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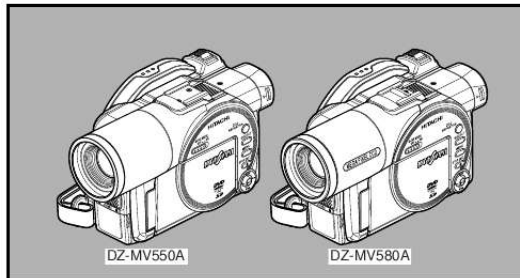
You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI DZ-MV550A. You'll find the answers to all your questions on the HITACHI DZ-MV550A in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HITACHI DZ-MV550A  
User guide HITACHI DZ-MV550A  
Operating instructions HITACHI DZ-MV550A  
Instructions for use HITACHI DZ-MV550A  
Instruction manual HITACHI DZ-MV550A

## HITACHI Inspire the Next Instruction Manual



DZ-MV550A  
DZ-MV580A



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Thank you for buying a Hitachi product. Please take time to become familiar with the manual and how it is set up. Keep it handy for future reference.  
Be sure to read page 187 before unpacking the provided CD-ROM.  
The illustration of DZ-MV550A is shown on the front cover of this instruction manual. The method for operating the DZ-MV550A is the same as that for DZ-MV580A.

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English



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**Manual abstract:**

@@@ Keep it handy for future reference. Be sure to read page 187 before unpacking the provided CD-ROM. The illustration of DZ-MV550A is shown on the front cover of this instruction manual. The method for operating the DZ-MV550A is the same as that for This manual was printed DZ-MV580A. with soy based ink. Printed on recycled paper QR35303 Hitachi, Ltd. 2004 Printed in Japan OS-H(I) English DVDCAM PC Software Support Center URL <http://dvdcam-pc.support.hitachi.ca/> Important Information For Your Safety The power switch turns the DVD video camera/recorder on and off, leaving the date/time feature unaffected.

If the camera/recorder is to be left unattended for a long period of time, turn it off. WARNING : TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. WARNING : TO PREVENT FIRE OR SHOCK HAZARD, USE THE RECOMMENDED ACCESSORIES ONLY. WARNING: TO PREVENT FIRE OR SHOCK HAZARD, BE SURE TO USE THE SPECIFIED AC ADAPTER/CHARGER (DZ-ACS1). The DVD video camera/recorder and AC adapter/ charger have the following caution marks.

**CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN** Identifications of caution marks This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit. This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully to avoid any problems. CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT OPEN.

**NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.** Precautions WARNING: Many television programs and films are copyrighted. In certain circumstances, copyright law may apply to private in-home videotaping of copyrighted materials. This Class B digital apparatus complies with Canadian ICES-003. The liquid crystal display (LCD) panel is made by highly precise technology. More than 99.99% of its picture elements (pixels) are effective, but some (less than 0.01%) may appear as colored bright dots. This does not indicate a fault as the LCD panel stretches the limits of current technology.

**CLASS 1 LASER PRODUCT CAUTION** This product contains a laser diode of higher class than 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel. English 2 Warning: 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. Note: 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 by one or more of the following measures: Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver. Connect the equipment into 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. Caution to the user: Changes or modifications not expressly approved by the manufacturer void the user's authority to operate the equipment. Microsoft, Windows, Windows 98, Windows 98 Second Edition, Windows Me, Windows 2000 Professional, and Windows XP are registered trademarks of Microsoft Corporation.

Intel, Pentium Processor, and Celeron Processor are registered trademarks of Intel Corporation. IBM and PC/AT are registered trademarks of International Business Machines Corporation. Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Other company names and product names listed are trademarks or brand names belonging to each individual company.

SD logo is a trademark. 3 English **IMPORTANT SAFEGUARDS** In addition to the careful attention devoted to quality standards in the manufacture of your video product, safety is a major factor in the design of every instrument. But, safety is your responsibility too. This page lists important information that will help to assure your enjoyment and proper use of DVD video camera/ recorder and accessory equipment. Please read it carefully before operating your video product and keep it in a handy place for future reference. 1 **INSTALLATION** Read and Follow Instructions -- All the safety and operating instructions should be read before the video product is operated. Follow all operating and use instructions. 7 **Ventilation** -- Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the video product and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video product on a bed, sofa, rug, or other similar surface.

This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the video product manufacturer's instructions have been followed. mekoalbum kawaii koneko key to chise cat book MOMO momogatoiredemizubitashi yohsinarish yohsinarishashin namemekogaikiteita album Zoo Docter Part 1 Zoo Docter Part 2 auto moter mitoniikikata kabushiki yakamashii Why? mitono abcdfvcvdsz tadashiigenkou tadashiigenkou nurie mito mito hirayamo akiko sasaki akemi horie youji setuko kimio igarashi kuro kakurai kusano oomori matuda mother diet 2 3 4 a a fung a fung a fung a fung fung a fung fung Retain Instructions -- The safety and operating instructions should be retained for future reference. Heed Warnings -- Comply with all warnings on the video product and in the operating instructions. Power Sources -- This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your video dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions. Overloading -- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.



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Overloaded AC outlets and extension cords are dangerous, and so are frayed power cables, damaged or cracked wire insulation and broken plugs. They may result in a shock or fire hazard.

Periodically examine the cord and have it replaced by your service technician if appearance indicates damage or deteriorated insulation. Power-Cord Protection -- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance. chise 1 chise 2 chise 3 chise 4 chise 5 key 1 key 2 key 3 key 4 key 5 ebisu 1 ebisu 2 momo 1 momo 2 momo 3 i tomodach junkaikun nyanko 2 1 3 okubyo midori 2 3 mother metsuki mame 1 Part2 123 8

Attachments -- Do not use attachments unless recommended by the video product manufacturer as they may cause hazards. Caution: Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features.

