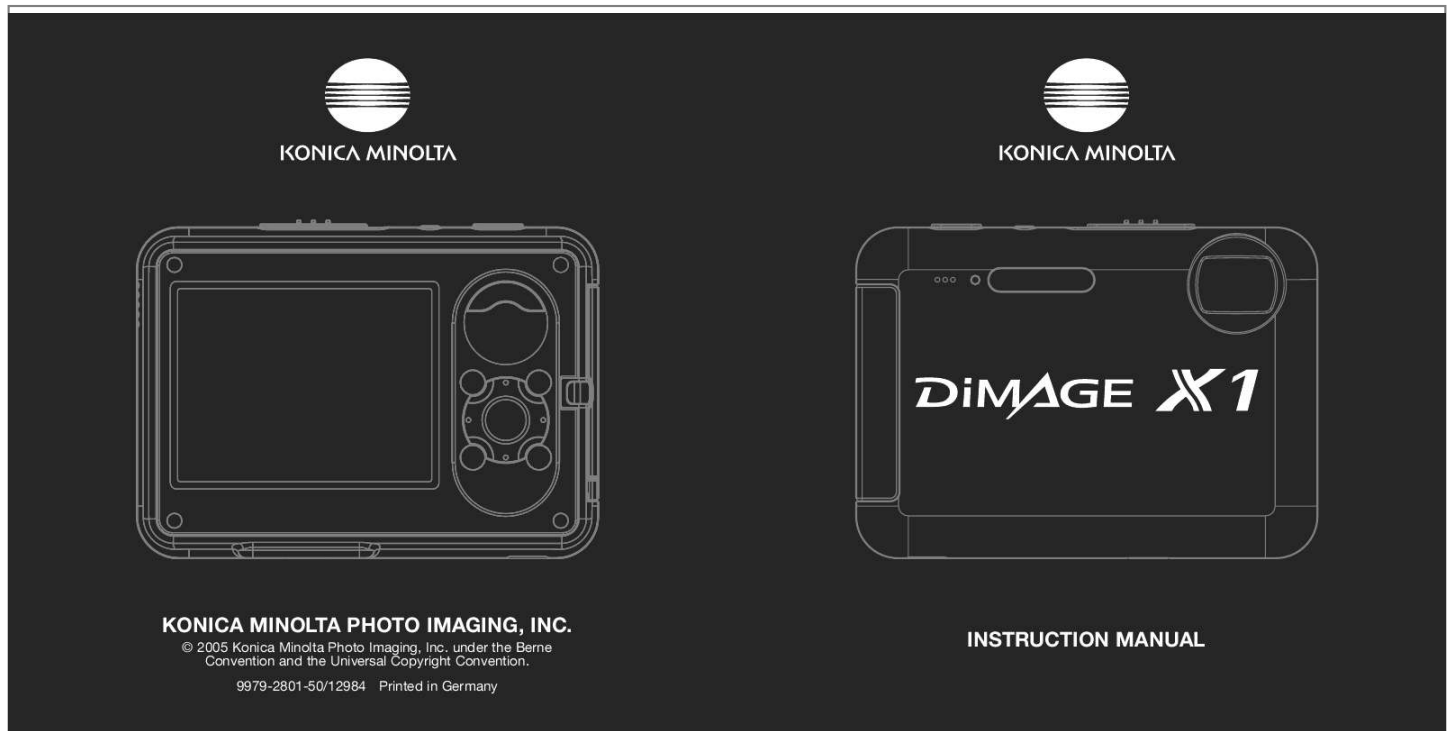




# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA DIMAGE X1. You'll find the answers to all your questions on the KONICA MINOLTA DIMAGE X1 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual KONICA MINOLTA DIMAGE X1**  
**User guide KONICA MINOLTA DIMAGE X1**  
**Operating instructions KONICA MINOLTA DIMAGE X1**  
**Instructions for use KONICA MINOLTA DIMAGE X1**  
**Instruction manual KONICA MINOLTA DIMAGE X1**



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<http://yourpdfguides.com/dref/2650184>

**Manual abstract:**

@@@ @ @ @ @ @ Eine Suchfunktion gibt Ihnen Antworten auf häufig gestellte Fragen zu Hardware und Software. Aktuelle Software, Treiber und Firmware finden Sie hier ebenso wie die Telefonnummern zu unseren Support-Mitarbeitern. Picture: Konica Minolta Photoworld Member Professor Claes Magnusson/Sweden  
**BEFORE YOU BEGIN** Thank you for purchasing this product. Please take the time to read through this instruction manual so you can enjoy all the features of your new digital camera. Check the packing list before using this product. If any items are missing, immediately contact your camera dealer. DiMAGE X1 digital camera Lithium-ion battery NP-1 Cradle CA-1 Hand strap HS-DG150 USB cable USB-3 AV cable AVC-700 SD Memory Card Digital Camera Software CD-ROM DiMAGE Master Lite instruction manual CD-ROM Camera manual Warranty card Only use the battery specified in this manual that are manufactured and distributed by Konica Minolta. Beware of counterfeit batteries; the use of these batteries will damage the product and may cause fire.

While reasonable efforts have been made to assure the accuracy of this information, Konica Minolta assumes no liability or responsibility for any errors or omissions of this instruction manual. Konica Minolta is a trademark of Konica Minolta Holdings, Inc.

DiMAGE is a trademark of Konica Minolta Photo Imaging, Inc. Apple, Macintosh, and Mac OS are registered trademarks of Apple Computer Inc. QuickTime and the Quick Time logo are trademarks or registered trademarks of Apple Computer, Inc., used under license. Microsoft, Windows, and Windows XP are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

The official name of Windows is Microsoft Windows Operating System. Pentium is a registered trademark of the Intel Corporation. EasyShare is a registered trademark or trademark of Eastman Kodak Company in the United States and other countries. All other brand and product names are trademarks or registered trademarks of their respective owners. **FOR PROPER AND SAFE USE** Lithium-ion batteries This camera operates on a small, but powerful lithium-ion battery.

Misuse or abuse of the lithium ion battery can cause damage or injury through fire, electric shock, or chemical leakage. Read and understand all warnings before using the battery. **DANGER** · Do not short, disassemble, damage, or modify the battery. · Do not expose the battery to fire or high temperatures over 60°C (140°F). · Do not expose the battery to water, or moisture. Water can corrode or damage the internal battery safety devices and cause the battery to overheat, ignite, rupture, or leak. · Do not drop or subject the battery to strong impacts. Impacts can damage the internal battery safety devices and cause the battery to overheat, ignite, rupture, or leak. · Do not store the battery near or in metallic products. · Do not use the battery with any other products.

