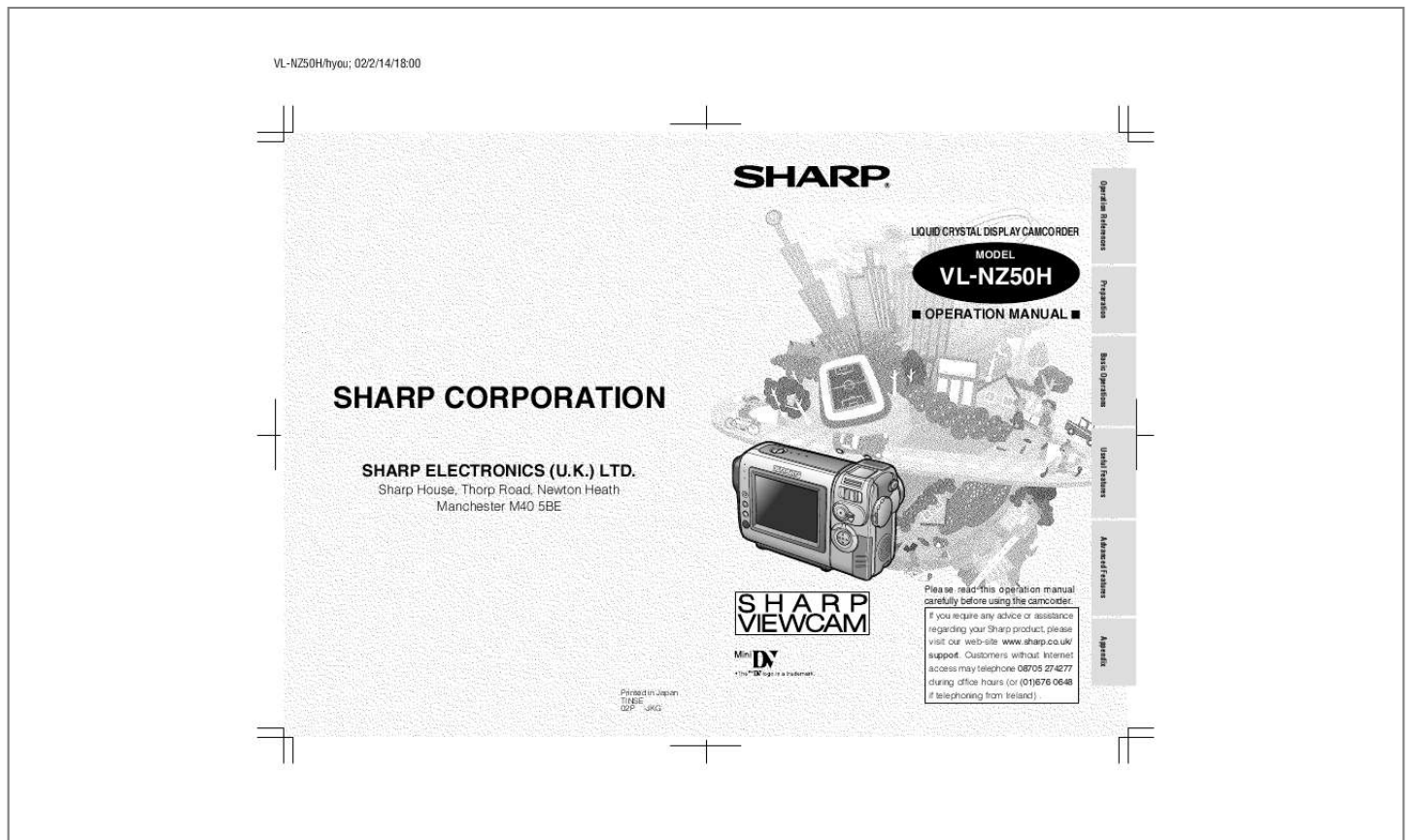




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You can read the recommendations in the user guide, the technical guide or the installation guide for SHARP VLNZ50. You'll find the answers to all your questions on the SHARP VLNZ50 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SHARP VLNZ50
User guide SHARP VLNZ50
Operating instructions SHARP VLNZ50
Instructions for use SHARP VLNZ50
Instruction manual SHARP VLNZ50



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Manual abstract:

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC. Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC. « Á,Í-Û<ÛÛ·ÚÁ ·iÛfi ÌÛ·ÓÍÖfiÁÛ·È ÛÛÛÛ ·ÈÛfiÚÁÈÛ ÛÛ ÓÁ,,ÈÛ ÚÁÚ EiÖ·fiÛ ÈÛÚÁÚ 89/336/EOK Í·È 73/23/EOK, Û ÓÈ Í·ìÒÈÛÛÛÛÛ ìÛÛÛÛ Û·íÁÓÈÁÍ·ì ·, ÛÁÌ ÓÁ,,fi. 93/68/ EOK. Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE. Este aparato satisfice las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE. Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC. Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/ 68/EEC. Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

WARNING CAUTION To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to a qualified dealer or service centre. Power supply: WARNING: THIS AC ADAPTER IS NOT FOR USE WITH TOYS. THIS AC ADAPTER IS FOR USE WITH SHARP CAMCORDER MODEL VL-NZ50H ONLY.

This unit can be operated by connecting it to either the AC adapter or battery pack. The AC adapter incorporates the AUTO VOLTAGE (AC 110240 V, 50/60 Hz) function. TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. This equipment should be used with the recommended AC adapter or battery pack. CAUTION To prevent electric shocks and fire hazards, do NOT use any other power source.

Important: Recording and playback of any material may require consent. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders. VL-NZ50H-***tobira1-2 1 02.2.15, 10:46 AM SPECIAL NOTE FOR USERS IN THE U.K.** The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked or and of the same rating as above, which is also indicated on the pin face of the plug, must be used. Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER: The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner. Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur. To fit an appropriate plug to the mains lead, follow the instructions below: IMPORTANT: The wires in the mains lead are coloured in accordance with the following code: Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: -- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black. -- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red. Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug. Before replacing the plug cover make sure that: -- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug. -- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires. IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN. NOTE: The LCD panel of this camcorder is a very high technology product with more than 120,000 thinfilm transistors*, giving you fine picture detail.

Occasionally, a pixel may appear on the screen as a fixed point of blue, green, red, or black. Please note that this does not affect the performance of your camcorder. *Specifications are subject to change without notice. VL-NZ50H-***tobira1-2 2 02.2.**

15, 10:46 AM Precautions · When the camcorder is not in use, remember to remove the cassette tape, turn off the power, and disconnect the camcorder from the power source. · Do not aim the lens at the sun. Do not allow direct sunlight to strike the camcorder lens or LCD monitor screen, whether or not recording is in progress, as it may damage the CCD sensor or LCD screen surface. Be particularly careful when recording outside. · When shooting in dark places, avoid sudden brightly lit objects or light sources, such as the sun.

Otherwise, the image may white out. Should this happen, point the lens in a different direction until the picture returns to normal. · Avoid magnetic sources.