This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel. 5 9 Water and Moisture -- Do not use this video product near water -- for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Accessories -- Do not place this video product on an unstable cart, stand, tripod, bracket, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance.

Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 10 English 6 4 11 An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 16

SERVICE Servicing -- Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. Conditions Requiring Service -- Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions. a. When the power-supply cord or plug is damaged. b.

If liquid has been spilled, or objects have fallen into the video product. c. If the video product has been exposed to rain or water. d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation. e.

If the video product has been dropped or the cabinet has been damaged. f.

When the video product exhibits a distinct change in performance -- this indicates a need for service. 12 Power Lines -- An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer. 17 13 14 USE Cleaning -- Unplug this video product from the wall outlet before cleaning.

Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Object and Liquid Entry -- Never push objects of any kind into this video product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video product. 18 Replacement Parts -- When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts.

Use of replacements specified by the video product manufacturer can prevent fire, electric shock or other hazards. Safety Check -- Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks recommended by the manufacturer to determine that the video product is in safe operating condition. Heat -- The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. 15 Lightning -- For added protection for this video product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable-system. This will prevent damage to the video product due to lightning and power-line surges. 19 20 Disposal of these materials be regulated due to environmental considerations. For the dd sound.

At worst the DVD video camera/recorder could malfunction. Do not expose the DVD video camera/recorder to soot or steam: Thick soot or steam could damage the DVD video camera/recorder case or cause malfunctions. Do not use the DVD video camera/recorder near corrosive gas: If the DVD video camera/recorder is used in a place where there is dense exhaust gas generated by gasoline or diesel engines, or corrosive gas such as hydrogen sulfide, the external or internal terminals could corrode, disabling normal operation, or the battery connecting terminals could corrode, so that power will not turn on.

Do not use the DVD video camera/recorder near ultrasonic humidifier: With some water in humidifier, calcium and other chemicals dissolved in water could scatter in the air, and white particles could adhere to the optical head of the DVD video camera/recorder, which could cause it to operate abnormally. Do not expose the DVD video camera/recorder to insecticide: Insecticide entering the DVD video camera/recorder could dirty the lens in laser pickup block, and in such a case the DVD video camera/recorder might not operate normally. Turn the DVD video camera/recorder off and cover it with vinyl sheet, etc.

before using insecticide. Do not use a generally available 8 cm CD lens cleaner: Cleaning the lens is not necessary when using this DVD video camera/recorder in the usual way. Using 8 cm CD lens cleaner could cause this DVD video camera/recorder to be faulty. 7 Be careful of moisture condensation: When you move the DVD video camera/recorder between places where the difference in temperatures is great - such as entering a lodge from a ski slope or going out of a cooled room or vehicle - condensation (vapor in air warmed or cooled to water droplets) could occur on the lens and/or inside the DVD video camera/recorder.



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If condensation occurs, do not open the cover of disc or card insertion block if possible. If condensation occurs on the lens, wipe it off with a soft, dry cloth. Even if the external surface of DVD video camera/recorder has dried, condensation may remain inside: Turn the DVD video camera/recorder off and leave it in a dry place for at least 1-2 hours before using it again.

Do not use the DVD video camera/recorder for a long uninterrupted period of time: This DVD video camera/recorder cannot be used for a long time continuously as a surveillance camera/monitor. If you use the DVD video camera/recorder for a long continuous period of time, the temperature of DVD video camera/recorder could exceed a limit and the recording/playback operation could be slowed down: In this case, turn it off and wait for a while before using it again. Do not turn the DVD video camera/recorder off while the ACCESS/PC indicator or CARD ACCESS indicator is lit or blinking: The ACCESS/PC or CARD ACCESS indicator is lit or blinking to show that data is being written to disc or card, or being read from it. At this time, do not do any of the following, so as not to damage the data: - Remove battery - Disconnect AC adapter/charger - Plug or unplug PC connection cable - Remove disc or card - Subject DVD video camera/recorder to severe vibrations or impact. - Violently open or close the LCD monitor CARD ACCESS indicator ACCESS/PC indicator If you turn the DVD video camera/recorder off while the ACCESS/PC or CARD ACCESS indicator is lit or blinking, turn it on again with the disc or card loaded in it: Repair of the disc or card will be executed automatically (see page 165).

Do not wipe the DVD video camera/recorder case with benzene or thinner: The coating of case could peel off or the case surface could deteriorate. When using a chemical cleaning cloth, follow the instructions. Also read the instructions attached with optional accessories: For optional accessories, observe the cautions and follow instruction manuals attached. English 8 Cautions When Storing Do not leave the DVD video camera/recorder in a place where the temperature is very high for a long period of time: The temperature inside a closed vehicle or trunk can become very high in a hot season. If you leave the DVD video camera/recorder in such a place, it could malfunction or the case could be damaged.

Also, do not expose the DVD video camera/recorder to direct sunlight or place it near a heater. Do not store the DVD video camera/recorder in a place where the humidity is high or in a dusty place: Dust entering the DVD video camera/recorder could cause malfunctions. If the humidity is high, the lens could be moldy, and the DVD video camera/recorder could become inoperable. It is recommended that you put the DVD video camera/recorder with desiccant in a box when storing it in a closet, etc. Do not store the DVD video camera/recorder in a place subject to strong magnetism or intense vibrations: This could cause malfunctions. Detach the battery from the DVD video camera/recorder and store it in a cool place: Leaving the battery attached or storing it at high temperature could shorten its life. Suggestions and Restrictions Make a trial recording: Always make a trial recording before doing actual recording to make sure that recording is normal. The data that have not been stored normally because of a defect in the DVD video camera/recorder cannot be restored. It is recommended that you use DVD-RAM disc from which recorded contents can be deleted for trial recording. Do not use the DVD video camera/recorder for professional applications: This DVD video camera/recorder is designed and produced for home-use recording and playback.

