displayed here for explanatory purposes.) The display shows information such as the shooting conditions. In "Normal Display", A1 to A10 are displayed. In "Info 1", B1 to B8 are displayed as well. 1 Getting Started A1 A2 A3 A4 A5 A6 A7 A8 A9 26 A1 A2 A3 A4 B1 B2 A5 100 0038 10 - 003 1/250 F3.5 A6 A7 A8 A9 A10 B3 Edit 12M B5 B6 AWB WB B7 ISO IS 200 20 B4 B8 Face Detection icon (p.99) A10 Playback mode B1 Q : Still picture (p.125) B2 K : Movie (p.126) B3 Battery level indicator (p.36) B4 Protect icon (p.139) B5 Four-way controller guide B6 File number B7 Folder number (p.175) B8 Memory status (p.

41) Eye-Fi communication status (p.181) Volume icon Shutter speed Aperture Histogram (p.28) Sensitivity (p.94) Recorded Pixels (p.89) Quality Level (p.90) White Balance (p.91) AE Metering (p.93) * A1 appears only if the Face Detection function worked when the image was shot. * In "Normal Display", A3 disappears if no operation is performed for two seconds. * A5 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 "Info 1", only "Edit" disappears. * A10 appears only when the volume is being adjusted during playback of movies (p.126). * When "Normal Display" is selected, the current date and time appears for two seconds in the B4 to B8 positions. * If there are overexposed highlight areas in the image, they will blink red on the display, and if there are underexposed shadow areas, they will blink yellow.

Info 2 in Playback Mode (displayed only on the RICOH WG-4 GPS) 1 2 3 4 6 7 100 - 003 10 0038 3200m 700hPa 180 04/04/'14 06: 25: 00 N 35 45' 52" W139 41' 29" 9 10 11 12 13 14 15 16 Folder number Memory status Height Air pressure Lens direction GPS time GPS latitude GPS longitude 5 Edit 1 2 3 4 5 6 7 8 Face Detection icon Playback mode Battery level indicator Protect icon Four-way controller guide Volume icon Eye-Fi communication status File number 8 9 10 11 12 13 14 15 16 1 Getting Started * 6 appears only when the volume is being adjusted during playback of movies (p.126). * "-" appears at 11 and 12 when [Pressure Sensor] is set to [Off] (p.189). * (height) appears at 11 and (air pressure) at 12 when [Not underwater] is selected for [Camera Location] in [Pressure Sensor]. (water depth) appears at 11 and (underwater pressure) at 12 when [Underwater] is selected for [Camera Location] in [Pressure Sensor] (p.189). * 13 displays the lens direction during shooting. "0°" is displayed when the lens pointed to the north at the time of shooting (p.24). * 14 is displayed in GPS time (the reference time scale of the GPS system). This may be different from the time you have set on the camera. Guide Display A guide indicator for each available button or key 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 button 4 button Shutter release button SHUTTER X (green), i Green/i button (red) Movie button OK 27 Histogram 1 Getting Started 28 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 Dark portions Bright portions 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.95 Understanding Brightness If the brightness is correct, the graph peaks in the middle. If the image is underexposed, the peak is on the left side, and if it is overexposed, the peak is on the right side. Dark image Correct image Bright image Number of pixels → When the image is underexposed, the part to the left is cut off (dark portions) and when the image is overexposed, the part to the right is cut off (bright portions).

This camera has a function where overexposed areas are indicated as blinking red and underexposed areas 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. Electronic Level This camera is equipped with an electronic level for detecting whether the camera is level. When [Electronic Level] is set to O (On) in the [A Rec. Mode] menu, the electronic level can be displayed, and you can check how level the camera is (p.108). The horizontal bar scale shows a tilt to the left or right (horizontal tilt) and the vertical bar scale shows a tilt upward or downward (vertical tilt). The number of increments on the scales and the color of bar scale show the camera angle. Display examples: 1 Getting Started Horizontally and vertically level (green) Tilted 1° to the right (yellow) Vertically level (green) Horizontally level (green) Tilted 2.

5° up (red) Outside horizontal level display (red) Outside vertical level display (red) • If the camera angle cannot be detected, both ends and the center of the bar scale flash red. • The displayed angle on the electronic level is only a guide. There is no guarantee that the display is accurate. 29 Sub-display Indicator (RICOH WG-4 GPS Only) 1 Getting Started 30 When the camera is turned off, information such as the current time and air pressure is displayed on the sub-display on the camera's front side. 1 2 1 2 Current time Height/air pressure * 2 changes depending on [Pressure Sensor] settings in [W Setting] menu (p.189). • The sub-display's back light turns on for five seconds when the shutter release button is pressed fully. • You can change the display items by pressing the zoom button. The items are switched as follows each time the zoom button right is pressed: Current time → current time + height → current time + air pressure Press the zoom button left to change the items in the opposite order. Nothing is displayed at 2 when [Off] is selected for [Pressure Sensor]. • The height that can be displayed on the sub-display is between -300 to 4000 meters when [Not underwater] is selected for [Camera Location]. When the height reaches -300 or 4000 meters, the height value on the subdisplay blinks. The displayed value is between -15 to 0 meters when [Underwater] is selected ("d" is displayed instead of "-" on the sub-display).