Using the camcorder near strong fluorescent lights, motors, televisions, or other magnetic sources may adversely affect recorded images. · Using the camcorder near a broadcasting station or other powerful transmission source may cause buzzing or picture deterioration. · Avoid shocks and dropping. Do not drop or otherwise subject the camcorder to hard shocks or strong vibrations. Bumping or striking the unit during recording will generate noise in the recorded image. · Avoid placing the camcorder in close proximity to lighting equipment. The heat from incandescent lights may deform the camcorder, or cause it to malfunction.

· Always respect prohibitions or restrictions on the use of electronic equipment on commercial flights or in other sensitive areas. · Be aware of the temperature and humidity. You can use your camcorder at 0°C to 40°C, and at 30% to 80% relative humidity. Do not store the unit in an unventilated car in the summer, in direct sunlight, or near strong heat sources; this can result in severe damage to the unit casing and circuitry. · Avoid situations where water, sand, dust or other foreign matter could get on or inside the camcorder, and do not use or leave your camcorder in areas with excessive smoke, steam or moisture. Such environments can cause malfunctions or cause mildew to form on the lenses. Be sure to keep the unit in a wellventilated location.



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· Some small, portable tripods may be difficult to attach and may not be sturdy enough to support your camcorder. Be sure to use only a strong, stable tripod.
· When using your camcorder in a cold environment, the LCD monitor screen often appears less bright immediately after the power is turned on. This is not a malfunction. To prevent the camcorder from becoming too cold, wrap it in a thick cloth (a blanket, etc.). i VL-NZ50H-*i-viii 1 02.2.
15, 10:47 AM Dew Formation · What is "dew formation"? When cold water is poured into a glass, dew drops form on the glass. This clinging of water drops is called dew formation. · When dew forms in your camcorder. Dew will gradually form on the head drum of your camcorder and make the video tape stick to the head. This causes damage both to the head and the tape.

When dew forms, recording and playback may not function properly. Dew is likely to form in the following circumstances: --When moving the camcorder from a cold place to a warm place. --When placing the camcorder in a cold room which is then heated rapidly. --When moving the camcorder outdoors from an air conditioned room or car. --When placing the camcorder in the direct path of air blowing from an air conditioner. --When placing the camcorder in a humid room. · How to prevent trouble. When using the camcorder in a place where dew is likely to form, allow the camcorder and the video tape to acclimatise to the surroundings for about one hour. For example, when bringing the camcorder indoors after skiing, place it in a plastic bag. · "Dew" warning feature If dew forms, the word "DEW" flashes on the screen, and the power will automatically turn off in approximately 10 seconds.

If "DEW" flashes, remove the cassette, leave the cassette compartment open, and wait for a few hours to allow the camcorder to acclimatise to the surrounding temperature. 2To use the camcorder again, turn on the power after waiting for a few hours. Be sure that "DEW" has disappeared. 3Do not insert a cassette while "DEW" is flashing; this may result in damage to the tape. 4Since dew forms gradually, it may take 10 to 15 minutes before the dew warning feature engages. ::: ; ; ::; ; ; ; Plastic bag 1Be sure to tightly seal the plastic bag containing the camcorder. 2Remove the bag when the air temperature inside it reaches the temperature of the room. ii VL-NZ50H-*i-viii 2 02.2.15, 10:47 AM Precautions Dirty Video Heads When the video heads have become clogged with dirt (dust and tape coating particles), Striped noise Mosaic noise Using a Cleaning Tape (Commercially Available) You can clean the video head with a commercially available cleaning tape.

Notes: · Excessive use of the cleaning tape may cause damage to the video heads. Please read the instructions accompanying the cleaning tape carefully before using it. · The fast forward and rewind functions cannot be used when the cleaning tape is in the camcorder. · If the video heads again become clogged with dirt soon after cleaning, this might be caused by a damaged tape. In this case, stop using that cassette immediately.

· mosaic-like noise appears on the playback picture. (see above illustration) · playback pictures do not move. · during playback, the whole screen becomes blue. Causes of video head clogging · High-temperature and high-humidity environment · A lot of dust in the air · Damaged tape · Worn tape · Long-time use · Dew formation 1 2 3 Insert a cleaning tape into the camcorder. Set the camcorder to VCR mode.

· The video head cleaning screen appears. Press the SET button to begin video head cleaning. · "NOW CLEANING" flashes during cleaning. C L E A N I N G N O W C L E A N I N G S T A R T S T O P If the video heads become clogged, the v indicator appears on the screen. Contact your SHARP dealer for further advice or refer to page 55 "Before Requesting Service". · After about 20 seconds, video head cleaning automatically finishes, and "EJECT THE CASSETTE." displays. 4 Remove the cleaning tape. To cancel cleaning, press the SET button. iii VL-NZ50H-*i-viii 3 02.

2.15, 10:47 AM DV Technology Digital video (DV) is a revolutionary technology that enables recording and playback of high quality images with the use of special digital features previously unavailable with conventional analog formats. Note: · This camcorder reproduces the highest picture quality when us.....

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.... 23 24 25 26 27 28 28 vii VL-NZ50H-*i-viii 7 02.2.15, 10:48 AM Operation References Useful Features Still Recording

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Digital Image Stabilization (DIS)

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Recording in LP (Long Play Recording) Mode

.. *Selecting the 16-bit Audio Recording Mode*

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... *Playback Using the Remote Control (Not supplied)* ..
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..... *Displaying the Date and Time of Recording* ..
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References Part Names For details on the use of each part, refer to the page number indicated in brackets.
Front view Stereo microphone Zoom lens DC input jack [pp. 8, 9] Cassette holder [p. 10] Lithium battery compartment door [p. 11] Cassette compartment
door [p. 10] Cassette compartment door release [p.
10] 1 VL-NZ50H-001-006 1 02.2.15, 10:48 AM Operation References Rear view Power Zoom Wide angle/ Telephoto control [p. 17]/ VOLUME control [p. 19]
DV terminal [p. 44] GUIDE ON/OFF switch [p. 23] AV jack [pp. 21, 43] Operation button Jack cover [pp. 21, 43, 44] LCD monitor 2 VL-NZ50H-001-006 2
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15, 10:48 AM Operation References Operation References Rear view RECORD START/STOP button [p. 16] GAMMA/ BRIGHTER button [pp. 25, 26, 35]
FADE button [p. 27] SET button [p. 22] STILL button [p. 29] Power switch (CAMERA/VCR select switch) [pp. 16, 19] Speaker MENU button [pp. 5, 22]
MANUAL button [p. 5] Bottom view Battery release [p. 7] Wrist strap loop [p.
13] Tripod adapter socket [p. 29] 3 Battery mounting surface [p. 7] VL-NZ50H-001-006 3 02.



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2.15, 10:48 AM Operation References On-screen Display Index For details on the use of each function, refer to the page number indicated.
CAMERA mode SETTING 1 P I C . E F F E C T S C E N E M E N U Q K . R E T U R N R E T U R N S E T T I N G 2 D G T L Z O O M T A P E S P E E D D I S 1 6 :
9 A U D I O M O D E R E T U R N O T H E R S B E E P T I M E C O D E T C O U T D E M O M O D E R E T U R N p. 30 p. 18 p.
16 p. 18 3 0 min p. 40 p. 41 p. 28 p. 24 p. 32 p. 30 p. 30 p. 33 p.

