

THOMSON

DIGITAL VIDEO CAMERA







INSTRUCTIONS

3

	ENGLISH	
CONTENTS		
AUTOMATIC DEMONST	TRATION 5	
GETTING STARTED	6 - 13	
RECORDING	14 - 30	
Basic Recording For Video Basic Recording For Digital Still Camera (D.S.C.) Basic Recording For Video And Advanced Features For Video And D.S.C	17 D.S.C. 18	
PLAYBACK	31 - 39	
Basic Playback For Video Advanced Features For Video Basic Playback For D.S.C. Advanced Features For D.S.C.		
CONNECTIONS	40 - 43	
Basic Connections Advanced Connections		
DUBBING	44 - 47	
Dubbing To A VCR Dubbing To Or From A Video Ur Equipped With A DV Connecto Dubbing Images Stored In A MultiMediaCard To A Tape . Dubbing Images Recorded On A A MultiMediaCard	nit or 45 	•
USING THE REMOTE CONTROL UNIT	48 - 58	
Slow-Motion Playback, Frame- Playback and Playback Zoom Playback Special Effects Random Assemble Editing For More Accurate Editing Audio Dubbing		
TROUBLESHOOTING	59 - 64	
USER MAINTENANCE	65	
INDEX Controls, Connectors And Indice Indications		
CAUTIONS	73 – 75	
TERMS	76 - 77	
SPECIFICATIONS	78 – 79	



VMD6 EN (Sommaire)

2 en

۲

Dear Customer,

Thank you for purchasing this digital video camera. Before use, please read the safety information and precautions contained in the following pages to ensure safe use of this product.

Using This Instruction Manual

- All major sections and subsections are listed in the Table Of Contents (IF pg. 1).
- Notes appear after most subsections. Be sure to read these as well.
- Basic and advanced features/operation are separated for easier reference.
- It is recommended that you .

..... refer to the Index (🗊 pgs. 66 – 72) and familiarize yourself with button locations, etc. before use. read thoroughly the Safety Precautions. They contain extremely important information regarding the safe use of

this product.

You are recommended to carefully read the cautions on pages 73 through 75 before use.

SAFETY PRECAUTIONS

IMPORTANT (for owners in the U.K.) Connection to the mains supply in the United Kingdom.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved

extension lead or consult your dealer. BE SURE to replace the fuse only with an identical

approved type, as originally fitted, and to replace the fuse cover.

If nonetheless the mains plug is cut off be sure to remove the fuse and dispose of the plug immediately, to avoid possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below: **DO NOT** make any connection to the Larger Terminal

coded E or Green.

The wires in the mains lead are coloured in accordance with the following code:

Blue to N (Neutral) or Black Brown to L (Live) or Red

If these colours do not correspond with the terminal identifications of your plug, connect as follows: Blue wire to terminal coded N (Neutral) or coloured black.

Brown wire to terminal coded L (Live) or coloured Red. If in doubt — consult a competent electrician.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

CAUTIONS:

- To prevent shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified personnel.
- When you are not using the AC Power Adapter/ Charger for a long period of time, it is recommended that you disconnect the power cord from AC outlet.

2

VMD6 EN(02/39)

• The ratir

- The rating plate (serial number plate) and safety caution are on the bottom and/or the back of the main unit.
- The rating plate (serial number plate) of the AC Power Adapter/Charger is on its bottom.

This camcorder is designed to be used with PAL-type colour television signals. It cannot be used for playback with a television of a different standard. However, live recording and LCD monitor/ viewfinder playback are possible anywhere. Use the BAT 600 battery packs and, to recharge them, the provided multi-voltage AC Power Adapter/Charger. (An appropriate conversion adapter may be necessary to accommodate different designs of AC outlets in different countries.)

When the equipment is installed in a cabinet or on a shelf, make sure that it has sufficient space on all sides to allow for ventilation (10 cm or more on both sides, on top and at the rear).

Do not block the ventilation holes.

(If the ventilation holes are blocked by a newspaper, or cloth etc. the heat may not be able to get out.)

No naked flame sources, such as lighted candles, should be placed on the apparatus.

When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

The apparatus shall not be exposed to dripping or splashing.

Do not use this equipment in a bathroom or places with water.

Also do not place any containers filled with water or liquids (such as cosmetics or medicines, flower vases, potted plants, cups etc.) on top of this unit. (If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)



Do not point the lens or the viewfinder directly into the sun. This can cause eye injuries, as well as lead to the malfunctioning of internal circuitry. There is also a risk of fire or electric shock

ΕN

۲

CAUTION!

The following notes concern possible physical damage to the camcorder and to the user.

When carrying, be sure to always securely attach and use the provided shoulder strap. Carrying or holding the camcorder by the viewfinder and/or the LCD monitor can result in dropping the unit, or in a malfunction. Take care not to get your finger caught in the cassette holder cover. Do not let children operate the camcorder, as they are particularly susceptible to this type of injury. Do not use a tripod on unsteady or unlevel surfaces. It could tip over, causing serious damage to the camcorder.

CAUTION!

Connecting cables (Audio/Video, S-Video, Editing, DC, etc.) and then leaving it on top of the TV is not recommended, as tripping on the cables will cause the camcorder to fall, resulting in damage.



