Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for KONICA MINOLTA DIMAGE G400. You'll find the answers to all your questions on the KONICA MINOLTA DIMAGE G400 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 G400
User guide KONICA MINOLTA DIMAGE G400
Operating instructions KONICA MINOLTA DIMAGE G400
Instructions for use KONICA MINOLTA DIMAGE G400
Instruction manual KONICA MINOLTA DIMAGE G400

KONICA MINOLTA

DIMAGE G400

E INSTRUCTION MANUAL

Manual abstract:

*About trademarks · Windows 98, Windows 98SE, Windows XP, Windows 2000 Professional and Windows Me are trademarks or registered trademarks of Microsoft Corporation in the U.S. and other countries. · Apple, Macintosh, Mac OS, QuickTime and Power PC are trademarks or registered trademarks of Apple Computer in the U.S. and other countries. · Other company names and product names are trademarks or registered trademarks of their respective owners. 2 Getting Started (Cont'd) * The illustrations in this guide are for the purpose of explanation and may differ from the actual design of your camera. * You can also order a digital print at a photo lab (except for some labs) such as a traditional photofinishing service. For detailed information, please contact your photo lab.*

Contents

.....

....

... 136 7 Important Safety Precautions This product has been designed with safety in mind; however, please read the following display marks, warnings and cautions for its correct usage. The following warning and caution symbols are to prevent damage to the user, other persons and property. ! Definitions of the symbols The following categories explain the degree of danger or damage that may occur if the displayed content is not followed or the product is misused. Warning This symbol indicates that misuse may result in serious injury and even death. Caution This symbol indicates that misuse may result in bodily injury or physical damage. The following categories explain the contents to be followed using symbols. This symbol indicates that the content requires caution when performed.

This symbol indicates that the content is prohibited. This symbol indicates that the content must always be followed. 8 Important Safety Precautions (Cont'd) Warning Should any of the following occur, stop using the product immediately. Remove the batteries from the unit and disconnect the AC adapter. If using the AC adapter, disconnect the power plug from the wall outlet.

Consult the dealer from whom you bought the product for further assistance. Continued use of the product may result in fire or electrical shock. · If you notice any abnormality such as smoke or an abnormal smell, or if the camera becomes extremely hot. · If liquid gets inside the camera. · If any foreign object gets inside the camera.

Do not dismantle, modify or repair the camera yourself. Fire and/or electrical shock may occur as a result. For repair or internal inspection, consult the dealer from whom you bought the product. Do not allow the camera to get wet. Fire, electrical shock and/or malfunction of the unit may occur if internal parts are exposed to water or other liquids. Do not drop or insert metal objects or combustible items inside the camera. Fire, electrical shock and/or malfunction of the unit may occur as a result of metal objects, etc. getting inside the camera. Do not use the camera while driving. May cause traffic accidents.

When using the camera while walking, pay attention to the road surface, surroundings, etc. Do not use the camera on unstable ground. Serious injury and even death may occur as a result especially when falling from high places. 9 Important Safety Precautions (Cont'd) Warning Do not directly look at the sun through the viewfinder. Loss of or impaired eyesight may result. Do not touch the metal parts on the camera during thunder and lighting.

chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. 12 Preparation Necessary Accessories Checking the Packing Contents The following accessories should be packed with your new camera; please make sure all are enclosed after opening the packaging. In the unlikely event that something is missing, please contact the sales outlet.

Japan 1) Rechargeable Lithium-ion Battery NP-600 2) Battery Charger BC-600 3) USB cable USB-810 4) DiMAGE Viewer CD-ROM 5) INSTRUCTION MANUAL CD-ROM 6) Neckstrap NS-DG130 7) INSTRUCTION MANUAL 8) Quick Guide 9) Warranty 10) SD Memory Card k k k k k k k k Others countries k k k k k k k k k This product can be used with the following power supplies: 1) Lithium-ion battery (the packaged item or purchased separately) · Read the user's guide on the battery and the charger thoroughly, and use them accordingly. · You cannot charge the battery in the camera. · When disposing of rechargeable batteries, please suppor t recycling by participating in the recovering system of the store from which you bought the batteries. · The number of pictures you can take varies with the conditions of use and the performance of the rechargeable batteries. * Please refer to page 22 for information on battery life.

2) Plugging in at home · Connect the designated AC adapter AC-9 (sold separately). Items Sold Separately · AC Adapter AC-9 · Rechargeable Lithium-ion Battery NP-600 · Camera Case CS-DG700 13 Necessary Accessories (Cont'd) Compatible Recording Media In addition to the SD Memory Card bundled with the camera, the following commercially available memory cards can also be used. · SD Memory Card · MultiMedia Card · Memory Stick About the SD Memory Card/Multi-Media Card/Memory Stick Caution SD Memory Cards, Multi-Media Cards and Memory Stick are manufactured using precision electronic components. Do not perform the following as malfunction or damage may occur as a result. · Do not touch the terminals with hands or metal objects.

Damage to the components may occur as a result of static electricity. Before handling an SD Memory Card, Multi-Media Card or Memory Stick, discharge any static build-up from your body by touching grounded metal, etc. · Do not bend, drop or apply excessive force. · Avoid heat, liquid and direct sunlight when using and for storage. · Do not open the battery/card cover or remove the SD Memory Card/ Multi-Media Card/Memory Stick while data is being read or written. · Do not dismantle or modify. * The SD logo is a trademark.* "Memory Stick" and are trademarks of Sony Corporation. 14 Necessary Accessories (Cont'd) Important · In the event of malfunction or damage, it is possible that data may be lost. Konica Minolta can not accept responsibility in any way for such data loss.

· Always back-up important data. · When using SD Memory Cards/Multi-Media Cards/Memory Stick on a PC, do not change the attributes(read-only, etc.) of the files (image data) on the card. Doing so may prevent the camera from working properly when deleting images, etc. · Do not change the file names or the directory name of image data saved on an SD Memory Card/Multi-Media Card/Memory Stick using a PC or save files other than image data taken by this camera. Images that have been changed or added will not only play back on the camera but may cause the camera to malfunction as well. · Always format SD Memory Cards/Multi-Media Cards/Memory Stick using this camera. A card formatted in a PC may not operate properly. · The SD Memory Card and Memory Stick includes a write-protect switch. Sliding this switch downward prevents data from being written to the card and images, etc.

saved on the card are protected. Please note that pictures cannot be taken or deleted when the writeprotect switch is on. · When using a large-capacity card, card check and deletion may take some time. · When using Multi-Media Cards, the operation response time may be longer during shooting and playback when compared with SD Memory Cards. However, this is due to the specification of the MultiMedia Card and is not a malfunction.