49 p. 42 p. 42 p. 54 LCD SETBACK LIGHT LCD BRIGHT LCD COLOR RETURN p. 48 pp. 16, 39 AUTO CLOCK SET DISPLAY SETTING
12H / 24H RETURN p. 35 p. 12 p. 13 SETTING 1 P I C . E F F E C T S C E N E M E N U Q K .
RETURN RETURN VCR mode p. 18 PLAYBACK SET P I C . E F F E C T A U D I O D U B A U D I O R E T U R N O T H E R S R E M O T E B E E P T I M E
C O D E T C O U T R E T U R N P L A Y B A C K S E T P I C . E F F E C T A U D I O D U B A U D I O R E T U R N A U D I O 1 + 2 D p. 36 p.
46 p. 47 LCD SETBACK LIGHT LCD BRIGHT LCD COLOR RETURN CLOCK SET DISPLAY RETURN p. 48 p. 47 p. 34 p.
49 p. 42 p. 42 p. 35 Note: · See page 22 for procedures on how to display the desired screen. 4 VL-NZ50H-001-006 4 02.2.15, 10:48 AM Operation
References Operation References Manual screens Each time you press the MANUAL button, the screen changes as shown below. AUTO MAN . F O C U S
AUTO Focus setting screen (p. 37) Exposure setting screen (p.

38) White balance screen (p. 39) Normal screen AUTO EXPOSURE AUTO MANUAL button AUTO WHITE BAL . AUTO AUTO 3 0 min On-screen
indicators on/off Each time you press the MENU button, the screen changes as shown below. · The example screens shown are for CAMERA mode. Indicators
on MENU button AUTO 3 0 min Menu screen SETTING 1 P I C . E F F E C T S C E N E M E N U Q K . R E T U R N R E T U R N Indicators off 5 VL-
NZ50H-001-006 5 02.2.15, 10:48 AM Operation References Warning Indicators If a warning indicator appears on the screen, follow the specified
instructions. Displayed for the first 3 seconds Displayed after 3 seconds Description of warning I N S E R T A C A S S E T T E .

E J E C T T H E C A S S E T T E . C A S S E T T E N O T R E C O R D A B L E . T H E T A P E E N D S S O O N . C H A N G E T H E C A S S E T T E . B A T T E R Y I S T O O L O W .
E J E C T T H E C A S S E T T E . P R O T E C T . T A B There is no video cassette in the camcorder. Insert a cassette (see page 10). The video cassette is
defective and should be removed (see page 10).

The erasure protect tab on the video cassette has been slid to the record-protect position, preventing recording (see page 51). The tape is about to end.
Prepare a new cassette (see page 10). The tape has reached the end. Replace it with a new cassette (see page 10). The battery is almost depleted. Replace it
with a fully charged battery pack (see page 7). Dew has formed inside the camcorder. Wait a few hours for the dew to dry away (see page ii). About 10
seconds after this warning appears, the camcorder automatically turns off.

The video heads are clogged and should be cleaned (see page iii). The fluorescent lamp behind the LCD monitor is close to the end of its service life. Call
your local authorized Sharp dealer to have it replaced. T A P E E N D T A P E E N D D E W D E W L A M P Note: · N indicates a flashing display. L A M P 6 VL-
NZ50H-001-006 6 02.2.15, 10:49 AM Preparation Preparation Attaching and Removing the Battery Pack Attaching Power switch Removing 1 2 Make sure
that the Power switch is set to OFF. Rotate the monitor section of the camcorder (1), then press the battery release (2). Slide the battery pack in the direction
of the arrow and take it out (3). Preparation 1 Make sure that the Power switch is set to OFF.

Battery release 2 Align the = mark on the side of the battery pack with the = mark on the camcorder (1), and slide the battery pack in the direction of the
arrow completely until it locks into place (2). Cautions: · BEFORE REMOVING THE BATTERY PACK, ALWAYS STOP RECORDING OR PLAYBACK AND
TURN THE POWER OFF. Removing the battery pack while shooting or during playback may damage the tape by causing it to wrap around the video head
drum. · Remove the battery pack from the camcorder if you will not use the camcorder for a long period of time. · Make sure that the battery pack is firmly
attached during operation.

If it is not, the battery pack may come off or camcorder operation may fall because of the poor contact pressure. · To prevent damage to the battery pack when
removing, be sure to firmly hold the battery pack while pressing the release. · Use only SHARP model BT-L225 or BT-L445 battery packs with this
camcorder. Use of other batteries may create a risk of fire or explosion. 7 VL-NZ50H-007-015 7 02.

2.15, 10:49 AM Charging the Battery Pack 1 2 Attach the battery pack on the camcorder, and make sure that the Power switch is set to OFF. Connect the
supplied power cord to the AC power socket on the AC adapter, and insert the AC plug into a power outlet. AC power socket Charging time and maximum
continuous recording and playback times Battery pack Charging Max. continuous Max. continuous time recording time playback time approx. 2hr. approx.
3hr. 30min.

approx. 1hr. 30min. approx. 3hr. approx. 1hr. 30min. approx. 3hr.

BT-L225 BT-L445 Preparation To power outlet 3 Insert the DC plug into the DC input jack. · The charge indicator lights up. DC input jack Notes: · Charge
the battery pack between 10°C and 30°C. The battery pack may not charge properly at temperatures too low or too high. · The battery pack and charger
become warm during charging.

This is not a malfunction. · Using the zoom (see page 17) and other functions or turning the power on and off frequently will increase power consumption.

This may result in a decrease in the actual recording time compared to the maximum continuous recording time listed above. · The charging time and
recording time may vary depending on the ambient temperature and the condition of the battery pack. · See page 52 for more information on using the battery
pack.

Caution: · Charge only SHARP model BT-L225 or BT-L445 battery packs. Other types of battery packs may burst, causing personal injury and damage.
Charge indicator Extending battery pack life Even when the battery pack is not used, the capacity of the battery pack will naturally deteriorate over time. To
limit the deterioration of the capacity, it is recommended to perform the following procedure at least once every six months: 1Fully charge the battery pack.
2Attach the battery pack to the camcorder, and set the Power switch to CAMERA without inserting a cassette. Allow the battery power to fully discharge by
leaving it on the camcorder until the camcorder power automatically turns off. 3Remove the battery pack and store it between 10°C and 20°C.



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· The charge indicator turns off when the battery is charged. 4 Remove the DC plug from the DC input jack, then remove the AC plug from the power outlet.
8 VL-NZ50H-007-015 8 02.

2.15, 10:49 AM Preparation Powering the Camcorder from an AC Outlet You can also power the camcorder from a power outlet by using the supplied AC adapter. Note: · When using the AC adapter to power the camcorder, the battery pack is not charged. Cautions: · BEFORE REMOVING THE DC PLUG, ALWAYS STOP RECORDING OR PLAYBACK AND TURN THE POWER OFF. Removing the DC plug while shooting or during playback may damage the tape by causing it to wrap around the video head drum. · Disconnect the camcorder from the AC adapter if you will not use the camcorder for a long period of time. Preparation Caution: · The supplied AC adapter is specially designed for use with this camcorder, and should not be used as a power supply for other camcorders. 1 2 Make sure that the Power switch is set to OFF. Connect the supplied power cord to the AC power socket on the AC adapter, and insert the AC plug into a power outlet. AC power socket To power outlet 3 Insert the DC plug into the DC input jack.