This camcorder is designed exclusively for the digital video cassette and MultiMediaCard. Only cassettes marked "Med D," and memory cards marked "MultiMediaCard " can be used with this unit.

Before recording an important scene . . .

- make sure you only use cassettes with the Mini DV mark Min DV
- make sure you only use memory cards with the mark MultiMediaCard remember that this camcorder is not compatible with other digital video formats.
- remember that this camcorder is intended for private consumer use only. Any commercial use without proper permission is prohibited. (Even if you record an event such as a show, performance or exhibition for personal enjoyment, it is strongly recommended that you obtain permission beforehand.)

SOME DO'S AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

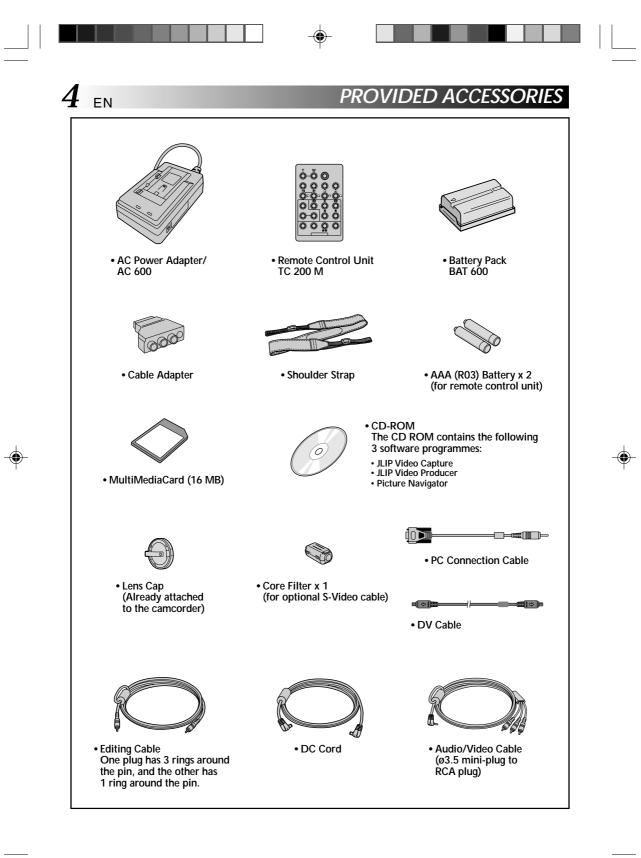
- DO read the operating instructions before you attempt to use the equipment. DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.
- DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment. be careful with glass panels or doors on equipment. DO
- DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.
- DON'T remove any fixed cover as this may expose dangerous voltages
- **DON'T** leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure that your family knows how to do this. Special arrangements may need to be made for infirm or handicapped people.
- DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of road safety. It is illegal to watch television whilst driving.
- DON'T listen to headphones at high volume, as such use can permanently damage your hearing
- **DON'T** obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment. DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the
- manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture

ABOVE ALL

- NEVER let anyone especially children push anything into holes, slots or any other opening in the case this could result in a fatal electrical shock
 - NEVER guess or take chances with electrical equipment of any kind it is better to be safe than sorry!

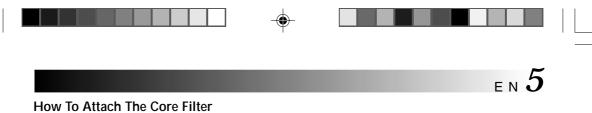
VMD6 EN(02/39)



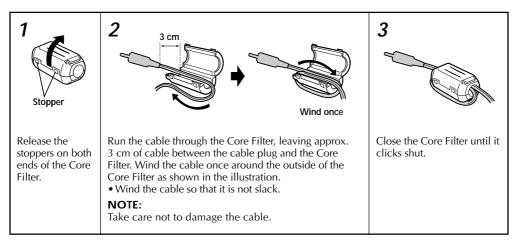
VMD6 EN(02/39)

--

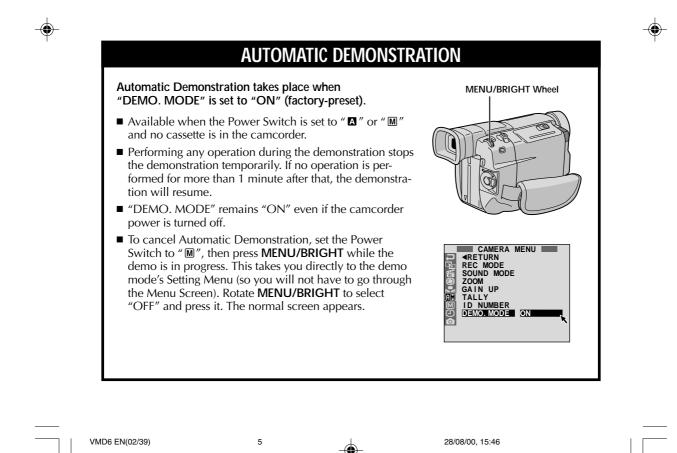
4

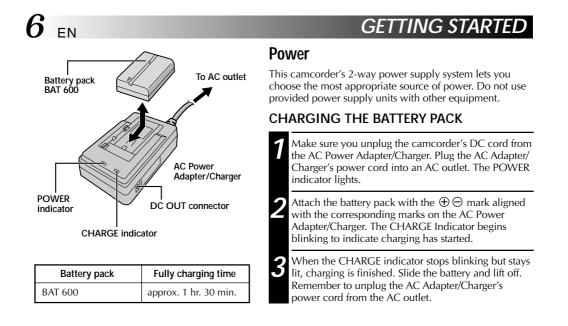


Attach the provided Core Filter to an optional S-Video cable. The Core Filter reduces interference.