The recorded contents cannot be compensated for: Hitachi cannot compensate for any damages caused when recording is not made normally or recorded contents cannot be played back because of a defect in the DVD video camera/recorder, disc or card. Also, Hitachi cannot be responsible for your recorded video and audio. If you or a third party make a mistake when handling this DVD video camera/recorder, disc, card, etc., the recorded contents may be lost.

We cannot be responsible for compensation for damage due to loss of recorded contents. Data recorded on the disc or card in this DVD video camera/recorder using other digital/analog media or devices are protected by the copyright act and cannot be used without permission of the owner of copyright, except for personal enjoyment. Be aware that recording is restricted for some demonstrations, performances and exhibitions, even for personal enjoyment. English Copyright: 9 Read This First To guide you, we've included following six chapters. The section on "Setups" explains how to set up the DVD video camera/recorder, battery, and set the date/time. The section on "Basic Techniques" explains the basic operation of this DVD video camera/ recorder - recording of movies, still images, external input, and playback of recorded images.

The section on "Advanced Techniques" explains settings on this DVD video camera/recorder for more advanced usage. The section on "Disc Navigation" explains editing with Disc Navigation: Refer to this section when finalizing DVD-R disc and initializing DVD-RAM disc. The section on "Connecting to PC" explains the contents of provided CD-ROM and how to install the software included. "Subsidiary Information" includes an introduction to products sold separately, proper cleaning, and troubleshooting. We want this manual to be as helpful as possible, so it includes two easy ways to find the information you need: A quick index for the information you use most often (this page).

A detailed table of contents directing you to specific information quickly (see page 13-15). Get to know your DVD video camera/recorder by using this manual, and get to know Hitachi. We appreciate your business. Quick Index Available Discs..

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.. 140 With this DVD video camera/recorder you can view the picture being recorded or the playback picture whether on the LCD monitor or in the viewfinder. Opening or closing the LCD monitor switches the picture to appear on the LCD monitor or in the viewfinder. The following text describes the operation assuming that the viewfinder is used as a major monitor device.

About This Manual Displays in this manual Understand that the displays are different from those you will actually see in the viewfinder or on the LCD screen. Notation of cancel button Press the stop/cancel button to stop your operation midway, or return the menu screen to the preceding one. The expression "press the C button" will be used in this text. English 1, 2 and 3 marks beside headings Some functions of this DVD video camera/recorder are unavailable with disc or card used.



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Refer to the marks at right above each function to identify whether the disc or card is compatible with the function. Refer to these marks and identify the functions and operation to match the disc or card you use. Illustrations in this manual Although the external appearances of DZ-MV550A and DZ-MV580A are different, the method of operating both models is identical. The illustrations of DZ-MV580A are used for the explanation in this text. 10 Introduction You can start recording immediately after stopping playback (P.49, 58) Unlike tape devices, you do not need to search for the recording start position or locate the beginning of blank portion.

You can stop playback and immediately start recording: New recording will not overwrite any previously recorded data. Recorded scenes If you stop playback midway and start recording, overwrite will not occur. You can immediately play back desired recorded scenes (P.107) You do not need to rewind, unlike recorders using tape. You can select any scene you want and immediately play it back (using Disc Navigation function). You can easily print without PC (P.120) Use DPOF to set the photos to be printed and the print number among the photos recorded on SD memory card or MultiMediaCard: This is useful when printing photos on a printer conforming to SD memory card or when asking a photo lab to print them. Use Disc Navigation to create your original movie (P.126) You can delete unnecessary scenes, move any scenes, etc., and create your original movie work (Play List).

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.....156 15 English Creating DVD Video on PC from DVD-RAM Disc Recorded on DVD Video Camera/ Recorder...

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.....154 Checking Provided Accessories Make sure that you have all the following accessories in package: Battery (model DZ-BP14S): Portable power supply for this DVD video camera/recorder. Charge it before use.

AC adapter/charger (model DZ-ACSI): Used to power the DVD video camera/ recorder from AC outlet, or charge battery. DC power cord: When powering the DVD video camera/ recorder from household AC outlet, use this cord to connect the DVD video camera/ recorder and AC adapter/charger. Power cable: Infrared remote control Connect between household AC outlet and (model DZ-RM3W): AC adapter/charger. Use to control the DVD video camera/ recorder from a distance. Lithium battery (model CR2025): To power the remote control. WARNING: Keep this battery away from children. If swallowed, consult a physician immediately for emergency treatment. AV/S input/output cable: Shoulder strap: Lens cap and lens cap string: Used when viewing the picture played back Attach to the DVD video camera/recorder to Attach the lens cap when not recording, to on the DVD video camera/recorder on TV hang it from shoulder. protect the lens. screen, or input or output video from/to another video device.

Single-sided 8 cm DVD-RAM disc (in Software CD-ROM: PC connection cable: Round DVD Holder): Use this CD-ROM when connecting the DVD Use this cable when connecting the DVD To record videos (movies) and photos (stills) video camera/recorder to PC. video camera/recorder to PC. on this DVD video camera/recorder. English Note: The provided single-sided DVD-RAM disc is not generally available in shops: When purchasing a disc, order a 60minute double-sided disc (2.8GB, in Round DVD Holder).

ex. Maxell DVD-RAM Camcorder Disc 2.8GB Round Holder Type (item #567620) 16 Names of Parts 5 6 7 8 9 10 A/V 13 11 12 BATTERY EJECT 1 2 3 4 MIC (Bottom) (Inside the cover) 1 Infrared receiver (P. 34) When the remote control is used to operate the DVD video camera/recorder, this receiver will receive the infrared signal. 2 Lens cap string attachment hole (P.