· Only use the specified cradle. An inappropriate cradle may cause damage or injury through fire or electric shock. · Do not use a leaking battery. If fluid from the battery enters your eye, immediately rinse the eye with plenty of fresh water and contact a doctor. If fluid from the battery makes contact with your skin or clothing, wash the area thoroughly with water. · Only use or charge the battery in an environment with ambient temperatures between 0° and 45°C (32° and 113°F). Only store the battery in an environment with ambient temperatures between 20° and 50°C (4° and 122°F) and a humidity of 45% to 85% RH. **WARNING** · Tape over the lithium-ion battery contacts to avoid short-circuiting during disposal; always follow local regulations for battery disposal. · If charging is not completed after the specified period elapses, unplug the cradle and discontinue charging immediately. 2 Before you begin 3 GENERAL

**WARNINGS AND CAUTIONS** Read and understand the following warnings and cautions for safe use of the digital camera and its accessories.

**WARNING** · Only use the battery specified in this manual. · Only charge the battery specified in this manual with the supplied cradle. · Only use the specified cradle or AC adapter within the voltage range indicated on the unit. An inappropriate adapter or current may cause damage or injury through fire or electric shock. · Only use the cradle power cord in the sales region for which it was designed.

An inappropriate current may cause damage or injury through fire or electric shock. · Do not disassemble the camera or cradle. Electric shock may cause injury if a high voltage circuit inside the product is touched. · Immediately remove the battery or unplug the AC adapter and discontinue use if the camera is dropped or subjected to an impact in which the interior, especially the flash unit, is exposed. The flash has a high voltage circuit which may cause an electric shock resulting in injury.

The continued use of a damaged product or part may cause injuries or fire. · Keep the battery, memory card, or small parts that could be swallowed away from infants. Contact a doctor immediately if an object is swallowed. · Store this product out of reach of children. Be careful when around children not to harm them with the product or parts. · Do not fire the flash directly into the eyes. It may damage eyesight. · Do not fire the flash at vehicle operators. It may cause a distraction or temporary blindness which may lead to an accident. · Do not use the monitor while operating a vehicle or walking.

It may result in injury or an accident. · Do not use these products in a humid environment, or operate them with wet hands. If liquid enters these products, immediately remove the battery or unplug the product, and discontinue use. The continued use of a product exposed to liquids may cause damage or injury through fire or electric shock. · Do not use these products near inflammable gases or liquids such as gasoline, benzene, or paint thinner. Do not use inflammable products such as alcohol, benzene, or paint thinner to clean these products. The use of inflammable cleaners and solvents may cause an explosion or fire. · When unplugging the AC adapter or cradle, do not pull on the power cord. Hold the plug when removing it from an outlet. · Do not damage, twist, modify, heat, or place heavy objects on the AC adapter or cradle cord.

A damaged cord may cause damage or injury through fire or electric shock. · If these products emit a strange odor, heat, or smoke, discontinue use. Immediately remove the battery taking care not to burn yourself as the battery may become hot with use. The continued use of a damaged product or part may cause injuries or fire. · Take the product to a Konica Minolta service facility when repairs are required.

4 For proper and safe use 5 **CAUTION** · Do not use or store these products in a hot or humid environment such as the glove compartment or trunk of a car.



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[MINOLTA DIMAGE X1 user guide](http://yourpdfguides.com/dref/2650184)

<http://yourpdfguides.com/dref/2650184>

*It may damage the camera, cradle, and battery which may result in burns or injuries caused by heat, fire, explosion, or leaking battery fluid. · If the battery is leaking, discontinue use of the product. · The camera, cradle, and battery temperature rises with extended periods of use. Care should be taken to avoid burns. · Burns may result if the memory card or battery is removed immediately after extended periods of use. Turn the camera off and wait for it to cool. · Do not fire the flash while it is in contact with people or objects. The flash unit discharges a large amount of energy which may cause burns. · Do not apply pressure to the LCD monitor. A damaged monitor may cause injury, and the liquid from the monitor may cause inflammation. If liquid from the monitor makes contact with skin, wash the area with fresh water. If liquid from the monitor comes in contact with the eyes, immediately rinse the eyes with plenty of water and contact a doctor. · When using the AC adapter and cradle, insert the plug securely into the electrical outlet. · Do not use electronic transformers or travel adapters with the cradle.*

*The use of these devices may cause a fire or damage the product. · Do not use if the AC adapter or cradle cord is damaged. · Do not cover the AC adapter or cradle. A fire may result. · Do not obstruct access to the AC adapter or cradle; this can hinder the unplugging of the units in emergencies. · Unplug the AC adapter or cradle when cleaning or not in use. The following marks may be found on the product: This mark on your camera certifies that this camera meets the requirements of the EU (European Union) concerning interference causing equipment regulations. CE stands for Conformité Européenne (European Conformity). This Class B digital apparatus complies with Canadian ICES-003. FCC Compliance Statement Declaration on Conformity Responsible Party: Konica Minolta Photo Imaging USA Inc.*

*Address: 725 Darlington Avenue, Mahwah, NJ 07430 Digital Camera: DiMAGE X1 Tested To Comply With FCC Standards FOR HOME OR OFFICE USE This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.*

*This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the equipment and the receiver. · Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. Do not remove the ferrite cores from the cables. 6 For proper and safe use 7 TABLE OF CONTENTS The getting up and running section covers how to prepare the camera for use. It contains important information about power supplies and memory cards. The basic operation of this camera is covered in the recording - basic operation section between pages 23 and 32, and the playback - basic operation section between pages 33 and 36. Read the data-transfer mode section in its entirety before connecting the camera to a computer. Many of the features of this camera are controlled with menus. The menu navigation sections concisely describe how to change menu settings. Descriptions of the settings immediately follow the navigation sections. The appendix contains a troubleshooting section to help answer questions about the operation of the camera.*

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*...32 Playback - basic operation .....*

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..34 Enlarged playback...

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.....36 *Playback on the cradle...*

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.....36 *Recording - advanced operation* .....

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37 *Movie recording.....*

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.....37 *Navigating the recording menus* .

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..38 *Drive modes* ...

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.40 *Self-timer* ....

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*.40 Continuous advance...*

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*.41 Advanced modes.....*

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*.....42 Progressive Capture ....*

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*43 UHS progressive Capture.....*

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*.43 Multi frame....*

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*44 Image size and image quality.....*

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*.49 Exposure compensation.....*

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*51 Hibrigh LCD.....*

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....52 *Color mode.*

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..53 *Contrast*.....

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*...54 Digital zoom..*

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*...55 9 Date imprinting ..*

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*...56 Custom key function ..*

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*.....57 Recording mode.*

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.....58 *Audio recording* ...

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.....58 *Movie image sizes*...

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.59 *Movie file sizes* .....

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*.59 Optical zoom .....*

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*....59 Movie focus mode.....*

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*....64 Formatting memory cards .....*

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*.....65 Audio caption ...*

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*.....66 Locking files .*

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*..67 Slide show ..*

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*.68 Crop frame .....*

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*.....69 About DPOF ...*

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*.70 DPOF setup....*

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*.70 Date print....*

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.....71 E-mail copy .....

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.....72 Setup mode ...

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.....73 Navigating the setup menu .....

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.....76 Language.

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*.....77 Auto power save ....*

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*...77 Reset default .....*

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*..80 10 Table of contents Viewing images on a television .....*

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*.....81 Transfer mode ...*

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.....82 *Data-transfer mode*.....