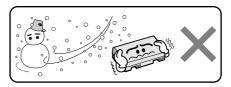
■ When connecting cables, attach the end with the Core Filter to the camcorder.





NOTES:

- If the protective cap is attached to the battery pack, remove it first.
- Perform charging where the temperature is between 10°C and 35°C. 20°C to 25°C is the ideal temperature range for charging. If the environment is too cold, charging may be incomplete.
- Charging times noted above are for a fully discharged battery pack.
- Charging time varies according to the ambient temperature and the status of the battery pack.
- To avoid interference with reception, do not use the AC Power Adapter/Charger near a radio.
- If you connect the camcorder's DC cord to the adapter during battery charging, power is supplied to the camcorder and charging stops.
- Since the AC Power Adapter/Charger processes electricity internally, it becomes warm during use. Be sure to
 use it only in well-ventilated areas.
- When charging the battery pack for the first time or after a long storage period, the CHARGE indicator may not light. In this case, remove the battery pack from the AC Power Adapter/Charger, then try charging again.
- If the battery operation time remains extremely short even after having been fully charged, the battery is worn out and needs to be replaced. Please purchase a new one.



Lithium-ion is vulnerable in colder temperatures.



6

About Batteries

DANGER! Do not attempt to take the batteries apart, or expose them to flame or excessive heat, as it may cause a fire or explosion.

WARNING! Do not allow the battery or its terminals to come in contact with metals, as this can result in a short circuit and possibly start a fire.

The Benefits Of Lithium-Ion Batteries

Lithium-ion battery packs are small but have a large power capacity. However, when one is exposed to cold temperatures (below 10°C), its usage time becomes shorter and it may cease to function. If this happens, place the battery pack in your pocket or other warm, protected place for a short time, then re-attach it to the camcorder. As long as the battery pack itself is not cold, it should not affect performance.

(If you're using a heating pad, make sure the battery pack does not come in direct contact with it.)

VMD6 EN(02/39)

•

USING THE BATTERY PACK

Tilt the viewfinder upward ①.

- Į With the arrow on the battery pack pointing downward, push the battery pack pointing downward, push the battery pack slightly against the battery pack mount (2), then slide down the battery pack until it locks in place (3).
 - If the battery pack is attached with its $\oplus \ominus$ mark set in the wrong direction, a malfunction may occur.

ΕN

To Detach The Battery Pack .

... tilt the viewfinder upward ① and slide the battery pack up slightly while pressing **BATTERY RELEASE** to detach it.

Approximate recording time

Battery pack	LCD monitor on/ Viewfinder off	LCD monitor off/ Viewfinder on
BAT 600	1 hr. (35 min.)	1 hr. 15 min. (40 min.)

) : when the video light is on. (

NOTES:

- Recording time is reduced significantly under the following conditions:
- To lowing conditions:
 Zoom or Record-Standby mode is engaged repeatedly.
 The LCD monitor is used repeatedly.
 The playback mode is engaged repeatedly.
 Before extended use, it is recommended that you prepare enough battery packs to cover 3 times the planead chaoting time.
- planned shooting time.

ATTENTION:

Before detaching the power source, make sure that the camcorder's power is turned off. Failure to do so can result in a camcorder malfunction.

USING AC POWER

Use the AC Power Adapter/Charger (connect as shown in the illustration).

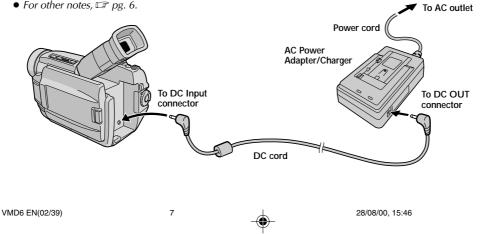
BATTERY RELEASE

Button

NOTES:

• The provided AC Power Adapter/Charger features automatic voltage selection in the AC range from 110 V to 240 V.

• For other notes, 🖙 pg. 6.



GETTING STARTED (cont.)

Grip Adjustment

Separate the Velcro strip. 1

Į Pass your right hand through the loop and grasp the grip.

Adjust so that your thumb and fingers can easily ſ operate the Recording Start/Stop Button and Power Zoom Lever. Refasten the Velcro strip.

Viewfinder Adjustment



Power Switch

Dioptre Adjustment Control

Set the Power Switch to " A " or " M " while pressing down the Lock Button located on the switch.

Turn the Dioptre Adjustment Control until the indications in the viewfinder are clearly focused.

Shoulder Strap Attachment

Make sure the battery pack or DC cord is removed. Following the illustration, thread the strap through the eyelet ①, then fold it back and thread it through the buckle 2. Repeat the procedure to attach the other end of the strap to the other eyelet ③ located under the Grip Strap, making sure the strap is not twisted.

Tripod Mounting

Align the screw and camera direction stud on the tripod with the camera's mounting socket and stud hole. Then tighten the screw. • Some tripods are not equipped with studs.