32) 3 Recording indicator (P. 103) The red indicator will light during recording. 4 Stereo microphone (P. 76) 5 Optical 18 zoom lens (DZ-MV550A) Optical 10x zoom lens (DZ-MV580A) (P. 56) 6 Lens hood (P. 57) Always remove this lens hood when using generally available tele-conversion or wideconversion lens. 7 Zoom lever (P. 56) Push the lever to the T side for telephoto, or to the W side for wide-angle. 8 Accessory shoe Only for DZ-MV580A: The optional video flash, etc. can be attached here.

(See the instruction manual of device to be attached for details.) 9 External microphone jack (P. 76) 10 AV input/output jack (P. 77, 83) 11 2.5" type liquid crystal display (inside) (P. 35) 12 QUICK MODE switch (P. 63) To switch the menu display on screen between Advanced mode and Quick mode. 13 BATTERY EJECT switch (P. 40) The BATTERY EJECT switch is located on the bottom of this DVD video camera/recorder: Slide it when removing the battery. Although the external appearances of DZMV550A and DZ-MV580A are different, the method of operating both models is identical. DZ-MV580A illustrations are used in this manual. English 17 14 15 16 17 18 19 20 21 14 Viewfinder (P. 34) 22 23 24 25 26 19 CARD ACCESS indicator (P. 8, 50) 20 Card insertion block (P. 47) 21 Battery attachment platform (P. 40) 22 Record button (REC) (P. 49) 23 Power switch (P. 48, 49, 50) 24 LOCK switch (P. 50) It is recommended that you set the LOCK switch to (to the left) to prevent the power switch in the "O VIDEO" position from accidentally moving to "N PHOTO". 25 Speaker (P. 58) 26 Hand strap (P. 31) 15 Diopter control (P. 34) To adjust the focus of image appearing in the viewfinder. (Pull out the viewfinder.) 16 ACCESS/PC indicator (P. 8, 49, 50) Will blink or light when the disc in DVD video camera/recorder is accessed (write or read is executed) or the DVD video camera/recorder is connected to PC.



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17 DISC EJECT button (P. 44) Press down and release this button to open the disc guide. 18 Disc insertion block (P. 44) English 18 27 28 29 30 31 32 33 34 35 36 37 38 39 27 FULL AUTO button (P.

74) To switch the DVD video camera/recorder to full automatic. 28 FOCUS button (P. 71) To switch between manual focus and autofocus. 29 EXPOSURE button (P. 73) Press this button to adjust the exposure. 30 BLC (backlight compensation) button (P. 51) Press this button when subject is being lighted from rear. 31 DISC NAVIGATION button (P. 105) 32 SELECT button (P. 108) 33 MENU button (P.

37, 88, 111) Press this button to display the menu for setting camera functions and Disc Navigation. 34 DISPLAY (Screen display) button (P. 62) Press this button to display the details of image being played back or camera setting status, or switch the display off. 35 Volume control buttons (VOL)/ S R buttons (P. 58, 71, 73) To adjust the volume of sound from speaker, etc.

36 RESET button (P. 181) To reset all settings to defaults (status when the DVD video camera/recorder was shipped from the factory) 37 PC connection terminal (TO PC) 38 Joystick (P. 37, 58, 87, 89) Move the joystick to select a scene or menu item, and then press the center (A) to play back the scene, pause it, or designate an option of the menu. 39 Stop/cancel button (P. 10, 58, 105) To end playback or cancel setting of menu.

19 English REC DIGITAL ZOOM ZOOM 40 41 42 T W 46 47 43 48 49 50 DISC NAVIGATION DISPLAY 44 MENU SELECT DELETE 51 52 53 54 45 DZ-RM3W 40 REC button (P. 49, 50) 41 DIGITAL ZOOM button (P. 56) 42 Reverse skip button (P. 60) 43 Reverse search button (P. 59) 44 DISC NAVIGATION button (P. 105) 45 MENU button (P. 37, 90, 112) 46 ZOOM T button (P. 56) 47 ZOOM W button (P. 56) 48 Forward search button (P. 59) 49 Play/pause button (P.

58) 50 Forward skip button (P. 60) 51 DISPLAY button (P. 62) 52 Stop button (P. 10, 58, 107) 53 DELETE button (P. 111) 54 SELECT button (P. 108) \* The buttons on remote control will function the same as those on DVD video camera/recorder. English 20 12 Try to Record and Play Back using Disc (Video and Photo) Before You Begin It is recommended that you use a DVD-RAM disc for trial recording, since you can delete the recorded contents (P. 25). You can record both videos and photos on DVD-RAM disc; only videos on DVD-R disc. 1 Connect a power supply (P.

43). Power cable 1 2 4 3 AC adapter/charger DC power cord 2 Insert a disc (P. 44). 1 Press down the DISC EJECT button once and release it. 3 Insert the disc, in Round DVD Holder, into the disc guide properly until it stops, and then close the cover of disc insertion block.

DISC EJECT button DISC EJECT Disc cover 2 Gently open the cover until it stops. English PUSH CLOSE portion 21 3 Start recording (P. 49). 1 Open the LCD monitor (P. 35).

3 Press the REC button. Recording will start. Pressing the REC button again will stop recording (O VIDEO). Pressing REC will enable you to record one photo (N PHOTO). 2 While holding the gray switch at the center of power switch, set the switch to "O VIDEO" or "N PHOTO". ("O VIDEO" only for DVD-R disc) Note: When using an unformatted disc, format (initialize) it on this DVD video camera/recorder. If unformatted disc is inserted into this DVD video camera/recorder, a message will appear: Format the disc following the instructions on screen (P. 45, 135). Initializing the DVD-RAM disc will erase all the recorded contents: Make sure the contents on disc are not valuable before initializing the disc. See Check 1 on P.