15 Names of Parts Camera Body Auto-focus Sensor Windows Blue LED Shutter Button Speaker Flash Viewfinder Lens Cover (Main Switch) Strap Holder USB Terminal Cover Battery Sub-cap Lens Microphone Self-timer LED 16 Names of Parts (Cont'd) Delete Button (P.18) Play Button(P.18) Green LED Viewfinder Eyepiece LCD Monitor 4-way Button (P.18) Zoom Buttons(P.18) MODE Button (P.

18) MENU Button (P.19) Tripod Socket Battery/Card Cover SET/DISP. Button 17 Names of Parts (Cont'd) Operation Buttons qw e r t LCD Monitor y u q Play Button ( ) Use this button for playing back images, or setting up the play menu. This button can be used whether the camera's power is ON or OFF (p.28). w Delete Button ( ) For deleting unwanted photos. e 4-way Button ( ) Use the different buttons , , , and , to select menu items, images, etc. This button is used for the following: · Selecting shooting mode · Selecting menus · Selecting pictures · Scrolling a picture in an enlarged display · Shutter speed and aperture settings r Zoom Butttons Use this button to operate the optical and digital zoom and for index playback. t MODE button Use this button to select the shooting mode or setup mode. 18 Names of Parts (Cont'd) y MENU Butttton Displays the menu screen.

You can also use this button to cancel menu settings. u SET/DISP. button Confirms (sets) the selected menu option. You can also use this button to switch the LCD monitor on and off and to show/hide image information. Attaching the Strap 1 1. Push the loop on the small end of the strap through the strap holder. 2 2. Pass the other end of the strap through the loop that is sticking out from the strap holder. Warning: When using the camera with the strap attached, take care so that it does not wrap around the neck. On no account hang the camera round the neck of small children and infants.

Strangulation may occur as a result if the strap wraps around the neck. · When carrying the camera hanging from the strap, take care so that it is not accidentally hit nearby objects. · Place the camera on a stable surface before installing the strap, to avoid the possibility of it being dropped and damaged. 19 Preparing the Power Supply Charging the (supplied) Battery Pack - Charge the battery pack before you use it for the first time and when the LCD monitor indicates, "NO MORE POWER". Charging display LED e w q to an outlet 1.

Connect the power cord to the charger. 2. Plug the cord into an outlet. 3. Put the battery pack in the charger.
· While the battery pack is being charged, the charging display LED will be red; when the battery pack is fully charged, the light will turn green.

4. After charging, remove the battery pack from the charger and then the power cord from the outlet and the charger. · Please charge your battery pack in an area with a temperature between 0°C (32°F) and 40°C (104°F). · Charging time will vary with the surrounding temperature and the condition of the battery pack. · Before using new battery packs or battery packs that have not been used for some time, be absolutely sure to charge them. · When a battery pack reaches the end of its useful life, it can be used only for a short time, even when fully charged. When that happens, replace with a new battery pack (sold separately, Rechargeable Lithium-ion Battery NP-600). · During charging both the charger and the battery pack get hot; this is normal. · If dirt gets on the battery contact points, the battery pack will not be fully charged or charging time will get longer.

Please wipe them off with a soft, dry cloth. 20 Preparing the Power Supply (Cont'd) Installing the (supplied) Battery Pack - Before installing or changing battery packs, make sure the power is OFF (p.28), check that the LCD monitor is not lit and turn OFF all switches. 1 1. Open the battery/card cover by sliding it in the direction of the arrow. Do not change the battery with wet hands, as there is a danger of electric shock. 2 2. Install the battery with the terminals facing inside the camera. After making sure the battery pack is properly installed, close the battery/card cover securely. Make sure that the battery pack is facing the right way.

If the battery pack is installed incorrectly, there is a danger of injury or contamination, or the camera may be damaged due to leakage and/or heat. Battery level indicator As the battery runs out of power, the battery level indicator displays the power remaining as follows: (Remaining power is shown on the LCD monitor in two levels) 1. Fully charged 2. Power is running out; change (charge) the battery. 21 Preparing the Power Supply (Cont'd) Battery life guide (reference) Number of Pictures With LCD Monitor On With LCD Monitor Off About 185 About 330 Continuous Playback Time About 200 Minutes * Our test conditions: Normal humidity and temperature, flash intensity 50%, shot every 30 sec.

Zoomed one direction, once, 2272 × 1704 pixels. * The Battery life will vary depending on the environment, shooting mode, and shooting conditions. * The above values are for reference only and are not guaranteed. * Power is consumed by the following operations even when not recording and these will reduce the number of images that can be recorded. · Repeated focus operations by pressing the shutter button halfway.

· Repeated zoom operations. · Extensive use of the LCD monitor in the Playback mode. · Communication with a PC. Caution · When you continue using the camera for a long time, the batteries become hot. Contact with the batteries can lead to burns. · Never open the battery/card cover while the camera is accessing the card or processing images (p.36). · To recharge the battery (NP-600), do not use any charger other than the supplied charger (BC-600). Also, do not use the supplied charger (BC-600) to recharge batteries other than our special battery (NP-600) · Do not leave the battery anywhere where the temperature may reach 60C° (140°F), such as inside a car, in the sun, near a heater, etc. · Do not get the battery wet, drop it or subject it to violent shocks.

22 Preparing the Power Supply (Cont'd) Please co-operate in recycling the lithium battery. · This product uses a lithium battery. · This battery is recyclable and a valuable resource. · For recycling exhausted batteries or batteries removed from a used product, as a precaution against a short circuit, that could result in smoke or fire, please tape the terminals to insulate them or put them in a plastic bag and take them to a retailer participating in a recycling program, where you can deposit them in a recycling box for rechargeable batteries. Warnings about recycling Do not short circuit the battery. This may cause a fire or electrical shock. Do not peel off the outer cover (insulation cover, tube, etc.) This may cause the battery to leak, get hot, catch fire, or explode. Do not dismantle the battery. This may cause it to leak, get hot, catch fire, or explode.