CAUTION:

When using a tripod, be sure to open and extend its legs fully to stabilise the camcorder. To prevent damage to the unit caused by falling over, do not use a smallsized tripod.

VMD6 EN(02/39)

8

ΕN

Power Zoom Lever

Recording Start/Stop button

PAUSE

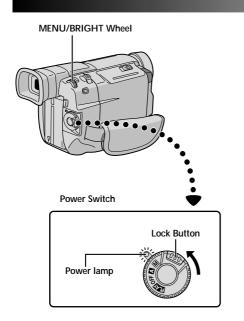
PAUSE

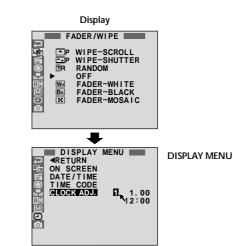
(3

8

₽

(2)





Date/Time Settings

The date/time is recorded onto the tape at all times, but its display can be turned on or off during playback (CF pg. 32).

e n 9

Set the Power Switch to " M " while pressing down the Lock Button located on the switch. The power lamp lights and the camcorder is turned on.

Press MENU/BRIGHT. The Menu Screen appears.

3 Rotate **MENU/BRIGHT** to select " **1**". Press it and "DISPLAY MENU" appears.

Rotate **MENU/BRIGHT** to select "CLOCK ADJ.". Press it and "day" is highlighted. Rotate **MENU/BRIGHT** to input the day. Press it. Repeat to input the month, year, hour and minute. Rotate **MENU/BRIGHT** to select "**A**RETURN", and press it twice. The Menu Screen closes.

NOTE:

)

4

Even if you select "CLOCK ADJ.", if the parameter is not highlighted the camcorder's internal clock continues to operate. Once you move the highlight bar to the first date/ time parameter (day), the clock stops. When you finish setting the minute and press **MENU/BRIGHT**, the date and time begin operation from the date and time you just set.

VMD6 EN(02/39)

9

10 EN Frase protection tab* Wake sure the window side is facing out. OPEN/EJECT Switch OPEN/EJECT Switch Cassette holder Cassette holder Cassette holder Cassette holder Cassette holder

* To Protect Valuable Recordings . . .

.... slide the erase protection tab on the back of the tape in the direction of "SAVE". This prevents the tape from being recorded over. To record on this tape, slide the tab back to "REC" before loading it.

GETTING STARTED (cont.)

Loading/Unloading A Cassette

The camcorder needs to be powered up to load or eject a cassette.

Slide and hold **OPEN/EJECT** in the direction of the arrow then pull the cassette holder cover open until it locks. The cassette holder opens automatically. • Do not touch internal components.

Insert or remove a tape and press "PUSH HERE" to close the cassette holder.

- Once the cassette holder is closed, it recedes automatically. Wait until it recedes completely before closing the cassette holder cover.
- When the battery's charge is low, you may not be able to close the cassette holder cover. Do not apply force. Replace the battery with a fully charged one before continuing.

Close the cassette holder cover firmly until it locks into place.

Approximate recording time

Tape	Recording mode	
Tape	SP	LP
30 min.	30 min.	45 min.
60 min.	60 min.	90 min.
80 min.	80 min.	120 min.

NOTES:

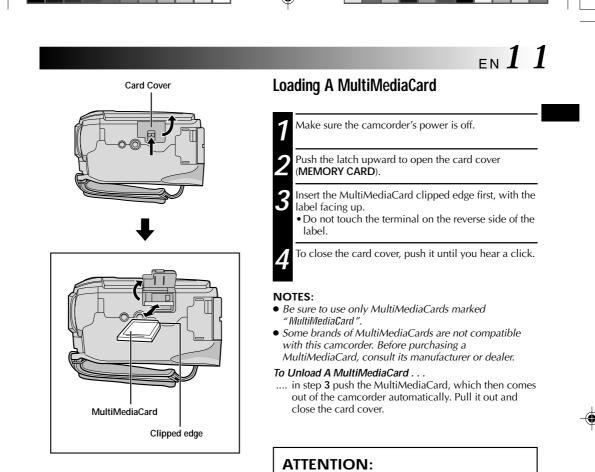
- It takes a few seconds for the cassette holder to open. Do not apply force.
- If you wait a few seconds and the cassette holder does not open, close the cassette holder cover and try again. If the cassette holder still does not open, turn the camcorder off then on again.

)

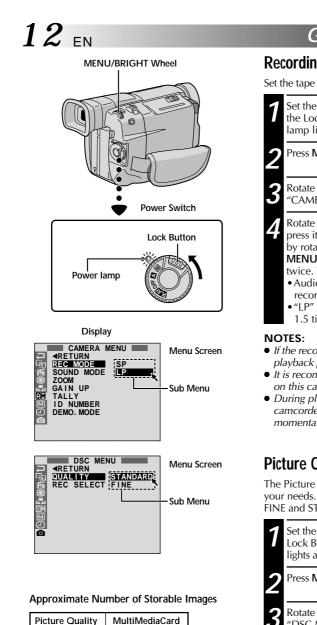
- If the tape does not load properly, open the cassette holder cover fully and remove the cassette. A few minutes later, insert it again.
- When the camcorder is suddenly moved from a cold place to a warm environment, wait a short time before opening the cassette holder cover.
- Closing the cassette holder cover before the cassette holder comes out may cause damage to the camcorder.
- Even when the camcorder is switched off, a cassette can be loaded or unloaded. After the cassette holder is closed with the camcorder switched off, however, it may not recede. It is recommended to turn the power on before loading or unloading.
- When resuming recording, once you open the cassette holder cover a blank portion will be recorded on the tape or a previously recorded scene will be erased (recorded over) regardless of whether the cassette holder came out or not. See page 19 for information about recording from the middle of a tape.
- Loosen the Grip Strap if it appears to interfere with the cassette holder cover operation (2 pg. 8).