163 if recording is not possible with "O VIDEO". See Check 2 on P. 163 if recording is not possible with "N PHOTO". 4 View the playback of recorded content on LCD monitor screen (P. 35). 1 After recording is finished, press the A button. The recorded scene will be played back. 2 Press the C button to stop playback. English 22 3 Try to Record and Play Back using Card (Photo) Only photos can be recorded on card. 1 Connect a power supply (P.

43). Power cable 1 2 4 3 DC power cord AC adapter/charger 2 Insert a card (P. 47). 1 Open the cover of card insertion block with power turned off. 3 Insert the card all the way until it locks, and then close the cover of card insertion block.

2 Put in a card. 23 English 3 Start recording (P. 50). 1 Open the LCD monitor (P. 35).

3 Press the REC button. Pressing REC once will record one photo. 2 While holding the gray switch at the center of power switch, set the switch to "PPHOTO". Note: See Check 2 on P. 163 if recording is not possible with "N PHOTO". 4 View the playback of recorded content on LCD monitor screen (P. 35). 1 Press the A button in recording pause status: The recorded scene will be played back. 2 Press the C button to stop playback. English 24 Discs and Cards The following table lists the storage media (discs and cards) that can be used on this DVD video camera/recorder and the functions which are available with them: Media Function Recording movie Recording still Deleting recorded image Editing on this DVD video camera/recorder Playback on DVD player

Playback on DVD video recorder DVD-RAM disc DVD-R disc SD memory card/ MultiMediaCard \*2 \*2 \*1 \*3 \*4 : Functions available; : Not available \*1: Can be played back on DVD players with the mark.

\*2: Must be finalized (see "Terminology", P. 160) on this DVD video camera/recorder before DVD-R disc can be played back on DVD player or DVD video recorder (see page 137). May not be playable on some DVD players or DVD video recorders. \*3: Cannot be played back on a DVD video recorder that does not conform to 8 cm DVD-RAM disc. \*4: There are DVD video recorders that are compatible with SD memory card or MultiMediaCard. AVAILABLE DISCS Usable discs and logos DVD-RAM Ver. 2.1 (8 cm) In Round DVD Holder DVD-R [for General Ver. 2.0 (8 cm)] Shape This DVD video camera/recorder uses 8 cm DVDRAM discs and 8 cm DVD-R discs for camcorder use.

Discs removed from Round DVD Holder cannot be used on this DVD video camera/recorder: Use them only in the holder. Do not insert a bare disc removed from the holder into the DVD video camera/recorder: It will not be removable. Note: It is recommended that you use Hitachi Maxell discs, since their compatibility with this DVD video camera/recorder has been confirmed. Using a disc other than those made by Hitachi Maxell may not allow the DVD video camera/recorder to deliver optimum performance. The Round DVD Holder cannot be used on the following DVD video camera/recorders: - DZ-MV100A - DZ-MV230A/200A - DZ-MV270A - Other DVD video camera/recorders that use square type adapters.

See page 26 for information on DVD-R disc. 25 English INFORMATION ON DVD-R DISC You cannot record a still on DVD-R disc, or delete any recorded images or data. For optimum recording on DVD-R disc, this DVD video camera/recorder writes control data to the disc in order to automatically make adjustments when it is inserted and ejected accompanying recording.



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If the disc has no area to be written for adjustment, recording may not be possible. To prevent this, do not insert or eject a DVD-R disc accompanying recording more than 100 times.

**Finalizing DVD-R disc** Before using the 8 cm DVD-R disc provided on this DVD video camera/recorder on a DVD player or DVD video recorder that is compatible with 8 cm DVD-R disc, the disc must be finalized on this DVD video camera/recorder. For the finalizing procedure of 8 cm DVD-R disc, refer to "Finalizing DVD-R Disc (finalize disc)" (P. 137). Note: When using an unformatted DVD-R disc, it is necessary to format it on this DVD video camera/recorder (see page 45). Do not insert a DVD-R disc recorded on this DVD video camera/recorder but not finalized, into a recordable device, such as a DVD video recorder: The recorded data may be damaged. DVD-R discs edited and finalized on PC or those finalized on another DVD video recorder may not be playable on this DVD video camera/recorder, depending on the editing software used or recorded status of DVDR disc. **EXAMPLES OF DISCS THAT CANNOT BE USED ON THIS DVD VIDEO CAMERA/RECORDER: DVD-RAM (2.6 GB) Ver. 1.0 DVD-R (3.**

**9 GB) Ver. 1.0 DVD-R (4.7 GB) for Authoring Ver. 2.0 DVD-RW DVD+RW DVD+R DVD-ROM DVD-Video CD-R CD-RW CD LD MO MD iD Floppy disk** Discs other than those with diameter of 8 cm CD-ROM Note: Discs recorded on PC or DVD video recorder may not be playable on this DVD video camera/recorder: If so, message "This disc cannot be used." will appear. Also, blue thumbnails will appear (Fig. 1\* on page 27), or normal playback will not be possible. English 26 **HANDLING DISCS** Using discs DVD-RAM and DVD-R discs are very delicate recording media.