FCC Compliance Statement: 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) Tested To Comply With FCC Standards this device must accept any interference received, including interference that may cause undesired operation. Changes FOR HOME OR OFFICE USE 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. Tested by the Minolta Corporation 101 Williams Drive, Ramsey, New Jersey 07446, U.S.A. Do not remove the ferrite cores from the cables. Digital Camera: Industry Canada's Compliance Statement: This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. 23 Preparing the Power Supply (Cont'd) Connecting the AC Adapter (sold separately) - If you do not want to worry about battery consumption, we recommend using the specified AC adapter AC-9 (sold separately) when shooting pictures, during playback, or when transferring data (USB connection). - Only use the AC adapter (sold separately) specified for your camera as use of any other device may result in a breakdown, fire or electrical shock. - Make sure the camera is OFF, check that the LCD monitor is not lit and turn OFF all power.

- After reading the "Important Safety Precautions" (pp.

8-12) in this manual and the warnings supplied with the AC adapter, connect the adapter as instructed. 1 1. Connect the AC adapter to the power supply cord, and plug in the power supply plug. 2 2. Inser t the connecting plug of the battery type adapter to the AC adapter plug. 24 Preparing the Power Supply (Cont'd) 3 3. After opening the battery/card cover, remove the battery sub-cap. Insert the batter y adapter in the batter y compartment, and close the battery/ card cover. · When finished using the camera, turn OFF the power supply to the camera, and then disconnect the connecting plug of the battery-type plug from the AC adapter.

Never handle the adapter with wet hands. It may result in electric shock. 25 Inserting/Removing Cards - Use the bundled SD Memory Card or a commercially available memory card. If you wish to use an aftermarket card, any of the following are appropriate: SD Memory Card, Multi-Media Card, Memory Stick. (All three will be called "card" hereafter.

) - First, turn OFF the main switch (lens cover closed), make sure the LCD monitor is OFF and turn OFF all power. If power is ON, damage may occur to the card or to the camera itself. Inserting a Card 1 1. Open the battery/card cover. 2 Memory Stick slot SD Memory Card/MultiMedia Card slot 2.

With the camera and the label of the card facing up, insert the card with the knocked out part first into the slot and push in until a click is heard. · Take care that the card is inserted facing the right way. If the card is forcefully inserted facing the wrong way, it will damage the connector. · There are two card slots. When a SD Memory card or MultiMedia Card are used, insert them in the slot at the back of the camera, and if a Memory Stick is used, insert it in the slot toward the front. 3. Close the battery/card cover. 26 Inserting/Removing Cards (Cont'd) Card Removal 1. Open the battery/card cover. 2.

If you gently push in on the card, the lock will release and the card will come out a little. Then carefully draw the card out. 3. Again, close the battery/card cover. Warning! Insert or remove cards only after making sure that absolutely all power is OFF as indicated by the viewfinder LED being off. While the card is being accessed, or an image is being processed, the LCD monitor will show "Now COPY...", etc., and the green LED will come on.

If you open the battery/card cover while the green LED is lit, image processing may be interrupted or hindered. While the green LED is still lit, make sure that you DO NOT open the battery/card cover. · Also, it is possible to insert and use two cards simultaneously, such as an SD memory card (or multi-media card) and a Memory Stick. When 2 cards are inserted at the same time, recording priority is given to the card that was used first. This priority can be changed in the menu settings (p.

60). 27 Turning the Power ON/OFF 1 1. Gently slide the lens cover (main switch) in the direction indicated by the arrow until it stops. 2 2. Once the lens extends to the shooting position (wide-angle side), the power will come on.

· With the power ON it is possible to shoot pictures. Also, the LCD display will be lit. 3 3. When you wish to turn the power OFF, slide the lens cover just a little in the direction indicated by the arrow. The power will turn OFF and the lens will retract. After you are sure the lens has fully retracted, you can close the lens cover to its fully closed position. 28 Setting the Menu Language/Date and Time - The first time that you use your camera, a screen will automatically appear and prompt you to set the time, date and language. To make those settings, please follow the steps below. - Check that the camera has a fully charged battery or that the AC adapter (sold separately) is connected. 1 1.

Turn the power on by either opening the lens cover or pressing the PLAY button. The language selection screen will automatically appear on the LCD monitor. By pressing or , select the desired language and push the SET/ DISP. button. 2 2. You will be prompted to confirm your language selection; confir m the selected "YES" by pressing the SET/ DISP. button. · If you select "NO" with and press the SET/DISP. button, the current setting is invalidated and you will return to the first screen. * Once you have finished language selection, the next screen "DATE SET" will appear.

3 3. With "YEAR" selected, use or adjust to the appropriate year. to The date may be adjusted up to Dec. 31, 2050. 29 Setting the Menu Language/Date and Time (Cont'd) 4 4.

(1) Once the "YEAR" has been adjusted, press to move to the "MONTH" setting mode. (2) Use or to adjust the month in the same way as Step 3 on page 29. · By repeating procedures (1) and (2) above, adjust the date-and-time setting, and set the date format. · The date format can be selected from among three patterns: yy/mm/dd, dd/mm/yy, and mm/dd/yy. · By using , you can return to the previous screen and make corrections.

5 5. Once you have finished making all of the settings, press the SET/DISP. button. 6. After finishing the settings... · If you turned the power ON with the main switch (by opening the lens cover), you can take pictures once the lens has reached its extended position. · If you made the settings after pressing the PLAY button, the LCD monitor will display playback images. * The internal clock is maintained by a back-up battery.