VMD6 EN(02/39)

10



Do not insert/remove the MultiMediaCard while the camcorder is turned on, as this may cause the MultiMediaCard to be corrupted or cause the camcorder to become unable to recognize whether or not the card is installed.



Picture Quality	MultiMediaCard
	16 MB (provided)
FINE	200
STANDARD	400

NOTE:

The number of storable images depends on the selected Picture Quality mode as well as the composition of the subjects in the images.

GETTING STARTED (cont.)

Recording Mode Setting

Set the tape recording mode depending on your preference.

Set the Power Switch to " M" while pressing down the Lock Button located on the switch. The power lamp lights and the camcorder is turned on.
Press MENU/BRIGHT. The Menu Screen appears.
Rotate MENU/BRIGHT to select " M" and press it. "CAMERA MENU" appears.
Rotate MENU/BRIGHT to select "REC MODE" and press it. The Sub Menu appears. Select "SP" or "LP"

- by rotating **MENU/BRIGHT** and press it. Rotate **MENU/BRIGHT** to select "**A**RETURN", and press it twice. The Menu Screen closes.
- Audio Dubbing (IIF pg. 58) is impossible on a tape recorded in the LP mode.
- "LP" (Long Play) is more economical, providing 1.5 times the recording time.
- If the recording mode is switched during recording, the playback picture will be blurred at the switching point.
- It is recommended that tapes recorded in the LP mode on this camcorder be played back on this camcorder.
- During playback of a tape recorded on another camcorder, blocks of noise may appear or there may be momentary pauses in the sound.

Picture Quality Mode Setting

The Picture Quality mode can be selected to best match your needs. Two Picture Quality modes are available: FINE and STANDARD (in order of quality).

Set the Power Switch to "M" while pressing down the Lock Button located on the switch. The power lamp lights and the camcorder is turned on.

Press MENU/BRIGHT. The Menu Screen appears.

Rotate **MENU/BRIGHT** to select " **1** " and press it. "DSC MENU" appears.

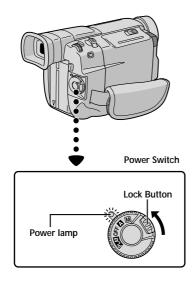
Rotate **MENU/BRIGHT** to select "QUALITY" and press it. The Sub Menu appears. Rotate **MENU/ BRIGHT** to select the desired mode and press it. Rotate **MENU/BRIGHT** to select "**A**RETURN", and press it twice. The Menu Screen closes.

VMD6 EN(02/39)

12

en **1**3

To turn on the camcorder, set the Power Switch to any operation mode except "OFF" while pressing down the Lock Button located on the switch.



When the Power Switch is set to " \square ", "F. AUTO" appears. When set to " \square " or " \square ", there is no indication.



When the Power Switch is set to " [" or " []" and the VIDEO/DSC Switch is set to " DSC", "DSC" appears. When set to "VIDEO", there is no indication.



Operation Mode

Choose the appropriate operation mode according to your preference using the Power Switch and **VIDEO/DSC** Switch.

Power Switch Position

M (Manual):

Allows you to set various recording functions using the Menus. If you want more creative capabilities than Full Auto recording, try this mode.

(Full Auto):

Allows you to record using NO special effects or manual adjustments. Suitable for standard recording.

OFF: Allow

Allows you to switch off the camcorder.

PLAY :

Allows you to play back a recording on the tape, to display a still image stored in the MultiMediaCard or to transfer a still image recorded on the tape or in the MultiMediaCard to a computer.



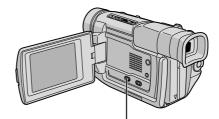
VIDEO/DSC Switch Position

VIDEO:

Allows you to record on a tape or play back a tape. If "REC SELECT" is set to " $\rightarrow \Box$ "/ \rightarrow \Box " " in the DSC Menu Screen, still images are also recorded in the MultiMediaCard.

DSC :

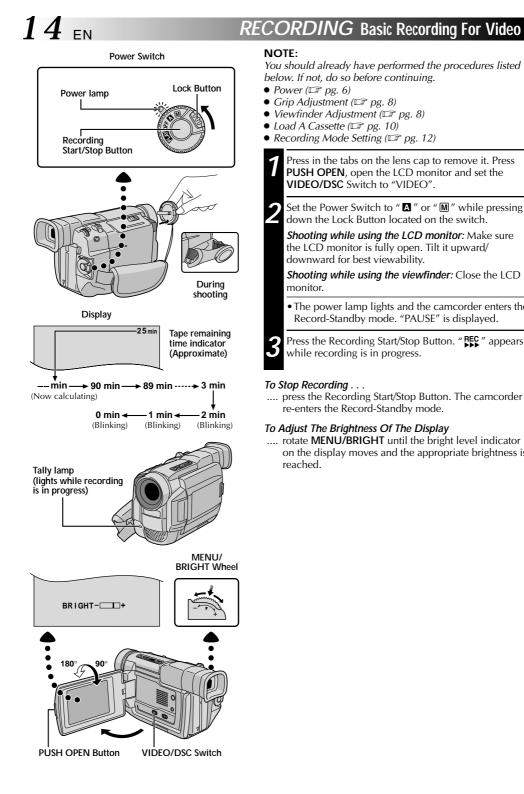
Allows you to record a still image or display a still image stored in the MultiMediaCard.