Carefully read the following cautions and observe them: When using disc on this DVD video camera/ recorder, be sure to keep it in Round DVD Holder. Always use a brand new disc when recording important material. Be sure not to touch the disc exposed portion, and be careful that no dirt adheres to it. If there is dust, scratch, dirt Do not touch on disc or if it is warped, the following phenomena may occur: - Block noise in playback image - Momentary stop of playback image - Sound interrupted during playback, or abnormal Block noise sound - Blue thumbnail A l l Pr ogr ams 0 01/006 display\* (Fig.1) - Disc cannot correctly be recognized - Disc cannot be RAM PLAY initialized - Delay between video Fig.

l \* and audio Even if disc is normal, the above phenomena may occasionally occur. While the ACCESS/PC indicator is lit, do not subject disc to vibrations or impact, and avoid using DVD video camera/ recorder at extremely high or low temperatures, or in environment where condensation is likely to occur. When recording images, A l l Pr ogr ams 001 / 002 the DVD video camera/ recorder may avoid the portions of disc where recording is not possible, RAM PLAY due to dust, scratches, etc. [It will pause m at such a (Recording one scene may produce multiple portion and thumbnails.) automatically restart recording (n).

] This will cause recording to be interrupted for several seconds to several minutes, and multiple thumbnails will be created by one recording session as shown above. In this case, the recordable time on disc will decrease. Be careful when removing the disc since the metal of removal slot of DVD video camera/ recorder, and disc itself, may be hot. Storing discs When storing disc, insert it in Round DVD Holder into plastic case. Be careful that no condensation occurs on disc. Do not place disc in following places: - Direct sunlight for a long time - Where humidity is high or in dusty place - While there is heat from a heater, etc. Note: See page 82 when cleaning the removed disc. See page 81 for how to handle disc removed from Round DVD Holder. See page 81 for how to set the disc removed from Round DVD Holder or another disc correctly in Round DVD Holder. 27 English **AVAILABLE CARDS** Common cautions for disc and card SD memory card and MultiMediaCard can be used on this DVD video camera/ recorder.

**Handling card** Do not use cards other than the designated ones. Be sure to use a brand new Card when recording vital images. Do not touch the card terminal or allow it to touch metal. Terminal Do not paste anything other than exclusive label on label pasting portion. Do not subject card to impact, bend or drop it. Do not disassemble card or modify it. Do not expose card to water. Do not use or store card in the following places: - Where the temperature is high, such as in vehicle at high temperatures, under burning sun or near a heater. - Where humidity is high, or in dusty place When the erasure prevention switch on SD memory card is locked, no recording, deletion or editing will be possible on the card. It is recommended that you create a backup file for valuable data on hard disk of PC.

Do not do the following, or the data on card may be damaged or lost: - Do not remove the card or turn DVD video camera/recorder off during reading or writing of data - Do not use DVD video camera/recorder in a place subject to static electricity or electrical noise Note: This DVD video camera/recorder can play back image data recorded on other digital cameras conforming to the DCF (Design rule for Camera File system) standard. The range of image data playable on this DVD video camera/recorder is that with pixels from 80 horizontal 60 vertical to 4000 horizontal 3000 vertical. DCF is an integrated image file format of digital cameras: Image files can be used on all digital devices conforming to DCF. Image data edited on PC and certain types of image data may not be visible on this DVD video camera/ recorder. The image data recorded on another device may not be playable on this DVD video camera/recorder. Erasure prevention switch Locked status English 28 Storage Capacity on Disc or Card **RECORDABLE TIME OF MOVIE (VIDEO)** The recordable time will vary depending on the video recording quality: See page 96 for the setting of video recording quality. Movie recordable time on one disc (on single side) (when recording only movies) Recording quality XTRA FINE STD LPCM \*4 Disc used DVD-RAM Approx. 18 min \*1 Approx. 30 min \*2 Approx. 60 min \*3 No recording possible DVD-R No recording possible Approx.

30 min \*2 Approx. 60 min \*3 Approx. 30 min Application Very high quality High quality Standard quality Audio quality prioritized \*1:Variable bit recording (recording of more than 18 minutes may be possible because the transfer rate varies automatically between approx. 3-10 Mbps) \*2:Fixed bit rate: Approx. 6 Mbps \*3:Fixed bit rate: Approx. 3 Mbps \*4:Linear PCM recording (see "Terminology", P. 160) (If your DVD player does not conform to MPEG audio player 2, record in LPCM mode) Note: Audio in XTRA, FINE or STD mode is recorded in the MPEG audio layer 2 format, which is the option standard of DVD video standard. No movie can be recorded on SD memory card or MultiMediaCard.



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Although the movie quality mode can be changed midway for recordings on DVD-RAM disc, it cannot be changed on DVD-R disc once the mode has been decided. If you record in XTRA mode at high temperatures, the DVD video camera/recorder will get hot and the maximum transfer rate will be limited to approx.

6 Mbps. If a disc recorded is used at high temperatures, normal playback may be impossible: Turn the DVD video camera/ recorder off once, wait until the ambient temperature becomes lower, and then operate it again. RECORDABLE STILL (PHOTOS) ON DISC Number of recordable stills on one side of disc: Up to 999 If the disc still has free space after recording 999 stills on it, movies can also be recorded on it. 29 English RECORDABLE STILL (PHOTOS) ON CARD The number of recordable stills will vary depending on the recording quality: See page 97 for the setting of recording quality. For DZ-MV550A SIZE AND QUALITY OF PHOTOS The pixel size of stills (JPEG) that can be recorded on this DVD video camera/recorder is as follows: Model DZ-MV550A Setting Camera input 640 480 pixels External input 640 480 pixels Recording quality Capacity FINE 8 MB 16 MB 32 MB 64 MB 128MB 256 MB 512 MB Approx. 45 Approx. 100 Approx. 220 Approx. 440 Approx. 880 Approx. 1,760 Approx. 3,520 NORM Approx. 95 Approx. 200 Approx. 440 Approx. 880 Approx. 1,760 Approx. 3,520 Approx. 7,040 ECO Approx. 190 Approx. 400 Approx. 880 Approx. 1,760 Approx. 3,520 Approx. 7,040 DZ-MV580A 1,280 960 pixels 640 480 pixels The following table shows the file size and quality of one still (JPEG) recorded on card: Quality FINE File size DZ-MV550A DZ-MV580A Application When image quality is prioritized Standard quality When number of stills is prioritized (quality will be slightly inferior) Approx. 128 KB Approx. 64 KB Approx. 32 KB Approx. 512 KB Approx.