Without a battery in the camera, the information will be maintained for about 24 hours. If the battery is removed for some time, you may have to reset the information (p.119). * Do not remove the battery from the camera for at least three hours after making new date-and-time settings. They will be lost if the back-up battery is not fully charged. 30 Basic Operation Holding Your Camera Taking Pictures - Hold the camera securely with both hands and your elbows against your body for a stable position. - To take a vertical picture, hold the camera so that the flash is at the top. Please be careful that your fingers, hair, or the strap do not cover the lens, flash, or the autofocus sensor windows. Viewfinder LED Viewfinder LED Green LED Viewfinder LED Indicators When the LED Indicators light, they mean the following: · Green LED: (On) Camera ready to shoot, Flash charging, Formatting the card, USB cable is being connected, Card being accessed (Flashing) Warning that the camera cannot auto-focus (AF), hand shake warning (flash OFF mode), System error; Card has insufficient memory, is faulty, not formatted; Insufficient battery warning · In the macro-photo mode (p.46), we recommend that you use the LCD monitor for composing your pictures (p.

34). If you use the viewfinder, what you can see and what the camera records may be different. 31 Taking Pictures (Cont'd) Selecting the Shooting Mode - A range of shooting modes are provided and you can select the shooting mode that best suits your subject and the shooting conditions.

1 1. Open the lens cover and turn the power on so that your subject appears on the LCD monitor.
Then press the MODE button. 2 2. Use the or button to bring up the shooting mode icons and select the mode you want to use. 3. Once you have selected a mode, press the SET/DISP.
button to complete the setting. The camera then goes back to being ready to shoot. Available modes AUTO This is the normal mode for most shots. When you take pictures in this mode, the camera adjusts automatically itself to the suitable setting for you. (p.34) SCENE SELECT You simply select a mode suited to the shot you are taking. Then the camera enables you take pictures in this mode. (p.62) MOVIE/VOICE You can shoot movies with sound. (p.

42) MANUAL In Manual mode, you can make fine adjustments to the camera settings to achieve just the effect you want. (p.74) The default setting is "Program Mode". (p.76) SETUP By selecting different options in the SETUP menu, you can customize the camera settings to make it even easier for you to use. (p.106) - · Select the camera settings that best suit the shooting conditions before taking pictures. See p.33 for information on the functions that are available in each mode. 32 Taking Pictures (Cont'd) Available Functions by Mode (menu-based) 1.
AUTO (p.54) - Color - Continuous - Image Size - Memory Priority - Self Timer 2. SCENE SELECT (p.62) - Scene - Continuous - Image Size - Memory Priority - Self Timer 3. MOVIE/VOICE (p.
66) - Postrecording - Recorded Message - Exposure Compensation - White Balance - Memory Priority - Self Timer (p.56) (p.57) (p.58) (p.60) (p.
61) 4. MANUAL (p.74) - Program - Aperture - Manual - Continuous & Bracket - Image Size - Memory Priority - Self Timer - Color - Exposure Compensation - White Balance - ISO - Fixed Focus - Custom 5. SETUP (p.106) - Format - Monitor - Photography Settings - Sound - Basic Set Up (p.76) (p.78) (p.79) (p.81) (p.58) (p.

60) (p.61) (p.56) (p.71) (p.72) (p.82) (p.82) (p.83) (p.64) (p.57) (p.
58) (p.60) (p.61) (p.68) (p.70) (p.
71) (p.72) (p.60) (p.61) (p.108) (p.
110) (p.113) (p.117) (p.118) · Refer to the page given in parentheses for information on selecting menu options and detailed information on the menu options.
33 Taking Pictures (Cont'd) Taking Pictures using the LCD Monitor - This section explains the basic procedure for shooting still images using AUTO mode. - We recommend that you prepare a fully charged spare battery (sold separately, rechargeable lithium-ion battery NP-600) or use the AC adapter AC-9 (sold separately). 1 1. Opening the lens cover turns ON the power. · If the surface of the lens is dirty, gently wipe it clean with a soft, dry cloth. 2 2.

The LCD monitor lights up and the live image (the image seen through the camera lens) is displayed. · The date and time display disappears after about 5 seconds. 3 3. Set the shooting mode to "AUTO". (p.32) · Check that the shooting mode icon (í) is in the position. 34 Taking Pictures (Cont'd) 4 4. Compose the shot on the LCD monitor and use the zoom buttons to set the size of the subject. Take care also to position the auto-focus mark on the subject you want to focus on. · If you press the TELE (Telephoto) Zoom button, the camera zooms in, while if you press the WIDE (Wide-angle) button, it zooms out.
· If the subject you wish to focus on is not in the screen center, use "Shooting with Focus Lock" (p.41). 5 5. Press the shutter button half way and a green LED lights in the viewfinder and on the LCD monitor, indicating that the focus and exposure are locked. · The icon also appears.
· If it is difficult to focus, the green LED will flash. See page 37. 6 6. Take a picture by pressing the shutter button further. When it makes a sound, the shot has been taken, and the image will be recorded on the card.
· If you set the shutter sound to "OFF" in the Sound settings (p.117), the camera makes no sound when you press the shutter button. 35 Taking Pictures (Cont'd) 7 7. The green viewfinder LED lights while the data is being written to the card. Recording is finished when the green LED goes off. · Once all the data has been written to the card, the live image reappears. · While the card is processing image data, you cannot operate the camera. Do not open the battery/card cover while the green LED is lit. 8. When you are finished taking pictures, close the lens cover and turn OFF the power supply.

Daytime (normal) shooting distances Focal Length Wide-angle* Telephoto** Shooting Distance 0.5m (1.6ft) to 0.8m (2.6ft) to * Equivalent to 34mm in 35mm camera conversion **Equivalent to 102mm in 35mm camera conversion · If you wish to take a picture of a subject closer than the above ranges, use the macrophoto mode (pp.44, 46). 36 Taking Pictures (Cont'd) When you press the shutter halfway and the green LED flashes... This may suggest that the focusing on the subject is difficult, and/or the subject is too dark.
Should this be the case, please take the following steps. · Check that you are not too close to the subject and then position the autofocus mark over the subject. (See p.36 for information on shooting distances.) · If the subject is too dark (such as a person in the shade), use the flash (pp.
44-46). · Use a similar subject, at the same distance and with the same brightness, to adjust the auto focus and exposure. After the focus lock is set, aim at your original subject and shoot your picture (p.41). About Auto Power Off Function If you do not operate for a certain period of time with the camera power on and the lens cover open, the auto power off function (pause status) will be activated and power will be turned off (the lens retracts).
· When finished shooting, or if you are not going to take a picture for a long time, close the lens cover. · The default auto power off time is set at three minutes. This can be changed in the set-up menu (p.119). · When using an AC adapter, the auto power off function will be activated. · Connecting the USB cable (p.122) disables the Auto Power Off function. 37 Taking Pictures (Cont'd) Image Display Shooting with the LCD monitor displays the picture and the following other information: · You can set the camera so information is not displayed (p.111). q Manual mode w ISO e White Balance r Flash mode t Macro mode y AF display u Flash firing icon i Digital Zoom Magnification o Battery Remaining Display !0 Counter !1 Custom set !2 Scene mode !3 Exposure Compensation !4 Aperture setting !5 Shutter speed !6 Shooting mode selection mark !7 Self-timer icon !8 Recording Media Display !9 Picture Size @0 Continuous shooting mode icon · The marks beside the items below indicate either the mode in which that item can be set or that the item is displayed when that mode is selected.