· The camcorder is supplied power. DC input jack 4 Hold down the Lock button and set the Power switch to CAMERA or VCR. Lock button 9 VL-NZ50H-007-015 9 02.2.15, 10:49 AM Inserting and Removing a Cassette Inserting 4 Wait for the cassette holder to fully retract. Close the compartment door by pressing the centre until it clicks into place. 1 Attach the power source to the camcorder, then slide the cassette compartment door release and open the cassette compartment door. · After confirmation sound, the cassette holder extends and opens automatically. Cassette compartment door release Preparation Removing Perform step 1 above, then take out the cassette. Cautions: · Do not try to close the cassette compartment door while the cassette holder is extending or retracting.

· Be careful not to get your fingers caught in the cassette holder. · Do not apply force to the cassette holder except when pressing the W mark to close it. · Do not tilt the camcorder or hold it upside down when you are inserting or removing a cassette. It may damage the tape. · Remove the cassette if you will not use the camcorder for a long period of time. · If you do not correctly close the cassette holder in step 3, the cassette protection mechanism of the camcorder might eject the cassette. If this happens, repeat the insertion procedure. · Do not attempt to pick up the camcorder by the cassette compartment door. Notes: · If the battery power is too low, you may not be able to eject the cassette. Replace the battery pack with a fully charged one.

· See page 51 for more information on the video cassette tapes intended for use with this camcorder. 2 Insert a commercially available cassette fully with the window facing outwards, and with the erasure protect tab facing upwards. Erasure protect tab 3 Press the W mark gently until the cassette holder clicks into place. · After confirmation sound, the cassette holder retracts automatically. "W" mark VL-NZ50H-007-015 REC SAVE 10 10 02.2.15, 10:49 AM Preparation Installing the Lithium Battery Installing The supplied lithium battery is used to store the memory of the date and time settings. Removing Perform steps 1 and 2 above, then lift out the battery from the battery holder. Preparation 1 Slide the cassette compartment door release and open the cassette compartment door.

Note: · The cassette holder will extend and open when the camcorder is connected to a power source.

Be sure to close the cassette holder before proceeding to the next step (see page 10). Notes on the Use of the Lithium battery CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type CR2025 recommended by the equipment manufacturer. X KEEP THIS BATTERY AWAY FROM CHILDREN. IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY FOR EMERGENCY TREATMENT. Z BATTERY MAY EXPLODE IF MIS-USED OR INSTALLED WITH POLARITY REVERSED. DO NOT RECHARGE, DISASSEMBLE OR DISPOSE OF IN FIRE. · Do not short-circuit, recharge, disassemble, or heat the lithium battery. · Should the lithium battery leak, wipe the battery compartment clean, and then insert a new battery. · The lithium battery will last about one year under normal usage.

2 Pull out the lithium battery holder using a pointed object such as the tip of a ballpoint pen. Lithium battery holder 3 Insert the lithium "m" mark battery into the battery holder with the H side of the battery facing the m side of the holder. Push the battery holder back into position. Press the W mark gently, then close the cassette compartment door by pressing the centre until it clicks into place. 4 11 VL-NZ50H-007-015 11 02.2.15, 10:50 AM Setting the Date and Time Example: Setting the date to 2 June 2003 (2. 6. 2003) and the time to 10:30 am (10:30). Power switch 4 Press l or m to select "2" (day), then press the SET button.

SE T T I N G 2. 1 . 2 0 0 2 0 : 00 5 Press l or m to select "6" (month), then press the SET button. SE T T I N G SET button 2. 6 . 2 0 0 2 0 : 00 Preparation 6 MENU button Operation button Note: · Before performing the steps below, make sure that the lithium battery has been installed (see page 11). Press l or m to select "2003" (year), then press the SET button. SE T T I N G 2. 6 . 2 0 0 3 0 : 00 7 Press l or m to select "10" (hour), then press the SET button. SE T T I N G 1 Hold down the Lock button and set the Power switch to CAMERA. Lock button 2. 6 . 2 0 0 3 10 : 00 8 Press l or m to select "30" (minute), then press the SET button. · The internal clock now starts operating.

2 Press the MENU button until the menu screen appears. SE T T I N G 2. 6 . 2 0 0 3 10 : 30 9 CLOCK SE T D I S P L A Y SE T T I N G 12H / 24H R E T U R N 1 . 1 .

2002 0 : 00 Press the MENU button to turn off the menu screen. Note: · If the date and time have been set, the SETTING 1 screen (T) appears in step 2. Select "SETTING" in the CLOCK SET screen (P) using the Operation button and SET button. 3 Press the SET button. 12 VL-NZ50H-007-015 12 02.2.15, 10:50 AM Preparation Changing to the 12-hour Time Mode Attaching the Lens Hood When recording outdoors on a sunny day or in a location with bright lighting, attach the supplied lens hood to the camcorder. Turn the lens hood in the direction of the arrow to attach it. 1 After performing step 8 above, press l or m to select "12H/24H", then press the SET button. CLOCK SE T D I S P L A Y SE T T I N G 12H / 24H R E T U R N Preparation 2 4H 1 2H 2 Press l or m to select "12H", then press the SET button.



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1 2 H 2 4H 1 2H To remove it, turn it in the opposite direction. Notes: · The lens cap can still be attached on top of the lens hood. · Filters and other accessories cannot be attached on the top of the lens hood. 3 Press the MENU button to turn off the menu screen. Notes: · The date and time, once set, are internally recorded even when not displayed on the screen. · The menu screen automatically turns off if no settings are made within five minutes. Attaching the Wrist Strap Attach the wrist strap to the wrist strap loop as shown below. Wrist strap loop Caution: · Do not swing the camcorder by the strap. 13 VL-NZ50H-007-015 13 02.2.

15, 10:50 AM Using the Lens Cap Attach the strap to the lens cap as shown below. Always attach the lens cap over the lens when not using the camcorder. Preparation Attach the strap of the lens cap to the wrist strap as shown below. When recording, hang the lens cap on the wrist strap to keep the cap out of the way. 14 VL-NZ50H-007-015 14 02.

2.15, 10:50 AM Preparation Tips on Recording Positions To create images that are easy to watch during playback, try to record with an upright posture and steady hand to prevent a shaky image. Holding the camcorder Preparation Place your right thumb close to the REC START/STOP button and Power Zoom control. Place your left thumb on the thumb rest on the left side of the screen. Basic posture Shooting from a high angle Turn the LCD monitor so that the screen faces downward.

Take care not to cover the lens or microphone with your finger. Place your elbows against your sides. Shooting from a low angle Balance your weight on both legs. Turn the LCD monitor so that the screen faces upward. 15 VL-NZ50H-007-015 15 02.2.15, 10:50 AM Basic Operations Camera Recording Easy Camera Recording in Full Auto Mode · Before you start recording, perform the operations described on pages 7 through 15 to prepare your camcorder for recording. REC START/STOP button Power switch To pause recording Press the REC START/STOP button again. Recording pauses, and the camcorder enters Recording Standby mode. PAUSE To turn the power off Set the Power switch to OFF without pressing the Lock button.