384 KB Approx. 256 KB NORM For DZ-MV580A ECO Recording quality Capacity FINE 8 MB 16 MB 32 MB 64 MB 128MB 256 MB 512 MB Approx. 8 Approx. 22 Approx. 50 Approx. 100 Approx. 200 Approx. 400 Approx. 800 NORM Approx. 14 Approx. 35 Approx. 80 Approx. 160 Approx. 320 Approx. 640 Approx. 1,280 ECO Approx. 20 Approx. 50 Approx. 110 Approx. 220 Approx.

440 Approx. 880 Approx. 1,760 (The numbers of recordable stills above are only for reference) Note: Cards used on other devices can be used on this DVD video camera/recorder. No movie or music data recorded on card can be checked, viewed or heard on this DVD video camera/ recorder. In addition, no such a data file can be displayed on this DVD video camera/recorder. Use the remaining display function to check the remaining free space on disc before use. See "Verifying Remaining Free Space on Disc or Card (Capacity)" on page 134. Some still data recorded on this DVD video camera/ recorder may not be playable on another device. Although still images are recorded on DVD-RAM disc only in the FINE mode, the quality mode can be chosen when recording stills on card. (P.

97) The file size of a photo recorded on DVD-RAM disc in "N PHOTO" status is equal to or larger than that recorded on card using the FINE quality in "P PHOTO". \* JPEG: Joint Photographic Experts Group. JPEG is one of the photo image compression standards. It is widely used in digital still cameras since JPEG files can be used on ordinary PC. When this DVD video camera/recorder records on DVD-RAM disc in "N PHOTO" status, a JPEG photo will be recorded, along with a photo that conforms to the DVD video recording (DVD-VR) format which is used to be output to TV (see "Terminology", P. 160). Only JPEG photos will be recorded on SD memory card. Note: No still can be recorded on DVD-R disc. Since the file size is restricted in all quality modes when recording photos on card (P PHOTO), the quality of photos on card may be inferior to those recorded on DVD-RAM disc (N PHOTO). English 30 Setups This section explains preparations for recording - setting up the DVD video camera/recorder and battery.

Setting Up the DVD Video Camera/Recorder HOLDING DVD VIDEO CAMERA/RECORDER Insert your right hand from the bottom of DVD video camera/recorder up to the base of your thumb. Put your hand in a position where you can easily operate the REC button and the Zoom lever. Adjust the length of hand strap so that the DVD video camera/recorder is stable when you press the REC button with your thumb. Note: Do not adjust the hand strap while holding the DVD video camera/recorder: Doing this could cause the DVD video camera/recorder to fall and be damaged. Caution: Do not lift the DVD video camera/recorder by holding the viewfinder or LCD monitor: If the viewfinder or LCD monitor comes off, the DVD video camera/recorder will fall.

31 English ATTACHING SHOULDER STRAP Be sure to pass through the 2 slots. Pass the shoulder strap through the shoulder strap attachments. ATTACHING LENS CAP 1 Attach the shorter end of lens cap string to the lens cap. 2 Attach the longer end of lens cap string to the attachment hole of DVD video camera/ recorder. Shorter end Longer end 3 Push the both sides of cap inward and attach it over the lens.

Push and fit Note: Always keep the lens cap on when not using the DVD video camera/recorder, to protect the lens. When recording, attach the lens cap to the hand strap by hooking the tab inside the cap onto strap for comfortable shooting. English 32 INSERTING BATTERY INTO REMOTE CONTROL Insert the provided lithium battery into remote control. 1 Slide the cover to remove it. 2 Insert the lithium battery with the positive R terminal facing up. 3 Slide the cover to close it. Note: The life of lithium battery is approximately one year. If the battery is discharged, no operation is possible with remote control: Replace the battery. Battery stopper REMOVING BATTERY FROM REMOTE CONTROL 1 While pushing the battery stopper, slide the battery out. While pushing battery stopper Battery stopper Warning: KEEP THE BATTERY AWAY FROM CHILDREN AND PETS.

IF SWALLOWED CONSULT A PHYSICIAN IMMEDIATELY FOR EMERGENCY TREATMENT. BATTERY MAY EXPLODE IF NOT HANDLED PROPERLY. DO NOT RECHARGE, DISASSEMBLE OR DISPOSE OF IN FIRE. Note: Replace the battery with a Hitachi Maxell, Sony, Panasonic, Sanyo, Toshiba CR2025, or Duracell DL2025. Use of another battery may present a risk of fire or explosion. Dispose of battery safely in accordance with local laws. Do not dispose of in fire. Do not short circuit the battery. Do not hold the battery with the metallic tweezers. Keep the battery in a dark, cool, dry place.

33 English Using Remote Control Point the remote control to the infrared receiver on the DVD video camera/recorder. The remote controllable distance is up to 16 feet (5 m). 10 15 10 Infrared receiver . ox 1 t ee 6f (5 m) A r pp Note: When using the remote control, make sure that the infrared receiver on DVD video camera/recorder is not exposed to direct sunlight or any intense light.



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If the infrared receiver is subject to light stronger than the infrared light from remote control, the DVD video camera/recorder cannot be operated by remote control.