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When the water depth reaches -15 meters, the water depth value on the sub-display blinks. Attaching the Carabiner Strap Attach the carabiner strap supplied with the camera.

1 Getting Started 1 2 Pass the end of the strap through the strap lug on the camera. Fix the end of the strap to the stopper. Protective rubber ring The carabiner has rubber rings to prevent damage to the display. These rubber rings cushion the impact when the carabiner hits the display. Be sure to adjust the positions of the rubber rings as shown in the figure below for the best results before using the carabiner strap.

31 Powering the Camera Installing the Battery Use the rechargeable lithium-ion battery D-LI92 that is provided with the camera. Battery lock lever Battery cover lock Release latch 1 Getting Started 32 Battery cover Battery 1 2 3 Slide the battery cover lock as indicated by 1, and release the lock. Slide the release latch as indicated by 2, and open the battery cover towards 3. Using the side of the battery to push 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. If the battery is incorrectly oriented, malfunction may result. 4 Close the battery cover, and slide the release latch in the opposite direction indicated by 2. Make sure that the yellow indicator cannot be seen and the cover is completely closed. 5 Slide the battery cover lock in the opposite direction indicated by 1. Make sure that the yellow indicator cannot be seen and the cover is completely locked.

1 Getting Started Removing the Battery 1 2 Open the battery cover. Push 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 opening and closing the battery cover because the waterproof seal may peel off. If the seal is not in the correct position, the camera will not be waterproof. • If the battery cover is not locked securely, water, sand, or dirt may get into the camera. • This camera uses a rechargeable lithium-ion battery D-LI92. 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 power adapter 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 settings 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.

33 Charging the Battery 1 Getting Started Connect the supplied power adapter (D-PA135) to the camera and charge the battery before using it for the first time or after a long period of non-use, or when the [Battery depleted] message appears. Power lamp While charging: Blinks Charging finished: Turns off To power outlet 2 3 Power adapter USB cable 1 1 2 3 4 5 6 7 Make sure that the camera is turned off and open the battery cover. Connect the USB cable to the power adapter. Connect the USB cable to the camera. Plug the power adapter into the power outlet. The power lamp blinks while charging. When charging is finished, the power lamp turns off. The battery cover will not close while charging. Leave the cover open when charging and do not attempt to close it. Unplug the power adapter from the power outlet when charging is finished.

Remove the USB cable from the camera. Close the battery cover. 34 • Do not charge batteries other than the rechargeable lithium-ion battery DLI92 using the supplied power adapter (D-PA135). 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 camera is connected to the power outlet but the charging indicator fails to light, the battery may be faulty. Replace it with a new battery. • When charging the battery, you cannot set the camera upright on the table because the USB cable comes out of the bottom of the camera. • Do not use excessive force when sliding the battery cover open and closed because the waterproof seal may peel off. If the seal is not in the correct position, the camera will not be waterproof. • The time required to fully charge the battery is about 180 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).

• You cannot turn on the camera while it is charging. 1 Getting Started • Image Storage Capacity, Movie Recording Time, and Playback Time (at 23°C (73.4°F) with the display on and the battery fully charged) Image Storage Capacity*1 (flash used for 50% of shots) Approx. 240 pictures Movie Recording Time*2 Approx. 65 min.

Playback Time*2 Approx. 200 min. *1 The image storage capacity shows the approximate number of shots recorded during CIPA-compliant testing (at 23°C (73.4°F) with display on and flash used for 50% of the shots). Actual performance may vary according to operating conditions. *2 According to the results of in-house testing. • 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 recover when the temperature returns to normal. • If [GPS On/Off] of the [GPS] settings is set to [On], the camera performs GPS positioning regularly even while the camera power is off, which reduces the battery life.

• Using the camera's pressure sensor to determine the current air pressure and height reduces the battery's life. • 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. 35 • Battery Level Indicator You can check the battery level by the indicator on the display. Screen Display Battery Status Adequate power remains. Battery is running low. Battery is running very low. Battery is exhausted. The camera will turn off after this message appears. (green) (green) (yellow) (red) [Battery depleted] 1 Getting Started 36 Using the AC Adapter Use of the optional AC adapter kit (K-AC117) is recommended if you intend to use the camera for a long time or connect it to a computer. Note: AC plug cord "Listed, Type SPT-2 or NISPT-2, 18/2 flexible cord, rated 125 V, 7A, minimum 6 ft.