Notes: · Battery power is consumed in Recording Standby mode. Turn off the power if you will not be recording again soon. · If the camcorder remains in Recording Standby mode for more than 5 minutes, the power will automatically turn off to save battery power and to protect the tape from being damaged. To resume recording, set the Power switch to OFF and then back to CAMERA. (The camcorder will make a confirmation sound when it is left in Recording Standby mode for about 4 minutes.) Basic Operations 1 2 Remove the lens cap. Hold down the Lock button and set the Power switch to CAMERA. · The picture from the lens now displays. · The camcorder is now ready to record (Recording Standby mode). Maximum continuous recording and actual recording times Lock button AU T O Battery pack BT-L225 BT-L445 Max. continuous recording time approx. 1hr. 30min. approx. 3hr. Actual recording time approx. 50min. approx. 1hr. 40min.

Note: · If "AUTO" is not displayed at this time, set the camcorder to Full Auto mode (see page 39). 3 Press the REC START/STOP button to begin recording. REC Note: · Using the zoom (see page 17) and other functions or turning the power on and off frequently will increase power consumption. This may result in a decrease in the actual recording time compared to the maximum continuous recording time listed above. 16 VL-NZ50H-016-021 16 02.2.15, 10:51 AM Basic Operations Camera Recording Zooming Zooming allows you to move visually closer to or farther from a subject without physically changing your position. When using the optical zoom, you can enlarge the subject up to 10K. Zooming in (when you want to centre attention on the subject) Wide angle Zooming out (when you want to include the surroundings) Auto Focus The camcorder is preset to Auto Focus mode, which is designed to focus on most types of subjects. In Auto Focus mode, the camcorder automatically focuses on the subject in the centre of the scene.

Always keep the subject in the centre of the scene. Basic Operations Notes: · If no subject is in the centre of the scene, the focus area will expand and the subject nearest the centre will be focused on. photo · If no subject is displayed, the camcorder will automatically zoom out until a subject comes into the frame. · Auto Focus may not work in the situations described on page 37. In these situations, use the manual focus function. Zooming in Push the Power Zoom control to the T (telephoto) side to get a close-up view (1). Macro Shots This camcorder lets you shoot close-up images of small objects such as flowers and insects, or make title frames for your videos. When you want to record a magnified image of a subject which is within approximately 1.5 m of the camcorder, do not zoom in on it. Instead, zoom out all the way by pushing the Power Zoom control to the W side, and then move the camcorder closer to the subject until you obtain the desired angle of view.

The camcorder will automatically focus on the subject when the lens is set for the widest angle. Power Zoom control Zooming out Push the Power Zoom control to the W (wide angle) side to get a wide field of view (2). Power Zoom control Zoom range indicator W T Z OOM 3 · The zoom range indicator shows you the current zoom setting. · The zoom speed depends on how far you push the Power Zoom control. Notes: · The camcorder is unable to focus when zooming in on subjects within 1.

5 m. The camcorder will automatically zoom out until it is able to focus on the subject. · See page 24 for how to use the digital zoom. Note: · When you are recording a macro shot, be sure that the subject receives sufficient illumination. 17 VL-NZ50H-016-021 17 02.

2.15, 10:51 AM Remaining Recording Time Display When the camcorder is recording, an onscreen indicator displays the approximate remaining tape time in minutes. Remaining Battery Power Display When using the camcorder with the battery pack as the power source, the remaining battery power indicator is displayed. If the battery power becomes very low, a warning indicator appears. Replace the battery pack. Basic Operations 3 0 min Remaining recording time indicator (Green) (Green) Remaining battery power indicator (Red) B A T T E R Y I S T O O L O W. Notes: · The remaining recording time indicator appears when the on-screen indicators are turned on. · The remaining recording time indicator appears 10 seconds after pressing the REC START/STOP button to begin recording. · The remaining recording time indicator only shows the approximate time left.



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Also, it varies slightly depending on the length of tape used.

(This function is based on the DVM60 tape standard.) Warning indicator When the remaining recording time reaches 1 minute, a warning indicator will appear. Prepare a new cassette. Warning indicator T H E T A P E N D S S O O N . Approx. remaining time Less than 1 min. T A P E E N D Notes: · The remaining battery power indicator appears when the on-screen indicators are turned on. · Use the remaining battery power indicator only as an approximate indication. · The remaining battery power indicator may change to either a higher or lower level if you set the Power switch to OFF and then back to CAMERA or VCR. · In cold environments, the red remaining battery power indicator may appear sooner.

· Use of the zoom functions when the warning indicator is displayed may cause the camcorder to suddenly lose power. CHANGE THE CAS SE T T E . T A P E E N D The tape has reached the end. 18 VL-NZ50H-016-021 18 02.2.

15, 10:51 AM Basic Operations Basic Operations Camera Recording Playback Playback The LCD monitor screen functions as a handy playback monitor. Nothing needs to be connected, allowing instant on-screen playback with the sound through the built-in speaker. Power switch To stop playback Press l. To turn the power off Set the Power switch to OFF without pressing the Lock button. Note: · The tape is automatically rewound when playback reaches the end of the tape.

Basic Operations Operation button Volume Control When the camcorder is in VCR mode, push the Volume control to the L or + side to increase (1) or decrease (2) the volume. The volume level indicator will appear on the LCD screen during adjustment only. Once the Volume control is released, the volume level indicator will disappear shortly afterwards. 1 Hold down the Lock button and set the Power switch to VCR. Lock button 2 Press j (or k) on the Operation button to rewind (or fast forward) the tape to the desired point. Volume control 3 Press m to begin playback. VOLUME Decrease Increase Speaker 19 VL-NZ50H-016-021 19 02.2.15, 10:51 AM Video Search The video search function makes it easy to search for a desired scene on the tape. Still The still function allows you to pause playback.

During playback, press m on the Operation button. Searching for a Scene Near the Current Tape Position 1 During playback, press k (or j) on the Operation button. · The playback picture fast forwards (or reverses). To return to normal playback, press m again. Notes: · The sound is off in Still mode. · To protect the tape, the camcorder automatically returns to normal playback if it is left in Still mode for more than 5 minutes. Basic Operations 2 When you find the scene, press m to return to normal playback. Searching for a Scene Far from the Current Tape Position 1 During fast forward (or rewind), press and hold k (or j) on the Operation button. · The fast forward (or rewind) picture displays. 2 If the scene is still rather far from the current tape position, release the Operation button to normal fast forward (or rewind).

Repeat steps 1 and 2 above until you find the scene. Press m to begin normal playback. 3 4 Notes: · The sound is off during search. · You may experience picture noise during search. This is not a malfunction.

20 VL-NZ50H-016-021 20 02.2.15, 10:51 AM Basic Operations Playback Watching Playback on a TV You can connect the camcorder to a TV to allow a larger audience to enjoy playback. Caution: · Check that the camcorder, TV, VCR and other equipment to be used are turned off before making any connections. Picture noise or malfunction may occur if any of the above is left on while making a connection.