If there is an obstacle between the remote control and infrared receiver on DVD video camera/recorder, remote control may not be possible. The DVD video camera/recorder uses the "VCR2" remote control code of Hitachi VCRs. If you use a Hitachi VCR, etc. with remote control code set to "VCR2", a VCR placed near the DVD video camera/recorder will also be operated by the remote control: To prevent this, change the remote control code of the VCR. VIEWING SUBJECT THROUGH VIEWFINDER 1 Pull out the viewfinder.

2 Turn the diopter control knob to adjust the focus to suit your eyesight. Note: If no image appears in viewfinder, refer to "Check 6" on page 164. If the LCD monitor is open approximately 90, the viewfinder will be off. Focusing will not be correct unless the viewfinder is pulled out. Diopter control Viewfinder Pull out the finder until a click is heard. English 34 VIEWING IMAGE ON LCD MONITOR SCREEN If you open the LCD monitor, you can monitor subject image on the LCD screen. 1 Open the LCD monitor. The LCD monitor has a portion where you can hook your finger. Hook the finger there to open the monitor. Range where the LCD monitor can be moved The LCD monitor can be opened up to approximately 90.

If the LCD monitor is open 90, it can be tilted with the screen down as much as 90, and can also be tilted with screen up and turned up to 180 so the screen faces in the same direction as the lens. If the LCD monitor is turned 180 so the screen faces in the same direction as the lens during recording, subject image will also appear in the viewfinder as a mirror image (left/right reversed). Tilt the LCD monitor to adjust its vertical angle so that you can see the screen easily. 180 90 Hook your finger (Bottom) 90 Note: If no image appears on LCD monitor screen, refer to "Check 7" on page 164. Be sure to open the LCD monitor approximately 90 before changing its vertical angle. Do not record for a prolonged time with the LCD monitor turned approximately 180 in close contact with the DVD video camera/recorder body: Doing this could cause the DVD video camera/recorder and LCD monitor to become hot. 35 English CLOSING LCD MONITOR Before closing the LCD monitor, be sure to reset it at right angles to the DVD video camera/recorder. Replace the LCD monitor on the DVD video camera/recorder with the LCD screen facing inward until a click is heard. Note: Be sure to return the LCD monitor at right angles to the DVD video camera/recorder before closing it or replacing it on the DVD video camera/recorder with its screen facing outside. If the LCD monitor is tilted, it cannot be closed to the DVD video camera/recorder.

If the LCD monitor is not securely locked to the DVD video camera/recorder, no image will appear in the viewfinder. English 36 SETTING DATE AND TIME Set the current date and time so that the date and time you make a recording can be recorded correctly. The following procedure can also be used to correct the date and time you have already set. Tilt up/down and to left/ right to select, and then press A to designate. 1 Turn the DVD video camera/recorder on.

2 Press the MENU button. The menu screen will appear. Camera Function Program AE: White Balance: EIS: Dig. Zoom: MIC. Filter: 16:9: ENTER RETURN Setup Auto Auto On 40x Off Off 5 Tilt the joystick to left or right to select the digit you want to set in sequence. Date Setup Date Mode Date Set 9/30/2004 8:00AM RAM 3 Use the joystick to choose "Date Setup" and then "Date Set". RAM ENTER RETURN Tilt the joystick up or down to select the number for current date/time, and then repeat step 5 to set the current date and time. Date Setup Note: To stop date/time setting midway, press the C button. 1/1/2004 12:00AM RAM Date Mode Date Set 6 After setting the current date and time, press the A button. The screen for verifying the set date will appear. Date Set 9/30/2004 8:00AM Date Setup? YES ENTER NO RAM ENTER RETURN 4 Tilt the joystick to right. Date Setup The figure for the month Date Mode Date Set 1/1/2004 will be selected. 12:00AM [The digit that is RAM ENTER RETURN highlighted first depends on the date display format (set up in Date Mode): The digit on the left end of the date display will be first highlighted.] Note: After setting the figure for the month, tilt the joystick to right to select the digit to be set.

If you press the A button after selecting the figure for the month, the screen for verifying the set date will appear instead of screen for setting day, year or time. 7 If the displayed date and time are correct, use the joystick to choose "YES", and then press the A button. The date and time will be set, and the DVD video camera/recorder will enter the recording pause status. Choosing "NO" will restore the menu screen. Note: This DVD video camera/recorder incorporates a rechargeable battery to store the date and time in memory. If this built-in battery is exhausted, the date and time will be reset. To prevent this, connect the AC adapter/charger to DVD video camera/recorder every 3 months, and leave them for at least 24 hours with the DVD video camera/recorder turned off: The built-in battery will be charged. 37 English CHANGING DISPLAY FORMAT OF DATE AND TIME You can select one of three date display formats: month/day/year, day/month/year or year/month/day. Associated with the selected date display, the time display format will also change as follows: Date display format M/D/Y D/M/Y Y/M/D Example of display 5:00PM 9/30/2004 17:00 30/9/2004 PM5:00 2004/9/30 1 Press the MENU button. The menu screen will appear.

3 Use the joystick to select the desired date display format, and then press the A button. Date Setup 2 Use the joystick to choose "Date Mode" on the "Date Setup" menu screen, and then press the A button. Date Mode Date Set D/M/Y Date Setup Date Mode Date Set M/D/Y D/M/Y Y/M/D RAM ENTER RETURN The menu screen for setting date will be restored, and the "Date Mode" has been changed as you designated. RAM ENTER RETURN The options will appear on the right of "Date Mode": The Z mark will be attached to the currently selected option. 4 Press the MENU button to switch off the menu screen.

Note: If the date display format has been changed, the display format during playback as well as during recording will also be changed (see page 52). English 38 Setting Up the Battery The DZ-BP14S battery provided with this DVD video camera/recorder has not been charged at purchase time: Charge it before using the DVD video camera/recorder.



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