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.83 *System requirements* ....

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.83 *Connecting the camera to a computer* .....

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...84 *Connecting to Windows 98 and 98SE* .....

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*..85 Automatic installation ..*  
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*..86 Folder organization...*  
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*.88 Disconnecting the camera from the computer ....*  
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*.90 Windows XP, 2000 Professional, and Me ....*

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*.....90 Macintosh ..*

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*.....91 Changing the memory card - data-transfer mode..*

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*....92 Auto power save - data transfer mode .....*

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.110 11 NAMES OF PARTS \* This camera is a sophisticated optical instrument.

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Care should be taken to keep these surfaces clean. Please read the care and storage instructions in the back of this manual (p. 106). \*\* Appears during operation. Anti-Shake-on indicator (p. 47)\*\* LCD monitor\* Indicator lamp\*\* Zoom lever (p. 24) Mode button (p. 33) Display button (p.

30, 34) Main switch (p. 21) Shutter-release button Microphone Flash\* (p. 28) Recording-mode switch (p. 23) Strap eyelet (p. 14) Self-timer lamp (p. 40) Lens\* Controller Speaker Delete/Flash button (p. 28, 34) Menu button Cradle Battery/Card-chamber door (p. 16-20) Charging lamp Camera contacts\* Tripod socket Cradle port\* 12 Names of parts USB-port / AV-out terminal 13 GETTING UP AND RUNNING ATTACHING THE STRAP Always keep the strap around your wrist in the event that the camera is accidentally dropped. 1. Pass the small loop of the strap through the strap eyelet on the camera body. 2. Pass the other end of the strap through the small loop and tighten. CHARGING THE BATTERY 1 Before the camera can be used, the lithium-ion battery must be charged. Before charging the battery, read the safety warnings on page 3 of this manual. Battery can be charged with or without the camera; see page 17 for charging the battery in the camera. Only recharge the battery with the supplied cradle. The battery should be recharged before each shooting session. See page 107 for battery care and storage. 2 1 Plug the power cord into the back of the cradle (1). Plug the other end of the cord into a live household outlet.

The included AC cord is designed for the current of the sales region. Only use the cord in the region it was purchased. For more on the AC cable, see page 106. 2 With the battery terminals down, slide the battery into the back of the cradle until the tabs in the battery slot catch the top of the battery (2). The printing on the battery should be visible when inserted in the cradle. 3 The charging lamp (3) glows to show the battery is charging. The lamp goes out when the battery has been charged. Charging time is approximately two hours. Remove the battery from the cradle. Unplug the power cord from the outlet.

14 Getting up and running 15 INSERTING THE BATTERY This digital camera uses one NP-1 lithium-ion battery. Before using the battery, read the safety warnings on page 3 of this manual. When replacing the battery, the camera should be turned off (p. 21). CHARGING THE BATTERY IN THE CAMERA Battery can be charged without removing it from the camera.

1. Insert the battery to the camera (p. 16). 2. Plug the power cord into the cradle and a live household outlet (p.

15). 1 2 3 3. Turn the camera off and place it in the cradle with LCD monitor facing forward. The charging lamp glows to show the battery is charging. The lamp goes out when the battery has been charged. Charging time is approximately two hours. 4. When the charging lamp goes out, remove the camera from the cradle first, then unplug the power cord. 1. Slide the battery-chamber door toward the front of the camera to release the safety catch; the door springs open.

2. Move the battery latch towards the back of the camera to insert the battery. With the battery terminal first and the printing toward the front of the camera, slide the battery into the battery chamber until it is caught by the latch. To remove the battery, slide the latch towards the back of the camera until the battery is released. Pull the battery out of the chamber. 3. Close the battery-chamber door and slide it toward the back of the camera to engage the safety catch. After installing the battery, the set-time/date message may appear on the monitor, see page 22 on how to set up the clock and calender. Charging lamp The camera must be off when inserting it into the cradle, otherwise the battery will not charge. If the charging lamp blinks, confirm a battery is in the camera.

Keep cradle terminal clean. Dirty terminals may prevent charging. 16 Getting up and running 17 BATTERY-CONDITION INDICATOR This camera is equipped with an automatic battery-condition indicator displayed on the LCD monitor. The indicator changes from white to red when battery power is low.

Full-battery indicator - the battery is fully charged.

This indicator is displayed when the camera is on. AC ADAPTER (SOLD SEPARATELY) Always turn off the camera before changing between power supplies. The AC adapter AC-4 or AC-5 allows the camera to be powered from a household outlet. The AC adapter is recommended during periods of heavy use. AC adapter model AC-4 is for use in North America, Japan, and Taiwan, and AC-5 is for use in all other areas.

The battery cannot be charged using the AC adapter. To use the AC Adapter AC-4 or AC-5 with this camera, DC Adapter DA-200 is required. DC Adapter DA-200 is included in the AC Adapter Set AC402/502. Low-battery indicator - the battery is partially charged. Low-battery warning - battery power is very low. The battery should be replaced as soon as possible. This warning automatically appears and remains on the monitor until the battery is recharged. LCD monitor turns off while the flash is charging. Some functions such as movie recording are not available. DC Adapter DA-200 2 If power is insufficient for camera operation, the indicator lamp above the LCD monitor blinks for three seconds when the camera is turned on, or the battery-exhausted message appears on the LCD monitor just before the camera shuts down.

The shutter will not release. The battery must be recharged. 1. Open the battery-chamber door. 2. Move the battery latch towards the back of the camera to insert the DC plug. Slide the DC plug into the battery chamber with the terminals first until it is caught by the latch. 3. Open the cover on the side of the battery chamber. 3 AUTO POWER SAVE To conserve battery power, the camera shuts down if an operation is not made within three minutes.

To restore power, press any button. The length of the auto-power-save period can be changed in section 2 of the setup menu (p. 73). When the camera is connected to a computer or PictBridge printer, the auto-power-save period is set to ten minutes and cannot be changed. 4 4.

Place the DC adapter cable in the notch in the battery-chamber door and close the battery-chamber door. 5. Insert the mini-plug of the AC adapter into the AC socket of the DC adapter. 5 6. Insert the AC adapter plug into an electrical outlet.

Do not place the camera on the cradle with the DC Adapter inserted; it will damage the camera. 18 Getting up and running 19 INSTALLING AND REMOVING A MEMORY CARD An SD Memory Card or MultiMediaCard must be inserted for the camera to operate. If a card has not been inserted, a no-card warning is displayed on the monitor. For more about memory cards, see page 108. Always turn off the camera and confirm the indicator lamp is not lit before changing the memory card, otherwise the card may be damaged, and data lost. TURNING THE CAMERA ON To turn the camera on, press the main switch. When the camera is initially turned on, the date and time need to be set, see the following page.



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Press the main switch again to turn off the camera. Always store and transport the camera off. 1 2 1.