: Auto, : Scene Select, : Movie, : Manual q Manual mode When the camera is set to Manual mode, the selected shooting mode is displayed.

See pages 74-79 for information on setting the shooting mode. r Flash mode , , Shows the selected flash mode. See p.44-46 and p.114 for information on setting the flash mode. w ISO Displayed when the ISO sensitivity setting is locked. See p.82 for information on setting the sensitivity. t Macro mode , , , e White Balance , White balance icon will be displayed.

For details of how to select the white balance, see page 72. 1) Displayed when Macro mode (p.46) is set. When Macro mode is not set, the icon appears when the shutter button is pressed half way and the shot is focused. 2) Fixed focus When Fixed focus mode (p.

82) is set, the selected shooting distance is displayed. 38 Taking Pictures (Cont'd) y AF display , , , !4 Aperture setting 1) When Program mode (p.76) is set, the aperture setting is displayed when you press the shutter button half way. When Aperture (p.78) or Manual (p.

79) mode is set, the aperture setting is displayed all the time. , , 2) Date and time display The shooting date and time are displayed for roughly 5 seconds when the camera is switched on. 1) Appears when the shutter button is pressed half way and the shot is focused. This icon flashes when the image is not in focus. 2) AF lock The icon appears when the AF Lock function (p.77) is used. u Flash firing icon , , 1) Appears when the flash is used. 2) AE Lock The icon appears when the AE Lock function (p.77) is used. !5 Shutter speed When Program mode (p.

76) is set, the shutter speed is displayed when you press the shutter button half way. When Manual mode (p.79) is set, the shutter speed is displayed all the time. i Digital Zoom Magnification , , This will be displayed when the digital zoom function is used (p.114). o Battery Remaining Display , , , !6 Shooting mode selection mark , , , The selected shooting mode is displayed beside the mark on the LCD monitor panel. !7 Self-timer icon , , , Displayed when Self-timer mode (p.61) is set. If the battery is being used, the remaining battery power will be displayed in two levels (p.21).

!0 Counter , , 1) The remaining number of pictures you can take will be displayed. 2) Card storage level indicator Shows the amount of space left on the card during movie shooting. !8 Recording Media Display , , , !1 Custom set Displayed when Custom function (p.83) is set. This shows the media type.

· SD Memory Card or MultiMedia Card : SD* · Memory Stick : MS * Even when a MultiMedia Card is used, the type will be displayed as SD. !2 Scene mode , / Color display !9 Picture Size , , 1) Displays the shooting mode when Scene mode (p.64) is selected. 2) Displays the selected color icon when Color mode (p.56) is set.

1) The picture size of the photo being taken will be displayed. is displayed. 2) When shooting a movie, @0 Continuous shooting mode icon , , Displayed when continuous shooting or bracket shooting is set. See p.57 and p.81 for information on setting continuous or bracket shooting. (Bracket shooting is only available in mode.) 39 !3 Exposure Compensation , The compensation value will be displayed. For details of how to adjust the exposure, see pages 71 and 77. Taking Pictures (Cont'd) Taking Pictures using the Viewfinder - This section describes how to use the camera's viewfinder to take pictures.

Using the viewfinder uses less battery charge than taking pictures using the LCD monitor. 1 1. Open the lens cover and turn the power on. 2 2. Press the SET/DISP. button to switch the LCD monitor off. 3. Looking through the viewfinder, compose the shot so that the subject you want to photograph is in the center of the image. Then take the picture. · No auto-focus mark is displayed when you take pictures using the viewfinder.

Position the subject in the center of the image. · The procedure for taking the picture is the same as that described in "Taking Pictures Using the LCD Monitor". (p.34-36) · The process of recording the data to the card is finished when the green viewfinder LED goes off. 40 Taking Pictures (Cont'd) Shooting with Focus Lock - If the subject you wish to focus on is not in the center of the screen, use the focus lock photography.

1 1. Align the auto focus mark on the subject, and push the shutter button half-way. The green LED light will come on, locking the focus position. · When you take pictures using the viewfinder, no auto-focus mark is displayed. Position the subject in the center of the image.

· The exposure is fixed at the same time the focus is locked. · If you release your finger from the halfpushed shutter button, the focus lock will be released and you can repeat the procedure. 2 2. With the shutter button pressed halfway, re-compose your photo and press the shutter button all the way to take the picture.

· When re-composing the photo, do not change the shooting distance. If the distance has changed, repeat the procedure. The following subjects may be difficult to bring into focus: · Subjects with no contrast (variance in brightness, e.g., the sky, a white wall, the hood of a car) · Subjects with only horizontal lines and no surface texture · Quickly moving subjects · Poorly lit subjects (in a dark place) · Subjects with a strong light or reflected light behind them · Subjects in a flickering light, such as a fluorescent light In the above circumstances, take your picture after the focus lock is set to 41 the same distance and brightness as the subject. Taking Pictures (Cont'd) Shooting Movies - You can take a movie with sound.

Your camera records an image with a 320 × 240 pixel count. - While you are shooting a movie, the LCD monitor stays on. Even if you press the SET/DISP. button, the LCD monitor will not turn off. Please view the LCD monitor while shooting your movies. 1 1. Open the lens cover and turn the power on, so that the live image appears, then press the MODE button. 2 2. Press the or button to select "MOVIE/VOICE" mode and then press the SET/DISP. button.