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(1.8 m) 1 Getting Started 1 6 5 DC terminal 3 4 DC coupler 1 2 3 Make sure that the camera is turned off and open the battery cover. Remove the Battery. Refer to p.32 - p.33 on how to open the battery cover and remove the battery. Insert the DC coupler. Using the side of the DC coupler to push the battery lock lever, insert the DC coupler. Confirm that the DC coupler is locked in place. The battery 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 the data is being recorded on the SD Memory Card or in the built-in memory. • Use the AC adapter with due care to avoid fire or electric shock. Be sure to read "About the Power Adapter and the AC Adapter" (p.3) before using the AC adapter.

- Be sure to read the operation manual accompanying the AC adapter kit KAC117 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 cover open and closed because the waterproof seal may peel off. If the seal is not in the correct position, the camera will not be waterproof.

Installing an SD Memory Card This camera uses SD Memory Cards, SDHC Memory Cards or SDXC Memory Cards. Captured images are saved on the SD Memory Card if a card is inserted in the camera. They are saved in the built-in memory if a card is not inserted (p.41). • Be sure to use this camera to format (initialize) an SD Memory Card that is unused or has been previously used on other cameras or digital devices. Refer to "Formatting the Memory" (p.167) for instructions on formatting cards. • 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 cover open and closed because the waterproof seal may peel off.

If the seal is not in the correct position, the camera will not be waterproof. • The number of still pictures that can be stored varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels and quality level (p.220). • 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 Battery cover SD Memory Card socket SD Memory Card 1 2 3 Slide the battery cover lock as indicated by 1, and release the lock. Slide the release latch as indicated by 2, and open the battery cover towards 3. Insert an 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 may not be recorded correctly if the card is not inserted all the way. To remove the SD Memory Card, push it in once and then pull it out. 4 5 Close the battery cover, and slide the release latch in the opposite direction indicated by 2. Slide the battery cover lock in the opposite direction indicated by 1. Make sure that the lever clicks and the cover is locked.

If the battery cover is not locked securely, water, sand, or dirt may get into the camera. • The image file size varies depending on the number of recorded pixels and the number of images that can be saved on an SD Memory Card also varies. • Set the number of recorded pixels for still pictures from the [A Rec. Mode] menu and for movies from the [C Movie] menu. • For an approximate number of still pictures and amount of time of movies that can be saved on an SD Memory Card, see "Main Specifications" (p.219). 40 Turning the Camera On and Off Power button/Power lamp 1 Getting Started 1 Press the power button. 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.43 to set the display language and/ or current date and time.

2 Press the power button again. The camera turns off and both the power lamp and display turn off. Taking Still Pictures 1p.61 Checking the SD Memory Card The SD Memory Card is checked when the camera turns on and the memory status is displayed. a + r The SD Memory Card is inserted. Images will be saved on the SD Memory Card. 38 The SD Memory Card is not inserted. Images will be saved in the built-in memory. Memory status The write-protect switch on the SD Memory Card is in the LOCK position (p.7). Images cannot be recorded. 41 Starting-up in Playback Mode 1 Getting Started Use this function when you want to play back images straightaway without taking any picture. Power button Q button 1 Press and hold down the Q button. The display turns on and the camera starts up in playback mode. • To switch from playback mode to capture mode, press the Q button or press the shutter release button halfway. • In order to set the camera not to start up in playback mode, set [Playback Mode] to P (Off) from [Startup Shortcut] in the [W Setting] menu. (p.186) Playing Back Still Pictures 1p.125 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.46) 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.174). • To change the date and time, follow the steps in "Changing the Date and Time" (1p.169). 1 Getting Started Setting the Display Language Four-way controller 4 button 3 button 1 2 Use the four-way controller (2345) to choose the display language. 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 9. Initial Setting English Hometown New York Settings complete MENU DST OFF Cancel Daylight saving time 43 3 1 Getting Started 44 Press the four-way controller (3).



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The frame moves to [W Hometown]. Initial Setting English Hometown New York Settings complete MENU DST OFF Cancel 4 5 Press the four-way controller (5). The [W Hometown] screen appears.

Use the four-way controller (45) to choose a city. Hometown City DST MENU New York OK Cancel OK 6 7 8 9 10 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 reappears. Press the four-way controller (3) to select [Settings complete]. Press the 4 button. The [Date Adjustment] screen appears. Next, set the date and time. 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 desired language and press the 4 button. The [Initial Setting] screen appears in the selected language. 1 Getting Started □When the Screen After Step 2 Appears in the Wrong Language 1 Press the 3 button.