1 Open the jack cover on the camcorder (see page 2). 3 Turn on the TV and set it to the "AV" or "VIDEO" channel. (See the operation manual of your TV.) · When connecting to a TV via a VCR, turn on the VCR and set it to the "AV" or "LINE" input channel. Operate the TV as you normally do to view the signal from the VCR. (See the operation manuals of your TV and VCR.) Basic Operations 4 Jack cover Set the Power switch on the camcorder to VCR, and begin playback (see page 19). 2 Connect the camcorder to your TV (or VCR) with the supplied audio/video cable, as shown. Notes: · If your TV or VCR has a 21-pin Euro-SCART connector, use the RCA/21-pin Euro-SCART conversion connector (QSOZ0033TAZZ) available from our main parts distributor detailed on page 55. 21-pin Euro-SCART on TV or VCR CHANNEL PAUSE /STILL PLAY STOP/ EJECT POWER TV/VCR SET UP REC 0 Yellow: To video input jack White: To audio input (L) jack Red: To audio input (R) jack VIDEO AUDIO (L/MONO) AUDIO (R) RCA/21-pin Euro-SCART conversion connector (QSOZ0033TAZZ) Audio R Audio L Video Audio/video cable (supplied) · If your TV or VCR has only one audio input jack, use the white plug for the audio connection on the TV or VCR.

· Close the jack cover after use. To AV jack : The arrow shows the signal flow. 21 VL-NZ50H-016-021 21 02.2.15, 10:51 AM Useful Features Using the Menu Screens Use the menu screens to adjust the various camcorder settings. Power switch 3 Press l or m on the Operation button to select the desired menu screen (Y), then press the SET button. Example S E T T I N G 2 D G T L Z O O M O F F T A P E S P E E D D I S 1 6 : 9 A U D I O M O D E R E T U R N SET button · You can press k, instead of the SET button. MENU button Operation button 4 Press l or m to select the desired menu item (DGTL ZOOM), then press the SET button. Example S E T T I N G 2 D G T L Z O O M O F F T A P E S P E E D 4 0 D I S 3 0 0 1 6 : 9 A U D I O M O D E R E T U R N 1 Set to the desired camcorder mode (CAMERA or VCR). · See page 4 for the menu items you can select in each camcorder mode.

Lock button Useful Features · Steps 2 to 5 show how to change the DGTL ZOOM menu setting in CAMERA mode. · You can press k, instead of the SET button. 2 Press the MENU button until the menu screen appears. Example S E T T I N G 1 P I C . E F F E C T S C E N E M E N U Q K . R E T U R N R E T U R N 5 Press l or m to select the desired menu setting, then press the SET button. DG T L Z O O M 4 0 · You can press k, instead of the SET button. · To adjust another menu item, press l or m to select "RETURN" and press the SET button, then perform steps 3 to 5. To turn off the menu screen Note: · The menu screen does not appear during recording. Press the MENU button.

Notes: · Certain menu items are common to all camcorder modes. If the BEEP menu item, for example, is set to "OFF" in CAMERA mode, it will be automatically set to "OFF" in VCR mode.



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· The menu screen automatically turns off if no settings are made within five minutes. · Items that are not selectable are greyed out. 22 VL-NZ50H-022-026 22
 02.2.15, 10:52 AM Useful Features Useful features Camera Recording Camera Recording Displaying the Recording Guide This function helps you decide on
 the size of the subject occupying the screen. Select one of five recording guides. Turning on the recording guide Set the GUIDE ON/OFF switch to ON.
 Selecting the recording guide Press l or m on the Operation button.

Types Cross: A cross mark at the centre of the screen for placing the subject at the centre. To turn off the recording guide Set the GUIDE ON/OFF switch to
 OFF. Note: · When using manual focus, you cannot change the recording guide. Focus: Focus brackets for guiding you to the focus area. Useful Features
 Landscape: Grid lines dividing the screen into 9 areas to help you with the horizontal and vertical composition. Snapshot: For capturing a small group of
 friends in a frame with surrounding background. Portrait: Green frame fitting a full-body view and yellow frame fitting an upper-body view. 23 VL-
 NZ50H-022-026 23 02.2.15, 10:52 AM Setting the Digital Zoom You can select three different zoom ranges: 1 10K (optical zoom), 1040K (digital zoom) or 10-
 300K (digital zoom).

The digital zoom allows you to record powerful close-up pictures with the same operation as normal zooming. Notes: · The digital zoom is in addition to the
 optical zoom giving a combined maximum zoom range of 1300K. · As the image is enlarged digitally, the picture quality decreases when higher digital zoom
 settings are used. The "D" digital zoom indicator is displayed during digital zooming. 1 2 3 In CAMERA mode, press the MENU button until the menu screen
 appears.

@@ Press l or m to select "DGTL ZOOM", then press the SET button. S E T T I N G 2 D G T L Z O O M O F F T A P E S P E E D 4 0 D I S 3 0 0 1 6 : 9 A U D I O
 M O D E R E T U R N W T D - Z O O M 2 5 Digital zoom indicator To use optical zoom only Select "OFF" in step 4 above. Useful Features 4 Press l or m to
 select "40" or "300", then press the SET button. D G T L Z O O M 4 0 5 Press the MENU button to turn off the menu screen. 24 VL-NZ50H-022-026 24 02.
 2.15, 10:52 AM Useful features Camera Recording Gamma Brightness Compensation When the subject is backlit, the image will appear dark if it is recorded
 normally. The gamma brightness compensation function improves the picture by increasing the brightness of the subject while leaving the brighter portion of
 the image unaffected. To obtain a brighter picture Press the GAMMA/BRIGHTER button again. · The x indicator appears. GAMMA AU T O 3 0 min Note: ·
 When the x indicator is displayed, the background will become slightly brighter. To cancel Gamma Brightness Compensation GAMMA/BRIGHTER button
 Press the GAMMA/BRIGHTER button until "GAMMA" disappears. In CAMERA mode, press the GAMMA/ BRIGHTER button once.

@@ Press l or m to select "QK. @@ E F F E C T S C E N E M E N U S T A R T Q K .

@@ Press l or m to select "DIS", then press the SET button. S E T T I N G 2 D G T L Z O O M T A P E S P E E D O N D I S O F
 F 1 6 : 9 A U D I O M O D E R E T U R N 1 2 3 In CAMERA mode, press the MENU button until the menu screen appears. @@ Press l or m to select "16:9",
 then press the SET button. S E T T I N G 2 D G T L Z O O M T A P E S P E E D D I S O F F 1 6 : 9 A U D I O M O D E O N R E T U R N 3 4 Press l or m to select
 "ON", then press the SET button. Useful Features DIS ON 5 4 Press l or m to select "ON", then press the SET button. · The picture is displayed with the top
 and bottom portions masked. Press the MENU button to turn off the menu screen. · The DIS indicator only appears when the on-screen indicators are turned
 on. 16 : 9 ON To cancel DIS function DIS indicator 5 Press the MENU button to turn off the menu screen. To return to normal screen Select "OFF" in step 4
 above.

Select "OFF" in step 4 above. The z indicator will disappear. Notes: · The DIS function cannot compensate for excessive image shaking. · When image
 shaking does not occur (e.g.

when using the camcorder on a tripod), turn off the DIS function. The picture will appear more natural when the DIS function is off. 30 VL-NZ50H-027-033
 30 02.2.15, 10:53 AM Useful Features Camera Recording Self Recording Rotate the LCD monitor 180° vertically so that the screen faces the other way and
 the subject can monitor the shot while you are recording.