Slide the card-chamber door toward the front of the camera to release the safety catch; the door springs open. 2. Insert the memory card all the way into the card slot and then release. The card should catch in the slot. Insert the card so the face is toward the back of the camera. Always push the card in straight, never at an angle. Never force the card. If the card does not fit, check that it is orientated correctly. If a MultiMediaCard is inserted incorrectly, it will lock, but the card chamber door will not close. 3 3.

To eject a memory card, press the card into the slot and release. The card can now be pulled out. 4. Close the card-chamber door and slide it toward the camera to engage the safety catch. Images can be taken without a card.

Depending on the file size, one or more images can be stored temporarily and played back once. These images cannot be transferred or saved. 20 Getting up and running 21 SETTING THE DATE AND TIME After initially inserting a memory card and a battery, the camera's clock and calendar must be set. When images are recorded, the image data is saved with the date and time of recording. RECORDING MODE - BASIC OPERATION This section covers basic recording operation.

To prepare the camera for use, read pages 14 through 22. HANDLING THE CAMERA While using the LCD monitor, grip the camera firmly with your right hand while supporting the camera body with your left. Keep your elbows at your side and your feet shoulder-width apart to hold the camera steadily. When taking vertical pictures, hold the camera so that the flash is above the lens with the shutter-release button to the top. Take care not to cover the lens with your fingers or the strap. 1 If the clock and calendar have not been set, a message may be displayed for a few seconds each time the camera is turned on. This message is also displayed if the clock and calendar reset when the camera is stored without a battery for a long period. Set date and time. Yes No When the message is displayed, use the left and right keys of the controller (1) to select "Yes." "No" cancels the operation.

Press the center of the controller to open the date/time setup screen. If the message is not displayed, the date/time setup screen can be opened in section 3 of the setup menu. See page 73 and 74 on how to open and navigate the menu. Date/Time set SETTING THE CAMERA TO RECORD IMAGES Slide the recording-mode switch to the appropriate position. On the setup screen, use the left and right keys to select the item to be changed. 01 . 01. 2005 00 : 00 Still-image recording. Use the up and down keys to adjust the item. Digital Subject Programs (p.

31). :move :sel. :enter Press the center button to set the clock and calendar. Movie and audio recording (p. 36, 52).

Date/Time setup screen For customers in certain areas, the menu language must also be set. The language is changed in section 1 of the setup menu (p. 73).

22 Getting up and running 23 LCD MONITOR DISPLAY Recording mode Flash modes (p. 28) Image size (p.

44) Image quality (p. 44) Battery-condition indicator (p. 18) Camera-shake warning (p. 30) Anti-Shake indicator (p. 47) Drive mode (p. 40) Frame counter Focus frame Focus signal (p. 29) BASIC RECORDING OPERATION Place the subject anywhere within the focus frame. Make sure the subject is within the focus range of the lens (p. 26). For very close subjects, use the Super Macro function (p.

31). Press the shutter-release button partway down to lock the focus and exposure. The white focus signal confirms focus. If the focus signal is red, the camera was unable to focus. Repeat the previous steps. Press the shutter-release button all the way down to take the picture. The recorded image can be previewed by continuing to hold down the shutter-release button after the image is captured. The instant-playback function can also be used (p. 51). The indicator lamp blinks to show data is being written to the memory card.

Never remove or insert a memory card while data is being transferred. USING THE ZOOM LENS This camera is equipped with a unique 7.7 - 23.1mm zoom lens. This is equivalent to a 37 to 111mm lens on a 35mm camera.

The lens is operated by the zoom lever at the back of the camera. Focus frame Focus signal To zoom in on the subject, push the the right side (T) of the zoom lever (1). To zoom out, push the the left side (W) of the zoom lever. After zooming, the zoom indicator is displayed on the LCD monitor to show the approximate zoom position. The digital-zoom function can increase the power of the lens.

The digital zoom is activated in section 3 of the recording menu (p. 55). Zoom indicator 1 24 Recording - basic operation 25 FOCUS LOCK The focus-lock function is used when you want to compose the image with the subject off-center and outside the focus frame. Focus lock may also be used when a special focusing situation prevents the camera from focusing on the subject. This function is controlled with the shutter-release button. Place the subject within the focus frame. Press and hold the shutter-release button partway down to lock the focus. FOCUS SIGNALS This digital camera has a quick, accurate autofocus system. The focus signal in the lower right corner of the LCD monitor indicates the focus status. The shutter can be released regardless if the camera can focus on the subject or not.

Focus confirmed - the LCD monitor focus signal is white. Focus is locked. Cannot focus - the LCD monitor focus signal is red. The monitor focus signal indicates if the focus is locked. Focus frame Without lifting your finger from the shutter-release button, recompose the subject within the image area. Press the shutter-release button all the way down to take the picture. Focus signal SPECIAL FOCUSING SITUATIONS The camera may not be able to focus in certain situations. In these situations the focus-lock function (p. 26) can be used to focus on another object at the same distance as your main subject, and then the image can be recomposed to take the picture. FOCUS RANGE The focus range depends on the zoom position.

To focus closer than the distances below, use the Super Macro function (p. 31). Wide-angle position 0.1m ~ (4 in. ~ ) Telephoto position 0.4m ~ (16 in. ~ ) The subject is too dark. The subject in the focus frame is low in contrast. Two subjects at different distances overlap in the focus frame. The subject is near a very bright object or area.

26 Recording - basic operation 27 FLASH MODES The flash can be used when taking still images. To select the flash mode, press the flash button (1) on the back of the camera until the desired mode is displayed. The active flash mode is displayed in the top left corner of the LCD monitor. When the camera is turned off and auto reset (p. 76) is active, the flash mode is reset to autoflash with red-eye reduction if this mode was last used, if not the mode will be reset to autoflash.



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While the flash is charging, the shutter cannot be released. Flash cancel - the flash will not fire. Use flash cancel when flash photography is prohibited, natural light is desired to illuminate the subject, or the subject is beyond the flash range. The camera-shake warning may appear when flash cancel is selected (p. 30).

Slow sync. - for portraits in low light when the background detail is wanted. Red-eye reduction is active. The camera balances the subject and background exposures. The use of a tripod is recommended. Ask your subjects not to move after the main burst; the shutter may still be open for the background exposure.

1 Autoflash Autoflash with red-eye reduction Fill-flash Flash cancel Slow-sync. Autoflash - the flash fires automatically in low-light and backlit conditions.

Red-eye reduction - the flash fires multiple bursts before the main flash burst to reduce red-eye; an effect caused by light reflected from the retina. Use in lowlight conditions when taking photographs of people or animals, the pre-flashes contract the pupils of the subject's eyes.

Fill flash - the flash fires with each exposure regardless of the amount of ambient light. Fill flash can be used to reduce harsh shadows caused by strong direct light or sunshine. FLASH RANGE - AUTOMATIC OPERATION The camera automatically controls the flash output. For well-exposed images, the subject must be within the flash range. Because of the optical system, the flash range is not the same at the lens' wide-angle position as it is at the telephoto position.