This exits the setting screen and returns the camera to capture mode. 2 3 4 5 6 7 Press the 3 button. The [A Rec. Mode] menu appears. Press the four-way controller (5) twice. 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 desired language. Press the 4 button.

The [W Setting] menu appears in the selected language. The language is now switched to your desired language. To reset [Hometown], [Date] and [Time], refer to the pages below for instructions. •To change the Hometown city, follow the steps in “Setting the World Time” (1p.172).

•To change the date and time, follow the steps in “Changing the Date and Time” (1p.169). 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 output format. •Video output formats available initially: “List of World Time Cities” (1p.

218) •To change the video output format: “Changing the Video Output Format” (1p.179). 45 Setting the Date and Time Set the current date and time and the display format. 1 Getting Started 46 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 format. Choose from [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd]. Date Adjustment Date Format Date Time mm/dd/yy 24h 01/01/2014 00:00 Settings complete MENU Cancel 3 4 5 6 7 8 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).

Press the four-way controller (5). The frame returns to [Date Format]. Press the four-way controller (3). The frame moves to [Date]. Press the four-way controller (5). The frame moves to the month. Use the four-way controller (23) to change the month. Change the day and year in the same manner. Next, change the time. If you selected [12h] in step 4, the camera switches between am and pm corresponding to the time.

9 10 Press the four-way controller (3) to select [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 0 seconds. To set the exact time, press the 4 button when the time signal (on the TV, radio, etc.

) reaches 0 seconds. When the [Initial Setting] or [Date Adjustment] screen is displayed, you can cancel the setting operation and switch to capture mode by pressing the 3 button. In this case, the [Initial Setting] screen will appear next time you turn the camera on. 1 [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.174). •To change the date and time, follow the steps in “Changing the Date and Time” (1p.169). •To change the Hometown city or turn the DST setting on and off, follow the steps in “Setting the World Time” (1p.172). 47 Getting Started Understanding the Button Functions A Mode 1 2 3 4 5 6 7 9 8 2 Common Operations 2 Common Operations 1 2 3 Q button Switches to Q mode (p.52). Power button Turns the camera on and off (p.41).

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.62). Takes a still picture when pressed down fully (p.62). Pressing down fully starts and stops movie recording in C (Movie), (Underwater Movie), (High Speed Movie), c (Time-Lapse Movie), and (1cm-Macro Movie) modes (p.110, p.112, p.120, p.121, and p.122).

4 5 W/T button Changes the captured area (p.64). Movie button Starts movie recording in Still Picture Capture Mode (p.114). Displays the shutter speed adjustment screen in b (Shutter Priority) mode.

48 6 Four-way controller (2) (3) (4) (5) (23) : : : : Changes the drive mode (p.77 - p.81). Displays the Capture Mode Palette (p.68).

Changes the flash mode (p.83). Changes the focus mode (p.84). Adjusts the focus when the focus mode is set to \ (p.85). 7 8 Green button Switches to 9 (Green) mode (p.71). Calls up the assigned function (p.102).

2 Common Operations 3 button In Still Picture Capture Mode, [A Rec. Mode] menu appears. In Movie Mode, [C Movie] menu appears (p.53). 9 4 button Changes the information on the display (p.21). 49 Q Mode 1 2 3 2 Common Operations 50 4 5 6 8 7 1 2 3 4 Q button Switches to A mode (p.52). Power button Turns the camera on and off (p.41).

Shutter release button Switches to A mode (p.52). f/y button In single-image display, pressing f switches to 6-image display. Pressing f again switches to 12-image display (p.127).

Press y to return to the previous display. In single-image display, pressing y magnifies the image. Press f to return to the previous display (p.135). In 12-image display, press f to change to folder or calendar display (p.

128). In folder/calendar display, press y to change to 12-image display (p.128). Adjusts the volume during playback of movies (p.126). 5 Four-way controller (2) (3) (45) : Plays back and pauses a movie (p.126). : Displays the Playback Mode Palette (p.131). Stops a movie during playback (p.

126). : Displays the previous or next image during single-image display (p.125). Fast-forwards, fast-reverses, frame forwards, and frame reverses during movie playback (p.126). : Changes the position of the area to be magnified during zoom display (p.135). Selects an image in 6- or 12-image display, a folder in folder display, and a date in calendar display (p.127, p.128).

Adjusts the position of a frame or an image when you are using the Original Frame function (p.156). (2345) 2 Common Operations 6 Green/i button Switches from single-image display to the Delete screen (p.



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