If the camcorder is steadied, you can record yourself in the scene by watching yourself on the LCD monitor. Cautions: · Do not rotate the monitor section to
 the self recording position during recording or playback. · For recording in Self Recording mode, be sure to rotate the monitor section, NOT the lens section.
 If you hold the camcorder upside down with the lens at the bottom, the subject will be recorded upside down. More Information on Self Recording · The
 screen image automatically inverts when the monitor rotation is between 135° and 200°. When the monitor section is turned back to the normal position, the
 image returns to normal. · You can play back images while the monitor is in the self recording position. Set the camcorder to VCR mode. The Operation
 button still retains its function as during normal playback, for example, m on the Operation button works as the Play button. Useful Features 1 2 Set the
 Power switch to CAMERA.

Rotate the monitor section 180° vertically. · A mirror image of the subject displays on the LCD monitor. 3 Press the REC START/STOP button to begin
 recording. 31 VL-NZ50H-027-033 31 02.2.15, 10:53 AM Recording in LP (Long Play Recording) Mode This camcorder allows you to record in LP (Long
 Play Recording) mode for approximately 50% more recording time with the same picture quality as that in SP (Standard Play Recording) mode. Notes on the
 use of LP mode · To record in LP mode, be sure to use a Mini DV cassette labelled for use with LP mode. · Frozen images, mosaic-pattern picture noise,
 audio interruptions or audio loss may occur in the following cases: --When using a tape which is not designated for use with LP mode. --When a tape
 recorded in LP mode under high temperature conditions is played back. --When a tape recorded in LP mode with the camcorder is played back on a Mini DV
 player or camcorder from another manufacturer.

--When a tape recorded in LP mode is played back on a Mini DV player or camcorder without an LP function. · Audio dubbing is not possible with LP mode
 recording. 1 2 3 In CAMERA mode, press the MENU button until the menu screen appears.



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@@Press l or m to select "TAPE SPEED", then press the SET button. S E T T I N G 2 D G T L Z O O M T A P E S P E E D S P L P D I S 1 6 : 9 A U D I O M O D E R E T U R N 4 Press l or m to select "LP", then press the SET button.

Useful Features T A P E S P E E D L P 5 Press the MENU button to turn off the menu screen. · The long play recording mode indicator only appears when the on-screen indicators are turned on. A U T O L P 4 5 min Long play recording mode indicator To return to SP mode Select "SP" in step 4 above. 32 VL-NZ50H-027-033 32 02.2.

15, 10:53 AM Useful Features Camera Recording Selecting the 16-bit Audio Recording Mode The camcorder normally records audio in the 12-bit audio recording mode. For higher-quality audio recording, select the 16-bit audio recording mode. 1 2 3 In CAMERA mode, press the MENU button until the menu screen appears. @@Press l or m to select "AUDIO MODE", then press the SET button. S E T T I N G 2 D G T L Z O O M T A P E S P E E D D I S 1 6 : 9 A U D I O M O D E 1 2 bit 1 6 bit R E T U R N 4 Useful Features Press l or m to select "16bit", then press the SET button. A U D I O M O D E 1 6 bit 5 Press the MENU button to turn off the menu screen. · The 16-bit audio recording mode indicator only appears when the onscreen indicators are turned on. 1 6 bit 16-bit audio recording mode indicator To return to 12-bit audio recording mode Select "12bit" in step 4 above. Note: · When using Audio Dubbing with 16-bit audio recordings, both the dubbed and original sounds will be recorded in mono (see page 45). 33 VL-NZ50H-027-033 33 02.

2.15, 10:53 AM Useful Features Playback Using the Remote Control (Not supplied) The remote control (RRMCG0084TASA) is not supplied with this camcorder. Contact the nearest SHARP service center or your dealer for purchasing as a specified part. 4 Press l or m to select "ON", then press the SET button. R E M O T E O N 5 Press the MENU button to turn off the menu screen. Installing the Batteries Operating Aim the remote control at the remote sensor of the camcorder, and press the control buttons to operate. 1 2 Open the battery compartment cover. Insert the two commercially available AA (R6 or UM/SUM-3) batteries with the battery poles positioned as indicated. 1 2 Remote sensor 3 Place the cover. 5 Approximate operating range of remote control m Useful Features R E W button Activating R E C S T A R T / S T O P button Z O O M buttons (W/T) 1 2 3 In VCR mode, press the MENU button until the menu screen appears.

Press l or m on the operation button to select I, then press the SET button. Press l or m to select "REMOTE", then press the SET button. O T H E R S R E M O T E B E E P T I M E C O D E T C O U T R E T U R N F F button S L O W button P L A Y button O N O F F S T O P button V O L U M E + / L buttons P A U S E / S T I L L button Notes: · Do not use old and new batteries together or batteries of different brands together. · Be careful not to expose the remote sensor to direct sunlight or strong interior lighting, as this may prevent the remote control from operating properly. · Be sure that there are no obstacles between the remote control and the remote sensor.

34 VL-NZ50H-034-036 34 02.2.15, 10:55 AM Useful Features Playback Displaying the Date and Time of Recording Follow the procedure below to display the date, or both the date and time, of recording on the screen. You can display the date and time during both recording and playback. · The example screens shown are for CAMERA mode.

Gamma Playback The gamma playback function improves the playback picture in VCR mode by increasing the brightness of the subject while leaving the brighter portions of the image unaffected. 1 2 3 Press the MENU button until the menu screen appears. Press l or m on the operation button to select P, then press the SET button. Press l or m to select "DISPLAY", then press the SET button. C L O C K S E T D I S P L A Y S E T T I N G 1 2 H / 2 4 H R E T U R N G A M M A / B R I G H T E R button During playback, press the GAMMA/ BRIGHTER button once. · "GAMMA1" appears, and the picture becomes brighter. O F F D A T E D A T E + T I M E G A M M A 1 A U D I O 1 + 2 Useful Features 4 Press l or m to select "DATE" or "DATEHTIME", then press the SET button. D I S P L A Y D A T E + T I M E To obtain a brighter picture, press the GAMMA/ BRIGHTER button again. · "GAMMA2" appears. G A M M A 2 A U D I O 1 + 2 5 Press the MENU button until the date (or date and time) displays.

2. A U T O 6. 2003 10 : 30 3 0 min Notes: · The date (or date and time) appears when the on-screen indicators are turned on. · Before recording, make sure that the date and time have been correctly set. If they have not been set, the display will be left blank when playing back the recording. (The display will also be left blank for unrecorded or damaged portions of the tape.) · In VCR mode, the current date and time are displayed when the tape is not being played back. To cancel Gamma Playback Press the GAMMA/BRIGHTER button until "GAMMA1" and "GAMMA2" disappear. Note: · Gamma Playback has no effect during still playback. 35 VL-NZ50H-034-036 35 02.

2.15, 10:55 AM Picture Effect Playback These picture effects let you play back images with a more dramatic effect. 4 Press l or m to select the desired picture effect, then press the SET button. P I C . E F F E C T B W Types B/W: The picture is displayed in black-and-white.

SEPIA: The picture is displayed in sepia colour similar to that of an old photograph. SOLARI: The contrast of the subject is enhanced, creating a unique artistic image. NEGA: The blacks and whites of the image are reversed and colours of the image are inverted. BLUE: The picture is displayed with the effect of playback through a blue filter. 5 Press the MENU button to turn off the menu screen.