VIDEO/DSC Switch (Open the LCD monitor to access this switch.)

VMD6 EN(02/39)

13



You should already have performed the procedures listed

Press in the tabs on the lens cap to remove it. Press PUSH OPEN, open the LCD monitor and set the

Set the Power Switch to " A " or " M " while pressing down the Lock Button located on the switch.

Shooting while using the LCD monitor: Make sure the LCD monitor is fully open. Tilt it upward/

Shooting while using the viewfinder: Close the LCD

• The power lamp lights and the camcorder enters the Record-Standby mode. "PAUSE" is displayed.

Press the Recording Start/Stop Button. " REC " appears

.... press the Recording Start/Stop Button. The camcorder

.... rotate MENU/BRIGHT until the bright level indicator on the display moves and the appropriate brightness is

VMD6 EN(02/39)

14

NOTES:

- When you use the LCD monitor outdoors in direct sunlight, the LCD monitor may be difficult to see. If this happens, use the viewfinder instead.
- The image will not appear simultaneously in the LCD monitor and the viewfinder .
- The cassette holder cannot be opened unless a power supply is attached.
- There may be a delay after you open the cassette holder cover until the cassette holder opens. Do not use force.
 Once the cassette holder is closed, it recedes automatically. Wait until it recedes completely before closing
- the cassette holder cover.
- The time required to calculate and display the remaining tape length, and the accuracy of the calculation, may vary according to the type of tape used.
- "TAPE END" appears when the tape reaches its end, and the power goes off automatically if left in this condition for 5 minutes. "TAPE END" also appears when a cassette at its end is loaded.
- If the Record-Standby mode continues for 5 minutes, the camcorder's power shuts off automatically. To turn the camcorder on again, set the Power Switch to "OFF", then back to " A" or " M".
- When a blank portion is left between recorded scenes on the tape, the time code is interrupted and errors may occur when editing the tape. To avoid this, refer to "Recording from the middle of a tape" (I pg. 19).
- During recording, sound is not heard from the speaker.
- To turn the tally lamp off during recording, 🖙 pg. 22, 23.
- To remove the indications from the camcorder's display during recording, 🖙 pg. 22, 25.



JOURNALISTIC SHOOTING

In some situations, different shooting angles may provide more dramatic results. Hold the camcorder in the desired position and tilt the LCD monitor in the most convenient direction. It can rotate 270° (90° downward, 180° upward).

SELF-RECORDING

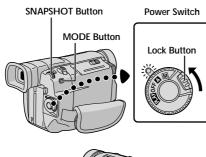
You can shoot yourself while viewing your own image in the LCD monitor. Open the LCD monitor and tilt it upward 180° so that it faces forward, then point the lens toward yourself and start recording.

EN 15

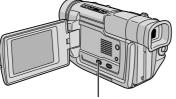
15

-

RECORDING Basic Recording For Video (cont.)



16 EN



VIDEO/DSC Switch (Open the LCD monitor to access this switch.)





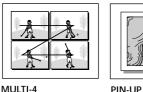
FRAME Snapshot mode with frame'



FULL Snapshot mode with no frame

Multi-Analyser 9

MULTI-9



PIN-UP Pin-Up mode³

* There is the sound effect of a shutter closing.

VMD6 EN(02/39)

Multi-Analyser 4

16

Snapshot (For Video Recording)

This feature lets you record still images that look like photographs onto a tape.

SNAPSHOT MODE SELECTION

Set the VIDEO/DSC Switch to "VIDEO", then set the Power Switch to " A " or " M " while pressing down the Lock Button located on the switch.

Choose the appropriate Snapshot mode from the 5 2 available by repeatedly pressing MODE until the desired snapshot mode indicator appears.

SNAPSHOT RECORDING

Press SNAPSHOT.

- If you press during Record-Standby . . .
 - "PHOTO" appears and a still image will be recorded for approx. 6 seconds, then the camcorder re-enters the Record-Standby mode.
- If you press during Recording . .
- "PHOTO" appears and a still image will be recorded for approx. 6 seconds, then the normal recording resumes.