3 3. The movie screen appears and you are ready to start shooting. · Press the MODE button to disable the setting and return to the screen in step 2. 42 Taking Pictures (Cont'd) 4 4. When you press the shutter button, your movie will start recording.

· You need not hold the shutter button down. · When the remaining time runs out, the camera stops recording automatically. If you wish to stop while the camera is recording, simply press the shutter button again. · The elapsed time is displayed on the upper right of the screen. · See p.

50 for information on how to play back movies. NOTE: 1) While recording a movie, the sound is also being recorded, so take care not to cover the microphone on the front of the camera with your fingers, etc. 2) Once you have pushed the shutter button, and started taking a movie, you cannot use the optical zoom.

3) The digital zoom is also inoperable. 4) While shooting a movie, the sound is always recorded with built-in microphone. Therefore, you cannot take the movie without sound. 43 Selecting the Flash/Macro Mode - You can set the flash mode and macro that best suits the subject. - Once a mode is set, you can shoot continuously. It is recommended that the mode should be returned t o AUTO mode (no display) after shooting. - Also, when you turn the camera OFF, the macro-mode you set is canceled and the camera automatically returns to AUTO-mode shooting operation (no display).

But the flash-mode setting remains in effect even if you switch the power OFF and back ON. 1. Turn the power on so that the LCD monitor is lit. 2. By pressing or , bring up the desired mode icon on the LCD monitor. Pressing enables the selection of the following modes. 1) AUTO (Automatic Flash) (p.45) 2) Fill-In (p.45) 3) Off (Flash Override) (p.46) · Every time the list.

is pressed, the mode symbol will be displayed one by one, through Pressing enables the selection of the following modes. 1) AUTO mode (no display) (p.45) 2) Macro-photo mode (p.46) · Every time the list. is pressed, the mode symbol will be displayed one by one, through 44 Selecting the Flash/Macro Mode (Cont'd) Switching the Flash Mode AUTO (Auto Flash) - This is the normal mode.

When the camera is turned ON, it is set to Auto (Auto Flash). No icon will be displayed on the LCD monitor. - The flash will operate automatically when it is dark. When the flash will be used for a shot, the icon appears on the LCD monitor and the red lamp lights when you press the shutter button half way. · The green viewfinder LED that lights after you use the flash shows that the flash is recharging.

*The shutter will not operate until charging ends. · The shutter speed is slower than 1/60 second at wide angle and 1/100 second at telephoto. Keep in mind that the picture will be blurry due to camera shake. · It is best to use the red-eye reduction when using a flash with people. (p.114) Flash Shooting Distances (ISO : AUTO) Focus Distance Wide-Angle * Telephoto ** Shooting Distance 0.5m (1.6ft) to 2.3m (7.5ft) 0.*

*8m (2.6ft) to 1.3m (4.3ft) * Equivalent to 34mm in 35mm camera conversion **Equivalent to 102mm in 35mm camera conversion · If the shooting range is not in the above range, the picture may appear too bright when it is too close, and the picture may appear dark without enough lighting when it is too far. It is recommended you check the photo with the LCD monitor after shooting. · The shooting range above does not include the Macro Mode. Fill-In - Use this mode when a shadow falls on the subject's face due to shade or artificial lighting, or when taking a picture against the light. - Regardless of the brightness of the surroundings, the flash will always comes on. 45 Selecting the Flash/Macro Mode (Cont'd) Off (Flash Override) - Use this mode for places (such as museum) where flash is prohibited, or when taking a picture of a night view, or taking a picture using indoor lighting. - The flash will not come on even when it is dark. · Use a tripod to prevent shaking as shutter speeds are slower in the dark. · If the green LED flashes when the shutter button pressed half-way, this is a warning that the lighting is not sufficient and the resulting picture will be dark. Shooting Close Up Range Macro-photo Mode - Use this mode when you want to be close to the subject. - If the distance between the camera and the subject is close, there will be a difference between the image in the viewfinder and the picture that is actually taken. It is recommended that the LCD monitor be used.*

- If you use the TELE zoom button to zoom in fully on the image and then press the button, the camera switches to Super Macro mode, allowing you to zoom in even further on the subject. · Use a tripod to prevent shaking as shutter speeds are slower when taking close-ups. · If you use the TELE flash when shooting very close to the subject, the image may come out too bright. For information about the flash shooting distance, see page 45. Macro-photo Mode Shooting Distances Focus Distance Shooting Distance Wide-Angle 5cm (2.

in.) to Telephoto 0.5m (1.6ft) to Telephoto 0.2m (7.9ft) to 0.4m (15.7ft) Macro Mode (normal) Super Macro Mode 46 Playback Playing Back Pre-recorded Images - You can play back pre-recorded images on the LCD monitor. - When you play back images, it doesn't matter whether the camera's power is OFF or ON. - Just in case battery power runs low, have a spare charged battery pack (sold separately, Rechargeable Lithium-ion Battery NP-600) on hand.

Alternatively, using the AC adapter AC-9 (sold separately) is recommended. 1 1. Press the PLAY button and the last recorded photo will be played back on the LCD monitor. · If there isn't any image data recorded, the message "NO DISPLAY DATA" will be displayed. 2. Every time you press back. or , the previous or next photo will be played · If you press the W side on the zoom button, Index Playback will start. For operation after play back please refer to page 89, Items 2 and 3. · Pressing the T side of the zoom buttons zooms in on (enlarges) the subject. See p.

90 for details. · Half depress shutter button when power is ON and when playing back in normal image size. It will turn to through image and photographing will become available again. · When you have finished playing back photos, turn off the LCD monitor by pressing the PLAY button again to prevent battery consumption. Also, if you will not be taking any photos, close the lens cover, turning OFF the power.