The flash range can be changed with camera sensitivity (ISO), see page 49. Wide-angle position 0.3m ~ 2.2m (1.0 ft. ~ 7.2 ft.) Telephoto position 0.4m ~ 2.1m (1.3 ft. ~ 6.9 ft.) FLASH SIGNALS The indicator lamp above the LCD monitor indicates the status of the flash. When the lamp blinks, the flash is charging and the shutter will not release.

Fill flash 28 Recording - basic operation 29 DISPLAY BUTTON - RECORDING MODE The display button controls the LCD monitor display. The display switches between full display and live image only each time the button is pressed. If auto reset (p. 76) is active, the display resets to full when the camera is turned off. If the display button is pressed and held, Hibrigh LCD activates, see page 52. DIGITAL SUBJECT PROGRAMS Digital subject programs optimize the camera's exposure, white-balance, and image-processing systems for specific conditions and subjects. Set the recording-mode switch to the Digital Subject Program position. Simply press the left and right keys of the controller to select the appropriate subject program; the subject program indicator is enlarged when selected. Press the center button of the controller to enter the setting. :select :enter Portrait Full display Live image only Super Macro Landscape Portrait - optimized to reproduce warm, soft skin tones and a slight defocusing of the background.

Most portraits look best at a telephoto setting; the longer focal length does not exaggerate facial features and the shallower depth of field softens the background. Use fill flash with strong direct sunlight or backlight to reduce harsh shadows. Super Macro - for close-up photographs down to 5cm (2 in.).

When selected, the lens zooms automatically to the Super Macro position; the zoom position cannot be changed.

At close object distances, the flash may cause overexposure or uneven illumination, set the flash mode to flash cancel (p. 28). The use of a tripod is recommended. Landscape - optimized to produce sharp, colorful landscapes. Used with bright outdoor scenery.

CAMERA-SHAKE WARNING If the shutter speed falls below the point where the camera can be hand held safely, the camera-shake warning indicator appears on the monitor. Camera shake is slight blurring caused by subtle hand motion and is more pronounced at the telephoto position of the lens than at the wide-angle position. Although the warning appears, the shutter can still be released. If the warning appears, place the camera on a tripod or use the built-in flash. Sunset Night View Night Portrait Text 30 Recording - basic operation 31 Sunset - optimized to reproduce rich, warm sunsets. When the sun is above the horizon, do not point the camera toward the sun for prolonged periods of time. The intensity of the sun could damage the CCD. Between exposures, turn off the camera. Night View - for landscapes at twilight or night. The use of a tripod is recommended.

The flash mode is fixed to flash cancel. Night Portrait - for portraits at twilight or night. The flash and background exposures are balanced. The use of a tripod is recommended. The flash mode is fixed to slow sync. Ask your subjects not to move after the main burst; the shutter may still be open for the background exposure. Text - To take pictures of black text or line art on white backgrounds. PLAYBACK - BASIC OPERATION Images can be viewed in the playback mode. The playback mode has additional functions, see page 61. Playback can also be used with the camera in the cradle, see page 36.

To view recorded images, press the mode button (1). If the camera is off, continue to press the button until the monitor activates. 1 Use the left/right keys of the controller to scroll through the images (2). Press the mode button again to return to the recording mode. 2 SPOT AF The spot AF is used for selective focusing.

Both focus and exposure are determined with the spot focus area. When auto reset (p. 76) is active, the spot AF area resets to the wide focus frame when the camera is turned off. When used with the digital zoom (p. 55), the spot focus area is enlarged.

SINGLE-FRAME PLAYBACK DISPLAY Mode indicator Magnification display (p. 35) Image-size display (p. 44) Image-quality indicator (p. 44) Battery-condition indicator (p. 18) Press and hold the center button of the controller to display the spot focus area; press and hold the button again to return to the wide focus frame. Take the picture as described in the basic recording operation section on page 25. When the live image only display is used, switching between the wide and spot AF modes resets the display mode to the full display. Time of recording Date of recording Movie indicator Lock indicator (p. 67)

32 Recording - basic operation Folder number - file number (p. 79) Frame number / total number of images E-mail copy indicator (p.

72) DPOF-setup indicator (p. 70) 33 ROTATING IMAGES Press the down key of the controller (1) to rotate the displayed image 90° left, 90° right, and horizontally. The image is displayed in the selected orientation until changed. ENLARGED PLAYBACK In single-frame playback, a still image can be enlarged by up to 6X. With the image to be magnified displayed, press the right side of the zoom lever (T) to activate the enlarged playback mode. The degree of magnification is displayed on the LCD monitor. Press the right side of the zoom lever (T) to increase the image magnification. Press the left side of the lever (W) to decrease the magnification.



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1 DELETING SINGLE IMAGES To delete a displayed file, press the delete button (1). A confirmation screen appears.

Delete this frame? Use the left/right keys to select "Yes." "No" cancels the operation. Press the center button of the controller to delete the file. Yes No Use the four-way keys of the controller to scroll the image. When scrolling, the arrows in the display disappear when the edge of the image has been reached.

1 The locator in the top right corner of the monitor indicates the area of the image being displayed. DISPLAY BUTTON - PLAYBACK MODE The display button controls the LCD monitor display. Each time the button is pressed, the display switches between full display and image only. The display button switches between showing the full display and the image only. To exit enlarged playback, press the menu button or the center button of the controller.

Image only Full display 34 Playback - basic operation 35 INDEX PLAYBACK To view the recorded images in a 6-frame index, press the left side of the zoom lever (W). In index playback, the left/right and up/down keys of the controller move the yellow border around the index thumbnails. When the image is highlighted with the border, the date of recording, audio-track indicator, the lock and printing status, e-mail copy indicator and the frame number of the image are displayed at the bottom of the screen. The accompanying audio track of the highlighted image can be played by pressing the center button of the controller. When the right side of the zoom lever (T) is pressed, the highlighted image is displayed in the single-frame playback mode. RECORDING - ADVANCED OPERATION 1 MOVIE RECORDING This camera can record digital video with sound. Simply slide the recording-mode switch to the movie/audio recording position (1). The frame counter shows the total recording time for the next movie clip. Total recording time varies with the movie file size, see page 59. Some changes can be made with the movie/audio menu (p.

39). Frame the subject and press the shutter-release button all the way down and release to begin recording (2). A digital zoom is available during recording. Both digital zoom and optical zoom can be turned on or off in section 1 of the movie/audio menu (p. 55, 59). PLAYBACK ON THE CRADLE Images can be played back with the camera in the cradle. Turn the camera off and place the camera in the cradle; see page 17 for details. With the camera in the cradle, turn the camera on; charging stops and images can be viewed as described in the playback section. Pictures cannot be taken; only playback mode is available. If the cradle is plugged into a live electrical outlet, it will power the camera.

If the cradle is unplugged, the camera battery is used as the power source. Always turn off the camera before removing it from the cradle. Microphone 2 The camera continues to record until the recording time is used or the shutter-release button is pressed again. When recording, the frame counter displays the remaining time. During the last ten seconds, the counter turns red.