Motor Drive Mode

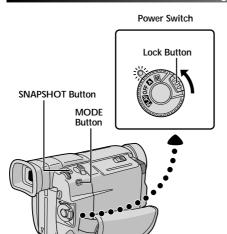
Keeping **SNAPSHOT** pressed provides an effect similar to serial photography. (Interval between still images: approx. 1 second)

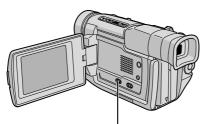
NOTES:

- Even if "MULTI-4" or "MULTI-9" is engaged, Snapshot recording will be performed in the FULL mode during Digital Zoom.
- If Snapshot recording is not possible, "PHOTO" blinks when **SNAPSHOT** is pressed.
- If Programme AE with special effects (I pg. 28) is engaged, certain modes of Programme AE with special effects are disabled during Snapshot recording. In such a case, the icon blinks.
- If SNAPSHOT is pressed when "DIS" is set to "ON"
- (□) pg. 24), the Stabiliser will be disabled.
 When "REC SELECT" is set to "→ □ /→ □ / → □ / → □ Menu Screen (III pg. 25), still images are recorded not only onto the tape but also in the MultiMediaCard. If SNAPSHOT is pressed when a tape is not loaded, still images will not be recorded in the MultiMediaCard.
- To dub images recorded on a tape to the MultiMediaCard, 🖙 pg. 47
- During tape playback as well, all snapshot modes are Menu Screen (III pg. 32). However, the shutter sound is not heard.
- During Snapshot recording, the image displayed in the viewfinder may be partially missing. However, there is no effect in the recorded image.
- When a cable is connected to the AV connector, the shutter sound is not heard from the speaker, however it is recorded onto the tape.
- will appear while the snapshot is being taken.



RECORDING Basic Recording For Digital Still Camera (D.S.C.)

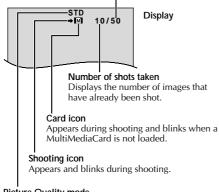




VIDEO/DSC Switch (Open the LCD monitor to access this switch.)

Total number of shots

Displays the approximate total number of shots that can be stored, including those already taken. The number increases or decreases depending on the shots stored, the Picture Quality mode, etc.



Picture Quality mode Displays the Picture Quality mode of the stored image. There are 2 modes available: FINE and STD (Standard) (ℂℱ pg. 12).

VMD6 EN(02/39)

17

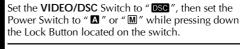
Basic Shooting (Snapshot)

You can use your camcorder as a Digital Still Camera for taking snapshots.

NOTE:

- You should already have performed the procedures listed below. If not, do so before continuing.
- Power (🖙 pg. 6)
- Grip Adjustment (🖙 pg. 8)
- Viewfinder Adjustment (I pg. 8)
- Loading A MultiMediaCard (pg. 11)
- Picture Quality Mode Setting (pg. 12)

SNAPSHOT MODE SELECTION



- Choose the appropriate Snapshot mode from the 5 available by repeatedly pressing **MODE** until the desired snapshot mode indicator appears.
- The available Snapshot modes are the same as those on pg. 16.

SNAPSHOT RECORDING





EN 17

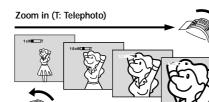
To Delete Unwanted Still Images . . .

.... when unwanted still images are stored in the MultiMediaCard or its memory is full, refer to "Deleting Images" (CP pg. 38) and delete unwanted still images.

NOTES:

- Even if "MULTI-4" or "MULTI-9" is engaged, Snapshot recording will be performed in the FULL mode during Digital Zoom.
- Even if "DIS" is set to "ON" (I pg. 24), the Stabiliser will be disabled.
- If Snapshot recording is not possible, "PHOTO" blinks when SNAPSHOT is pressed.
- The Motor Drive mode (IF pg. 16) is disabled when the VIDEO/DSC Switch is set to "ISC".
 If Programme AE with special effects (IF pg. 28) is
- If Programme AE with special effects (IF pg. 28) is engaged, certain modes of Programme AE with special effects are disabled during Snapshot recording. In such a case, the icon blinks.
- If shooting is not performed for approx. 5 minutes when the Power Switch is set to "\[A]" or "\[M]" and power is supplied from the battery pack, the camcorder shuts off automatically to save power. To perform shooting again, set the Power Switch to "OFF", then to "\[A]" or "\[M]".
- Still images taken are compliant to DCF (Design rules for Camera File systems). They do not have any compatibility with devices which are not compliant to DCF.

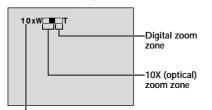
RECORDING Basic Recording For Video And D.S.C.



Zoom out (W: Wide angle)

Zoom display

18 EN



Approximate zoom ratio



FEATURE: Zooming

PURPOSE:

To produce the zoom in/out effect, or an instantaneous change in image magnification.

OPERATION:

Zoom In Slide the Power Zoom Lever towards "T".

Zoom Out

Slide the Power Zoom Lever towards "W".The further you slide the Power Zoom Lever, the guicker the zoom action.

NOTES:

- Focusing may become unstable during Zooming. In this case, set the zoom while in Record-Standby, lock the focus by using the manual focus
- (IIF pg. 21), then zoom in or out in Record mode.
 Zooming is possible to a maximum of 100X, or it can be switched to 10X magnification using the optical zoom (IIF pg. 23).
- Digital image processing, and is therefore called Digital image processing, and is therefore called Digital Zoom.
- During Digital zoom, the quality of image may suffer.
- Digital zoom cannot be used when digital image processing, such as Picture Wipe/Dissolve (III) pg. 26, 27) or Video Echo (III) pg. 28), is activated.
- Macro shooting (as close as approx. 5 cm to the subject) is possible when the Power Zoom Lever is set all the way to "W". Also see "TELE MACRO" in the Menu Screen on page 24.

VMD6 EN(02/39)

18

NOTE: Recording From The Middle Of A Tape

Time Code

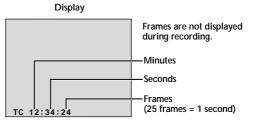
During recording, a time code is recorded on the tape. This code is to confirm the location of the recorded scene on the tape during playback.