47 Playback (Cont'd) The Playback Image Display In addition to the images you've taken, the following information is displayed. · You can set the camera so information is not displayed (p.111). q w t y u e r i o q File Number 1) The file and director y numbers recorded in the card are displayed. 2) Shows the zoom ratio when you are playing the image back enlarged (digital zoom).

r Image No. (Playback Frame No./ Total Frame No.) Your camera is capable of playing back up to 999 frames. If there are more than 999 frames on a card, it is not possible to use playback. w Protected Display If an image is protected, the Protected symbol is displayed. t Date & Time Recorded Shows the date and time of shooting. y Sound recording time Shows the recording time when you play back a movie or image with sound. This also shows the playback time during sound playback. e Remaining Battery Power Display When the batter y is in use, the remaining power is displayed in two levels (p.

21). 48 Playback (Cont'd) u After Recording is displayed in still images with sound. o Recording Media Display The type of media in use is displayed. · The SD Memory Card or Multimedia Card :SD · Memory Stick :MS * Even if a Multi-media Card is used, "SD" will be displayed.*

i Image Size 1) Image size is displayed. 2) is displayed in movie images. 3) For images with voice memos, the icon is displayed. 49 Playback (Cont'd) Playing Back Movies - Use the procedure below to play back movies you have shot (p.42). 1 1.

After pressing the PLAY button, use or to select the movie you wish to see. · is displayed on the movie image. 2 2. If you press the shutter button, the movie images will be played back. When playback is finished, the display returns to screen 1.

· Symbols displayed when a movie is played back is elapsed playback time only. · If you want to stop during playback, press the shutter button again. 50 Erasing the Playback Image Erasing Unwanted Images - You can erase unwanted still pictures, movie images etc. (you can select one frame, multiple frames or all frames.) - Once images are erased, they cannot be recovered.

- Protected images (p.101) cannot be erased unless the protection is removed. 1 1. After pressing the PLAY button, use or to select the image you wish to erase. · When you are erasing all or some of the frames, it does not matter which frame is displayed. 2 2. When you press the Delete button, the frame selection screen appears. Press the or button to select "ONE" (the selected image), "SELECT" or "ALL". · To cancel image deletion, select CANCEL and press the SET/DISP. button.

The step 1screen reappears. 3 3. When you press the SET/DISP. button, deletion starts and the "DELETE..." message appears. When the process is finished, the display returns to the playback image. · If there isn't any image data, "NO DISPLAY DATA" is displayed. · If you selected "SELECT", refer to p. 52. 51 Erasing the Playback Image (Cont'd) If you chose "SELECT" 1 1. If you selected "SELECT" on p.51-2 and then pressed the SET/DISP. button, an 8-frame image is displayed.

Using , , , or , move the red frame to an image you wish to erase and press the SET/DISP. button. · Pressing when the first frame is selected or on the last frame will switch the screen to the next eight images. 2 2. A yellow frame appears around the selected image.

To select additional images, repeat the selection procedure (return to step 1). When you have finished selecting images, use the , , , or button to select END and then press the SET/ DISP. button. 3 3. A confirmation screen appears. To carry out erasing, select "YES" with or , then press the SET/DISP. button. · If you select "NO" and press the SET/DISP. button, you will return to the playback image without erasing anything. 52 Erasing the Playback Image (Cont'd) 4 4.

Once erasing starts, "Now DELETE..." is displayed. Once erasing is completed, the disply returns to the playback image. 53 Advanced Operations and Shooting Using the Shooting Menu Using the Auto Mode Menu - This section explains the menu options that are available in Auto mode. - Unless otherwise stated, the settings for these menu options are retained until you change them, regardless of whether the power is turned off. Available menu options - Color 1 : Allows you to take pictures in color modes other than normal color photography, such as black & white and sepia. (p.56) Continuous : Allows continuous shooting.

(p.57) Image Size : You can choose from 3 image sizes. (p.58) Memory Priority : Allows you to select the memory priority. (p. 60) Self Timer : You can take pictures using the self-timer. (p.61) 1. Select "AUTO" and press the SET/ DISP. button.

2 2. Pressing the MENU button displays the available menu option icons. 54 Using the Shooting Menu (cont'd) 3 3. Use the or buttons to select the option you want to set. 4 4. Use the or buttons to select the desired mode from the menu. 5 5. Press the SET/DISP. @@The selected mode icon appears on the LCD monitor. · To set another menu option, without pressing the SET/DISP.

button, use the or buttons to select the option you want to set. 55 Using the Auto mode menu (cont'd) Changing the color effects - This feature allows you to change the color effects in your photos. - This option is also available in the mode menu for Manual (p.74). 1 1. Select the Color menu option. · The current setting is displayed. "Standard color" is displayed as the default setting. 2. Use the or buttons to select the desired color mode.

Press the SET/DISP. Available modes Standard color (default) : Normal color mode. Black & white Sepia W (Warm) color : Allows you to shoot in black and white. : Allows you to shoot sepia-tone images. : This setting gives quite soft tones and warm color hues similar to those of negative film.

This option is best for shooting subjects such as people and sunsets, etc. : This setting gives harsher tones and cool color hues similar to those of reversal film. This option is best for shooting subjects such as landscapes. - C (Cold) color 56 Using the Auto mode menu (cont'd) Continuous Shooting - In this mode, the camera takes pictures continuously for as long as the shutter button is held down. This mode is ideal for taking consecutive pictures of moving subjects.

- This option is also available in the mode menus for Scene Select (p.62) and Manual (p.74). 1 1. Select the Continuous menu option. · The current setting is displayed. "SINGLE SHUTTER" is displayed as the default setting. 2. Use the or buttons to select the desired continuous shooting mode. Press the SET/DISP.

Available modes Single Shutter (default) : Normal single-frame shooting mode. Continuous shutter : Allows you to take multiple shots by holding down the shutter button. : Shoots up to 3 consecutive pictures with a shorter interval between shots. Use the viewfinder to shoot pictures in this mode. The images are not displayed on the LCD monitor during continuous shooting. - Super Continuous · The exposure and focus are fixed in the first frame. · If you use the flash, the interval between shots becomes longer to allow the flash to recharge. · The shooting interval also varies depending on the subject and the shooting conditions. 57 Using the Auto mode menu (cont'd) Selecting the Image Size - You can choose from 3 image sizes depending on the sort of picture you want to take. - All on the same card, you can choose a different image size for every picture.

Every time you change the image size, the number of remaining photos also changes, which is displayed on the LCD monitor. - This option is also available in the mode menus for Scene Select (p.62) and Manual (p.74). 1 1.