Take care not to cover the microphone while recording. Very bright light sources in the scene may cause streaks to appear on the image. Black areas caused by data loss may also be apparent. Image size Anti-Shake indicator (p. 47) Recording indicator Remaining time 36 Playback - basic operation 37 NAVIGATING THE RECORDING MENUS The recording menu displayed varies with the position of the recording-mode switch.

Pressing the menu button (1) turns the menu on and off. The four-way keys of the controller (2) move the cursor in the menu. Pressing the center button of the controller enters a setting. Still image recording Drive mode Image size Quality White balance\* Anti-Shake Single 3264x2448 Standard Auto Exposure Sensitivity\* Metering mode\* Exp. comp. Inst.Playback LCD backlight Auto MultiSegment 0.0 On Normal Color mode\* Sharpness\* Contrast\* Digital zoom Date imprint Color Standard Standard Off Off 1 2 Activate the menu with the menu button. Movie and audio recording Use the left/right keys of the controller to highlight the appropriate menu tab; the menu changes as the tabs are highlighted. Use the up/down keys to scroll through the menu options.

Highlight the option whose setting needs to be changed. With the menu option highlighted, press the right controller key; the settings are displayed with the current setting highlighted. To return to the menu options, press the left key. Key func.\* Key func.\* Exp. comp. Off Movie/Audio Image size Optical zoom Digital zoom Anti-Shake Movie 320x240 Off On On White balance Exp. comp. Color mode Focus mode Movie mode Auto 0.

0 Color Cont. AF STD. movie \* These functions are not available when the recording-mode switch is in the digital-subject-program position. Audio On Use the up/down keys to highlight the new setting. Refer to the following sections for details on the menu options and their settings.

Press the center button of the controller to select the highlighted setting. Index to menu functions Anti-Shake, 47 Audio, 60 Color mode, 52 Contrast, 54 Date imprinting, 56 Digital zoom, 55 Drive mode, 40 Once a setting has been selected, the cursor returns to the menu options and the new setting is displayed. To return to the recording mode, press the menu button. Exp. compensation, 50 Focus mode, 60 Image size, 44, 59 Instant playback, 51 Key function, 57 LCD backlight, 52 Metering mode, 49 Movie mode, 60 Movie/Audio, 58 Optical zoom, 59 Quality, 44 Sensitivity, 48 Sharpness, 53 White balance, 46 39 38 Recording - advanced operation DRIVE MODES The drive modes control the rate and method images are captured.

Indicators indicating the selected drive mode appear on the monitor. Drive modes can be selected in section 1 of the recording menu. See navigating the recording menu section on page 38. Single-frame advance - to take a single image each time the shutter-release button is pressed. This is the camera's default setting. Self-timer - to delay the release of the shutter (p. 40). Used for self-portraits. Continuous advance - to take up to three images when the shutter-release button is pressed and held (p. 41).

Advanced modes - to use advanced drive modes: UHS continuous advance, Progressive Capture, UHS Progressive Capture, and Multi Frame. During the countdown, the self-timer lamp on the front of the camera starts to blink and is accompanied by an audio signal. A countdown timer is displayed on the monitor. A few seconds before the exposure, the selftimer lamp blinks rapidly. The lamp glows steadily just before the shutter fires. To stop the countdown, press the zoom lever or menu button. The drive mode resets to single-frame advance after the exposure. The audio signal can be turned off in section 2 of the setup menu (p. 77). Self-timer lamp Continuous advance This mode continuously records images when the shutter-release button is pressed and held.



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With standard 3264 x 2448 images, the maximum number of pictures taken is three and the approximate rate of capture is 0.5 fps. The continuous advance drive mode is selected in section 1 of the recording menu. Compose the picture as described in the basic recording operation section (p. 25). Press the shutter-release button partway down to lock the exposure and focus for the series. Press and hold the shutter-release button all the way down to begin taking pictures. When the shutter-release button is pressed and held, the camera begins recording images until the maximum number has been taken or the shutter button is released. The maximum number depends on the image size and quality; for example, the number increases up to 20 with economy 1600 x 1200 images.

Digital zoom (p. 55) reduces the number of images. The frame counter is adjusted after the series has been taken. The built-in flash can be used, but the rate of capture is reduced because the flash must recharge between frames. Date imprinting (p. 56) also reduces the rate of capture. If noise reduction processing is applied, the rate of capture is reduced, see p. 42. Self-timer Used for self-portraits, the self-timer delays the release of the shutter for approximately ten seconds after the shutter-release button is pressed. The self-timer drive mode is selected in section 1 of the recording menu.

1 2 With the camera on a tripod, compose the picture as described in the basic recording operation section (p. 25). Press the shutter-release button partway down to lock the exposure and focus (1). Press the shutter-release button all the way down to begin the countdown (2). Because focus and exposure are determined when the shutter-release button is pressed, do not stand in front of the camera when taking a self-timer image. Always confirm the focus with the focus signals before beginning the countdown (p. 27). 40 Recording - advanced operation 41 Advanced modes Four advanced drive modes are available: UHS continuous advance, Progressive Capture, UHS Progressive Capture, and Multi Frame. To select each mode, select the advanced-modes option in section 1 of the recording menu. Press the center button of the controller to display four advanced modes.

Use the left/right keys to select the mode. Press the center button again to complete the operation. Progressive Capture The Progressive-Capture drive mode continuously records images while holding down the shutter-release button. With standard 3264 x 2448 images, the approximate rate of capture is 0.5 fps.

When the shutter button is released, the last three images stored in the camera's buffer memory are saved. Compose the picture as described in the basic recording operation section (p. 25). Press and hold the shutter-release button all the way down to begin taking pictures. :select :enter UHS cont.

Flash cannot be used with the advanced drive modes. Focus and exposure are locked at the first frame of a series. When the red low-battery warning is displayed, these modes cannot be used. Because of the limits to the shutter speeds, images may be underexposed in low-light conditions. Very bright light sources in the scene may cause streaks to appear on the image. Black areas caused by data loss may also be apparent. When the event has ended, release the shutter to save the images in the camera memory: The number of images in the memory depends on the image size and quality; three images are saved with standard 3264 x 2448 images, while 20 images are saved with economy 1600 x 1200 images. The advantage of Progressive Capture over the continuous-advance drive mode is that it allows you to record events without the need to predict when the event will start. Simply hold the shutter-release button down to start saving images, and when the action ends, release the shutter button to save the recorded series. Progressive Capture can only be used when there is enough space available on the memory card to record an entire series of images.

Digital zoom cannot be used. UHS Continuous Advance UHS continuous-advance mode captures up to 15 images at approximately 10fps while holding down the shutter-release button. The image size is fixed at 640x480. Digital zoom cannot be used. Image quality may be slightly lower than normal. UHS Progressive Capture Operation is the same as that of continuous-advanced mode: compose the picture, and press and hold the shutter-release button all the way down; the camera will begin recording images until the shutter-button is released. UHS Progressive Capture drive mode is the same as standard Progressive Capture, except the maximum number of recorded images is 15, the rate of capture is approximately 10fps, and the image size is fixed at 640x480. The frame counter must show 15 frames or more to use UHS Progressive Capture. Digital zoom cannot be used. Image quality may be slightly lower than normal.