To cancel Picture Effect Playback Select "OFF" in step 4 above. Note: · Images in Picture Effect Playback mode cannot be transferred via DV cable to a personal computer. 1 2 3 During playback, press the MENU button until the menu screen appears. Press l or m on the operation button to select V, then press the SET button. Useful Features Press l or m to select "PIC. EFFECT", then press the SET button. P L A Y B A C K S E T P I C . E F F E C T A U D I O D U B A U D I O R E T U R N O F F B W S E P I A S O L A R I N E G A B L U E 36 VL-NZ50H-034-036 36 02.2.15, 10:55 AM Advanced Advanced Features Features Camera Recording Camera Recording Manual Focus Auto Focus may not be able to focus on the subject in the situations shown below.

In such situations, set the camcorder to Manual Focus mode and focus manually. 1 In CAMERA mode, press the MANUAL button until the focus setting screen appears.



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AUTO MAN . F O C U S AUTO 2 Subject is too dark. Lack of contrast, e.g. snow scene. Adjust the Power Zoom control to frame the subject as you desire. Press **m** or **l** to focus on the subject. **m**: To focus on a more distant subject **l**: To focus on a closer subject **3** Fast-moving subject. Background is too bright. **MF MAN . F O C U S MAN U A L 4** Subject has horizontal stripes. Subject is being shot through a dirty or wet window. Press the **MANUAL** button until the normal screen appears.

· "MF" appears. **MF 3 0 min** Light reflects off the subject. Two subjects at different distances overlap in the same scene. Manual focus indicator To return to Auto Focus mode Subjects at different distances appear in the centre of the scene at the same time. Subject has fine, repeated patterns. Press the **SET** button while the focus setting screen is displayed. Notes: · The camcorder may not be able to focus correctly if the subject is closer than approximately 1.5 m. Set the zoom control to wide angle, and try refocusing again. · If the lens is dirty or fogged, the camcorder may not be able to focus correctly. · When "MF" is displayed, you can manually adjust the focus by pressing **l** or **m**, even if the focus setting screen is not displayed. **Advanced Features** Fast-speed shutter being used under fluorescent lighting. 37 VL-NZ50H-037-041 37 02.2.15, 10:55 AM Manual Exposure The camcorder is preset to Auto Exposure mode, which automatically selects the optimal aperture.

However, when there is too much contrast in brightness between the subject and background, you may not be able to record a clear image. In this case, use the manual exposure function to correct the exposure level. To return to Auto Exposure mode Press the **SET** button while the exposure setting screen is displayed. Note: · Manual Exposure mode will cancel if a scene setting is selected thereafter. Background is too bright and subject too dark (backlit subject). Increase the exposure level to allow more light through the lens. Subject is too bright against background. · Decrease the exposure level to allow less light through the lens. **1** In **CAMERA** mode, press the **MANUAL** button until the exposure setting screen appears. **AUTO EX POSURE AUTO 2** Press **l** or **m** to select the desired exposure level.

· The number shown is the selected exposure level. The adjustment range is from +5 (least light) to L5 (most light). **Advanced Features MA N U A L E X POSURE +2** Exposure level **3** Press the **MANUAL** button until the normal screen appears. 38 VL-NZ50H-037-041 38 02.2.15, 10:55 AM **Advanced Features Camera Recording White Balance Lock** The colour of the subject on the screen looks different depending on lighting conditions. Lock the White Balance if the Auto White Balance does not work properly. To return to Auto White Balance mode Press the **SET** button while the white balance setting screen is displayed. Note: · White Balance setting will cancel if a scene setting is selected thereafter. **1** In **CAMERA** mode, press the **MANUAL** button until the white balance setting screen appears.

Setting the Camcorder to Full Auto mode To easily record good-quality images, perform camera shooting in Full Auto mode. If "AUTO" is not displayed on the screen, the camcorder is in Manual mode. Perform the procedure below to cancel all manual settings and set the camcorder to Full Auto mode. In **CAMERA** mode, press and hold down the **MANUAL** button for 2 second. · "FULL AUTO" flashes, then stop flashing when the camcorder is set to Full Auto mode. **AUTO WH I T E B A L . AUTO 2** Aim the lens at a white object. · Adjust the distance of the object so that the entire screen is white. White paper or white cloth **3** Press the **SET** button to set the white balance lock. · "LOCK" flashes during the locking procedure.

Advanced Features MA N U A L WH I T E B A L . L OCK Note: · If you move the camcorder while "LOCK" is flashing, "LOCK" may not stop flashing. If this occurs, press the **SET** button to cancel the procedure, and then repeat step 3. **4** Press the **MANUAL** button until the normal screen appears. 39 VL-NZ50H-037-041 39 02.2.15, 10:56 AM **Digital Picture Effects** These digital picture effects let you record the subject with a more dramatic effect. **4** Press **l** or **m** to select the desired digital picture effect, then press the **SET** button. · The selected digital picture effect displays on the menu screen. Types **B/W**: To record in black-and-white.

SEPIA: To record in sepia colour similar to that of an old photograph. **SOLARI**: To record with enhanced contrast, creating a unique artistic image. **NEGA**: To record a picture whose blacks and whites of the image are reversed and colours of the image are inverted. **BLUE**: To record with the effect of recording through a blue filter. **P I C**.

E F F E C T B W 5 Press the **MENU** button to turn off the menu screen. To cancel the digital picture effect Select "OFF" in step 4 above. Note: · Digital picture effects cannot be used when a still image is displayed. **1 2 3** In **CAMERA** mode, press the **MENU** button until the menu screen appears. @@Press **l** or **m** to select "PIC.

EFFECT", then press the **SET** button. **S E T T I N G 1 P I C . E F F E C T S C E N E M E N U Q K . R E T U R N R E T U R N O F F B W S E P I A S O L A R I N E G A B L U E 40** **Advanced Features VL-NZ50H-037-041 40 02.2.15, 10:56 AM Advanced Features Camera Recording Scene Menu (Program AE)** You can set the camcorder to the shooting mode that will create the best results for a specific situation. Just select one of four scene settings shown below. The camcorder will automatically set the exposure, white balance, and shutter speed to produce the optimum picture quality for the selected situation. **4** Press **l** or **m** to select the scene setting that best fits the recording situation, then press the **SET** button. · The selected scene setting displays on the menu screen.

S C E N E M E N U S P O R T 5 Press the **MENU** button to turn off the menu screen. · The selected scene setting indicator displays when the on-screen indicators are turned on. Types **SPORT**: When you want to record a fastmoving subject. **SUNLIGHT**: When the background is very bright. **DUSK**: When you want to faithfully record the red of the setting sun, and the surrounding twilight. **PARTY**: When the illumination is from a spotlight or candle. **S P O R T** Scene setting indicator To cancel the scene setting Select "OFF" in step 4 above. Note: · Scene settings cannot be used when displaying a still image. **1 2 3** In **CAMERA** mode, press the **MENU** button until the menu screen appears. @@Press **l** or **m** to select "SCENE MENU", then press the **SET** button.

Advanced Features S E T T I N G 1 P I C .



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