Select the Image Size menu option. · The current setting is displayed. "4M NORMAL" is displayed as the default setting. 2. Use the or buttons to select the desired image size.

Press the SET/DISP. G Image size and pixel count (width) × (height) 1) 4M: 2272 × 1704 pixels (approximately 3,870,000 pixels) This is the highest quality image.

Use this mode for important pictures you want to keep, for images you want to edit on your computer, etc. As it is the largest, it is also ideal for printing out your enlarged photos. To take better quality images, select "FINE". @@@@@@@@@@@@@@"PRIORITY SD" is displayed as the default setting. 2. Use the or buttons to select the card type to be given priority. Press the SET/DISP. @@@@@@@@"SELF TIMER OFF" is displayed as the default setting.

2. Use the or buttons to select "3 SEC" or "10 SEC". Press the SET/DISP. @@3. @@· The "10 SEC" setting is cancelled after each shot. @@@@@@@@@@@@1 1. Select "SCENE SELECT" and press the SET/DISP. button. 2 2. @@As described on p.
55, use the want to set. 4. @@Press the SET/DISP. @@The selected mode icon appears on the LCD monitor. ·To set another menu option, without pressing the SET/DISP.
button, use the buttons to select the option you want to set. or 63 Using the Scene Select Mode Menu (Cont'd) Selecting the right mode for your shot - You can select the best mode for the scene you are shooting. - In dark locations, you should use a tripod to prevent camera shake. 1 1. Select the Scene Mode setting menu option.
·The current setting is displayed. "PORTRAIT" is displayed as the default setting. 2. Use the or buttons to select the desired scene mode. Press the SET/DISP. 64 Using the Scene Select Mode Menu (Cont'd) Available modes Portrait : Use this mode when you want to soften the background so that the subject stands out clearly. This mode allows you to shoot soft attractive portrait shots with extra dimension. Scenery : The ideal mode for taking pictures of scenery or buildings, etc. Night : This is the best mode for shots taken at night or dusk, or for shots of people taken with the flash against a nighttime or evening backdrop. A tripod should be used to prevent camera shake.

: This mode is ideal for snapshots and you can take a photo between the ranges of 0.8m and 2.5m. Use this mode when you want someone to take a picture for you without having to worry about the auto-focus or for subjects that pose problems for the camera's auto-focus function. This mode works best with the zoom set to the wide-angle (W) position. : This mode is the best choice for shots of fast-moving subjects, such as pictures taken as sporting events. : This mode is intended for shots of children or women, since it gives particularly beautiful skin tones and also gives priority to the shutter response so that you can capture fleeting laughter or smiles. - - Snap - Sports - Angel 65 Using the Movie/Voice Mode Menu Using the Movie/Voice Mode Menu - This section explains the menu options that are available in Movie/Voice mode. - Unless otherwise stated, the settings for these menu options are retained until you change them, regardless of whether the power is turned off. Available menu options - Movie (default) - Postrecording : Allows you to shoot movies.
(p.42) : You can add voice comments to still images you have shot. (p.68) Recorded Message : You can record voice only. (p.
70) Exposure Compensation : Allows you to adjust the brightness of your images. (p.71) White Balance : You can set the correct white balance for your light source. (p.72) Memory Priority (p.
60) Self Timer (p.61) · Because the details for the Memory Priority and Self Timer modes are as described in the menu options for Auto mode, these items are not explained in this section. 1 1. Select "MOVIE/VOICE" and press the SET/DISP. button. 66 Using the Movie/Voice Mode Menu (Cont'd) 2 2. Pressing the MENU button displays the available menu option icons. 3. As described on p.55, use the want to set.

4. Use the or or buttons to select the option you buttons to select the desired mode from the menu. 5. Press the SET/DISP. @@The selected mode icon appears on the LCD monitor. ·To set another menu option, without pressing the SET/DISP. button, use the buttons to select the option you want to set. or 67 Using the Movie/Voice Mode Menu (Cont'd) Using After Recording - You can add voice comments (After Recording) to photos you have already taken. You can also erase previous voice comments, as well as re-write them. 1 1.
Select "ADD REC" and press the SET/ DISP. button. 2 2. Previously recorded photos are displayed. By pressing or , select the still photo to which you wish to attach a voice comment.
·Sound cannot be recorded to a photo displayed in the movie ( ) mode. ·If you press the MENU button, the selection is invalidated and you will return to screen 1. 3 3. Press the shutter button to star t recording. Record your comments facing the microphone on the front of the camera.
·When remaining time runs out, the camera stops recording automatically. You can stop recording at any time by simply pressing the shutter button again. · While recording, the elapsed time is displayed on the side of the screen. 68 Using the Movie/Voice Mode Menu (Cont'd) Erasing recorded voice comments 1 1. After playing back the images, select the image from which you want to delete the sound and press the Delete button. ·Photos with voice comments have a displayed on them. 2 2. If you wish to erase only the voice comments, select "VOICE", and if to erase all the voice comments attached to the pictures in one go, select "VOICE & PICTURE". Use or to select the appropriate setting, and then press the SET/DISP. button.

·If you decide not to erase, select "CANCEL" or press the SET/DISP. button again. 3. When the "Now DELETE..." sign disappears, erasing has finished and you will return to the through image. ·To re-record, erase the recorded voice comments once using Step 1 to 2 on page 69, and then repeat the procedures again in Step 1 to 3 on page 68. · It is not possible to record to a protected photo or when a card doesn't have enough space. · Making recording with After Recording reduces the number of pictures you can take.
·See p.91 for information on playing back sound. 69 Using the Movie/Voice Mode Menu (Cont'd) Making Voice Memos - This feature allows you to record just sound. - Take care not to cover the microphone on the front of the camera. 1 1.
Select "VOICE" and press the SET/ DISP. button.. 2 2. Screen 2 will appear and the camera enters in the voice recording mode.
Press the shutter button and recording begins. ·If you do not press the shutter button, you can return to screen 1 without making a recording by pressing the MENU button. · When the available recording time runs out, recording will end automatically. If you wish to stop recording, simply press the shutter button again. · While recording, the elapsed time is displayed on the upper right of the screen.