Camera Notes Noise reduction is applied automatically when the camera temperature is high or slow shutter speed is required. When processing is applied, the message is displayed after each exposure and next picture cannot be taken during this period. The rate of capture of continuous advance reduces. 42 Recording - advanced operation 43 Multi Frame Take the picture as described in the basic recording operation section (p. 25).

Once the series starts, the shutter button can be released; the camera continues recording at 3fps until all nine frames have been captured. Image size is fixed to 2048x1536 and cannot be changed. Image size refers to the total area of all nine images, not the size of each individual thumbnail. Digital zoom cannot be used. Image quality may be slightly lower than normal.

Image quality controls the rate of compression, but has no effect on the number of pixels in the image. The higher the image quality, the lower the rate of compression and the larger the file sizes. If economical use of the memory is important, use the economy mode. Standard image quality is sufficient for normal usage. The fine mode produces the highest quality image and the largest image files. Image size and quality must be set before the picture is taken.

Changes are displayed on the LCD monitor. Image size and quality must be reset manually. Image size and quality are set in section 1 of the recording menu. See navigating the recording menu section on page 38.

If image size or quality are changed, the frame counter displays the approximate number of images that can be recorded at that setting. Images with differing sizes and qualities can be recorded. The number of images that can be recorded depends on the memory available and the file size of the images. @@ See the chart below. Approximate file sizes. IMAGE SIZE AND IMAGE QUALITY Changing image size affects the number of pixels in each image. The greater the image size, the larger the file size. Choose image size based on the final use of the image smaller images are more suitable for web sites whereas larger sizes produce higher quality prints.



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LCD monitor 3264 2560 2048 1600 640 Number of pixels (hor. X vert.

) 3264 X 2448 2560 X 1920 2048 X 1536 1600 X 1200 640 X 480 Fine Standard Economy Quality Size Fine Standard Economy 3264x2448 4.0 MB 2.0 MB 1.0 MB 2560x1920 2.5 MB 1.

2 MB 600 KB 2048x1536 1.6 MB 800 KB 400 KB 1600x1200 960 KB 480 KB 240 KB 640x480 150 KB 80 KB 40 KB Approximate number of stored images with 32MB memory card 9 13 27 15 22 44 24 35 67 39 56 102 183 231 326 FINE STD. ECON. Fine - high-quality JPEG image. Standard - the default setting.

(JPEG) Economy - the smallest file sizes. (JPEG) Camera Notes The frame counter indicates the approximate number of images that can be recorded with the available memory at the camera's image quality and size settings. Because the counter uses approximate file sizes, the actual image taken may not change the counter or may decrease it by more than one. When the frame counter displays zero, it indicates no more images at the image size and quality settings can be captured. Changing those settings may allow more images to be saved. 44 Recording - advanced operation 45 WHITE BALANCE White balance is the camera's ability to make different types of lighting appear neutral. The effect is similar to selecting daylight or tungsten film, or using color compensating filters in conventional photography. One automatic and four preset white-balance settings are available with still image and movie recording; white balance cannot be changed with digital subject programs. White balance is set in section 1 of the recording menu or in section 2 of the movie/audio recording menu (p. 38).

White balance can be assigned to the controller (p. 57). When auto reset (p. 76) is active, the white balance is reset to automatic when the camera is turned off. ANTI-SHAKE SYSTEM The Anti-Shake system minimizes the affect of camera shake, a slight blurring caused by subtle hand motion. Camera shake is more pronounced at the telephoto setting than at the wide-angle. Anti-Shake is employed when the shutter speed falls below a certain limit depending on the focal length in use. The effectiveness of Anti-Shake depends on the shutter-speed in use and the degree of shaking. The system may not work with moving subjects or when the camera is panned. When the system is active, the Anti-Shake indicator appears.

When the shutter-release button is pressed partway down, Anti-Shake-on indicator lights to indicate that Anti-Shake is active. Regardless of the Anti-Shake setting, if the shutter speed is too slow for the camera to be safely handheld, the camera-shake indicator appears as a warning. Use the built-in flash or a wide-angle zoom position. Anti-Shake-on indicator Automatic white balance compensates for the color temperature of a scene. In most cases, the auto setting balances the ambient light and creates beautiful images, even under mixed-lighting conditions.

When the built-in flash is used, the white balance is set to the color temperature of the flash. When one of the preset white-balance settings is selected, an indicator is displayed on the LCD monitor to indicate the active white-balance setting; the effect is immediately visible on the monitor. To record the ambient light, set the flash mode to flash cancel (p. 29). The built-in flash can be used with preset white-balance, but creates a pinkish or blueish cast with the fluorescent and tungsten settings.

The flash is daylight balanced and produces good results with the daylight and cloudy settings. Camera-shake warning Anti-Shake indicator Daylight - for outdoor and sunlit subjects. Cloudy - for overcast outdoor scenes. Tungsten - for incandescent lighting: household light bulbs. Fluorescent - for fluorescent lighting: office ceiling lights. Frame the subject as described in the basic operation section and press the shutter-release button partway down, then all the way down to take the picture. Anti-Shake can be selected in section 1 of the recording menus. Three options are available for still images. For movies, Anti-Shake has just two options: on or off. Display + Exp.

- when the shutter-release button is pressed partway down, the Anti-Shake function activates. Exposure - Anti-Shake is only applied during the exposure and is not apparent in the live image. When the shutter-release button is pressed partway down, wait a moment before taking the picture for the Anti-Shake system to stabilize the image. Off - Anti-Shake will not activate. When taking still images, use this mode if the camera's internal Anti-Shake movement is distracting. When the red low-battery warning is displayed, Anti-Shake does not work. If Anti-Shake cannot compensate the camera motion, the Anti-Shake indicator turns red. 46 Recording - advanced operation 47 CAMERA SENSITIVITY - ISO Four camera sensitivity settings can be selected with a still image: Auto, 50, 100, 200; the numerical values are based on an ISO equivalent; the higher the number, the more sensitive the camera. Sensitivity can be changed in section 2 of the recording menu (p. 38).

This cannot be changed with movie recording or digital subject programs. Sensitivity can be assigned to the controller (p. 57). FLASH RANGE AND CAMERA SENSITIVITY Because of the optical system, the flash range is not the same at the lens' wide-angle position as it is at the telephoto position. ISO setting AUTO 50 100 200 Flash range (wide angle) 0.

3m ~ 2.2m (1.0 ft. ~ 7.2 ft.

) 0.3m ~ 1.2m (1.0 ft. ~ 3.9 ft.) 0.4m ~ 1.8m (1.3 ft.

~ 5.9 ft.) 0.6m ~ 2.5m (2.0 ft. ~ 8.2 ft.) Flash range (telephoto) 0.4m ~ 2.

1m (1.3 ft. ~ 6.9 ft.) 0.

4m ~ 1.1m (1.3 ft. ~ 3.6 ft.

) 0.4m ~ 1.6m (1.3 ft. ~ 5.2 ft.) 0.6m ~ 2.3m (2.0 ft.

~ 7.5 ft.) The auto setting automatically adjusts the camera sensitivity to the light conditions between ISO 50 and ISO 160. When any other setting than auto is used, "ISO" and the set value appear on the LCD monitor. When the camera temperature is high, the sensitivity may be adjusted between ISO 50 and 100. A specific sensitivity setting can be selected. As the ISO value doubles, the camera sensitivity doubles. Like grain in silver-halide film that increases with speed, noise increases with the sensitivity in digital imaging; an ISO setting of 50 has the least noise and 200 has the most. METERING MODES Camera sensitivity The metering mode is selected in section 2 of the recording menu (p. 38).

Metering cannot be changed with the movie recording or digital subject programs. Multi-segment metering: uses 300 segments to measure luminance and color. This data is combined with distance information to calculate the camera exposure. This advanced metering system gives accurate worry-free exposures in almost all situations. Spot metering: uses a small area within the image to calculate the exposure.

A small circle appears in the middle of the live image indicating the measuring area. The spot allows precise exposure measurements of a particular object without being influenced by extremely bright or dark areas within the scene. Sensitivity Metering mode Exp.



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comp. Inst.

Playback LCD backlight Auto MultiSegment 0.0 On Normal Spot-metering area Spot-metering indicator 48 Recording - advanced operation 49 EXPOSURE COMPENSATION The camera exposure can be adjusted to make the final picture lighter or darker by as much as  $\pm 2\text{Ev}$  in  $1/3$  increments with still image and movie recording; exposure compensation cannot be used with digital subject programs. When auto reset (p. 76) is active, exposure compensation is reset to 0.0 when the camera is turned off. Exposure compensation can be assigned to the controller (p. 57). With the camera's default settings, exposure compensation can be adjusted with up/down keys of the controller. Select the exposure compensation option in section 2 of the recording menus. Use the up/down keys to adjust the degree of compensation (1).

Press the center button of the controller to set this value (2). If any value other than 0.0 is set, an indicator is displayed on the monitor as a warning. Shooting tips Sometimes the camera's exposure meter is deceived by certain conditions. Exposure compensation can be used in these situations. For example, a very bright scene, such as a snowy landscape or a white sandy beach, can appear too dark in the captured image. Before taking the picture, adjusting the exposure by +1 or +2 EV results in an image with normal tonal values. 1 Sensitivity Metering mode 2 ~ +2 +0.3 Exp. comp.

Inst. Playback LCD backlight 2 Calculated camera exposure 1.0Ev (1/2 as much light) 2.0Ev (1/4 as much light) In the example above, the dark water caused the camera to overexpose the image making it bright and washed-out. By compensating the exposure, detail is brought out in the leaves, and the stones and water appear richer.

Ev stands for exposure value. A change of one Ev adjusts the exposure calculated by the camera by a factor of two. INSTANT PLAYBACK After a still image is captured, it can be displayed on the monitor for two seconds before being saved. Instant playback shows the last frame in the series when used with the continuous-advance drive mode (p. 41).

Instant playback can be activated in section 2 of the recording menu (p. 38). 50 Recording - advanced operation 51 HIBRIGHT LCD Monitor brightness can be increased so that the monitor is easier to view in bright outdoor conditions. Simply press and hold the display button; monitor brightness increases. If the button is pressed and held again, the monitor returns to normal brightness. The Hibright LCD indicator appears on the monitor when active. Hibright LCD can also be turned on or off in section 2 of the recording menu (p. 38). SHARPNESS Sharpness accents or softens details in an image in three levels: hard (+), normal, and soft (). This can be set in section 3 of the recording menu (p.

38). Sharpness cannot be changed when using digital subject programs. Any changes made are applied to the live image, but may be difficult to see. However, when viewed with a computer, the changes will be evident. If any level except normal is selected, an indicator appears on the monitor as a warning. Color mode Sharpness Contrast Digital zoom Date imprint Color Normal Normal Off Off Hibright LCD indicator COLOR MODE The color mode controls whether an image is color or black and white. The color mode is set in section 3 of the still-image recording menu or in section 2 of the movie/audio recording menu (p. 38). The color mode cannot be changed with digital subject programs. The color mode can be assigned to the controller (p.

57). The black & white mode produces neutral monochrome images. Sepia creates warm-tone monochrome images. The monitor live image reflects the selected color mode. The color option uses no monitor indicator when active.

The color mode has no effect on image file size. Black & White Sepia Sharpness: soft Sharpness: hard 52 Recording - advanced operation 53 CONTRAST This function increases or decreases the contrast of the scene in three levels: high (+), normal, and low (). This can be set in section 3 of the recording menu (p. 38). Contrast cannot be changed when using digital subject programs.

Any changes made are applied to the live image. If any level except normal is selected, an indicator appears on the monitor as a warning. DIGITAL ZOOM The digital zoom for still images is activated in section 3 of the recording menu (p. 38). The digital zoom increases the magnification of the greatest telephoto setting of the optical zoom by up to 4.0X. Although the images recorded with the digital zoom are interpolated to the set image size, the quality of the images may not be equal to images taken without the digital zoom; the greater the power of the digital zoom the lower the image quality. Contrast: low Contrast: normal Contrast: high At the maximum telephoto position, continue to press the right side (T) of the zoom lever (1) to engage the digital zoom. The zoom magnification is displayed in the top right corner of the monitor. To zoom out, press the the left side (W) of the zoom lever.

After zooming, the zoom indicator is displayed on the LCD monitor to show the approximate zoom position. 1 Optical zoom range Digital zoom range In movie recording mode, the digital zoom is turned on or off in section 1 of the movie/audio menu (p. 38). The digital zoom is only available when recording with 320x240 movies. The optical zoom can also be turned on or off in movie/audio menu. 54 Recording - advanced operation 55 DATE IMPRINTING The date and time of recording can be printed directly on a still image. The imprinting function must be activated before the image is taken. Once activated, the date will continue to be imprinted until the function is reset; a yellow bar is displayed behind the frame counter on the monitor to indicate the imprinting function is active. Date imprinting is activated with section 3 of the recording menu (p. 38).

Date imprinting has two menu options. The YYYY/MM/DD option prints the date. The MM/DD/hr:min option prints the month, day, and time of recording. The date and time are imprinted in the lower right corner of the image when viewed horizontally. It is printed directly on the photograph writing over the image information.

The date can be imprinted in three formats: year / month / day, month / day / year, and day / month / year. The date and date format are set in section 3 of the setup menu (p. 73). CUSTOM KEY FUNCTION In the recording mode, a function can be assigned to the up/down or left/right keys of the controller. This function is specified in section 4 of the recording menu (p.

38). This function cannot be used with the digital subject programs. Refer to the following sections for information on drive modes (p. 40), exposure compensation (p. 50), white balance (p. 46), and camera sensitivity (p. 48). Key func. Key func. Drive mode Exp.

comp. White balance Sensitivity Off Date-imprinting indicator In the recording mode, use the up/down or left/right keys of the controller to change the function set with the menu.



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