If recording starts from a blank portion, the time code begins counting from "00:00:00"

(minute:second:frame). If recording starts from the end of a previously recorded scene, the time code continues from the last time code number.

To perform Random Assemble Editing (\square pg. 52 – 57), time code is necessary. If during recording a blank portion is left partway through the tape, the time code is interrupted. When recording is resumed, the time code starts counting up again from "00:00:00". This means the camcorder may record the same time codes as those existing in a previously recorded scene. To prevent this, perform "Recording From The Middle of A Tape" below in the following cases;

- •When shooting again after playing back a recorded tape.
- When power shuts off during shooting.
- When a tape is removed and re-inserted during shooting.
- When shooting using a partially recorded tape.
- When shooting on a blank portion located partway through the tape.
- When shooting again after shooting a scene then opening/closing the cassette holder cover.



EN 19

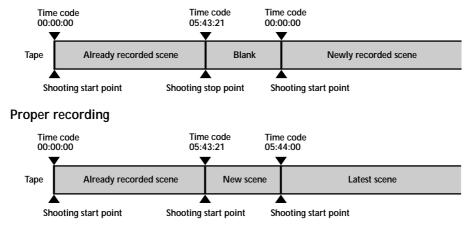
Recording From The Middle Of A Tape

- 1. Play back a tape to find the spot at which you want to start recording, then engage the Still Playback mode (IFP pg. 31).
- 2. Set the Power Switch to " 🖾 " or " 🕅 " while pressing down the Lock Button located on the switch, then start recording.

NOTES:

- The time code cannot be reset.
- During fast-forwarding and rewinding, the time code indication does not move smoothly.
- The time code is displayed only when "TIME CODE" is set to "ON" (IF pg. 25, 32).

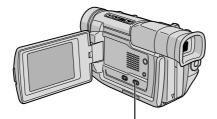
When a blank portion is recorded on a tape



VMD6 EN(02/39)

19

20 EN RECORDING Basic Recording For Video And D.S.C. (cont.)



LIGHT OFF/AUTO/ON Switch (Open the LCD monitor to access this switch.)

DANGER

- The video light can become extremely hot. Do not touch it either while in operation or soon after turning it off, otherwise serious injury may result.
- Do not place the camcorder into the carrying case immediately after using the video light, since it remains extremely hot for some time.
- When operating, keep a distance of about 30 cm between the video light and people or objects.
- Do not use near flammable or explosive materials.
- It is recommended that you consult your nearest THOMSON dealer for replacing the video light.

FEATURE: Video Light

PURPOSE:

To brighten the scene when natural lighting is too dim. **OPERATION:**

Set LIGHT OFF/AUTO/ON as required:

OFF : Turns off the light.

- AUTO : Automatically turns on the light when the camcorder senses insufficient lighting on the subject.
- **ON** : Always keeps the light on as long as the camcorder is turned on.
- The video light can only be used with the camcorder's power on.
- It is recommended to set the white balance $\sqrt{2}$ as 20 to $\frac{1}{20}$ where where white balance

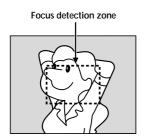
NOTES:

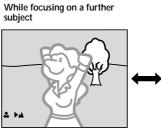
- Even if the battery indicator () does not blink due to low battery charge, the camcorder may turn off automatically when you turn on the video light, or when you start recording with the video light turned on.
- When LIGHT OFF/AUTO/ON is set to "AUTO":
 - Depending on the lighting conditions, the video light may keep turning on and off. In this case, manually switch the light on or off using LIGHT OFF/AUTO/ON.
 - While the "SHUTTER" mode (I g pg. 28) is engaged, the light is likely to stay on.
- While the "TWILIGHT" mode (pg. 28) is engaged, the light will not activate.

20

RECORDING Advanced Features For Video And D.S.C.







While focusing on a nearer subject



FEATURE: Auto Focus

PURPOSE:

The camcorder's Full Range AF system offers continuous shooting ability from close-up (as close as approx. 5 cm to the subject) to infinity.

- However, correct focus may not be obtainable in the situations listed below (in these cases use manual focusing):
- When two subjects overlap in the same scene.
- When illumination is low."
- When the subject has no contrast (difference in brightness and darkness), such as a flat, one-colour wall, or a clear, blue sky.*
- When a dark object is barely visible in the viewfinder.*
- When the scene contains minute patterns or identical patterns that are regularly repeated.
- When the scene is affected by sunbeams or light reflecting off the surface of a body of water.
- When shooting a scene with a high-contrast background.
- * The following low-contrast warnings appear blinking: \blacktriangle , \blacktriangleleft , \blacktriangleright and \clubsuit

NOTES:

- If the lens is smeared or blurred, accurate focusing is not possible. Keep the lens clean, wiping with a piece of soft cloth if it gets dirty. When condensation occurs, wipe with a soft cloth or wait for it to dry naturally.
- When shooting a subject close to the lens, zoom out first (IIP pg. 18). If zoomed-in in the auto focus mode, the camcorder may automatically zoom out depending on the distance between the camcorder and the subject. This will not occur when "TELE MACRO" (IIP pg. 24) is activated.

FEATURE: Manual Focus

PURPOSE:

To obtain correct focus.

OPERATION:

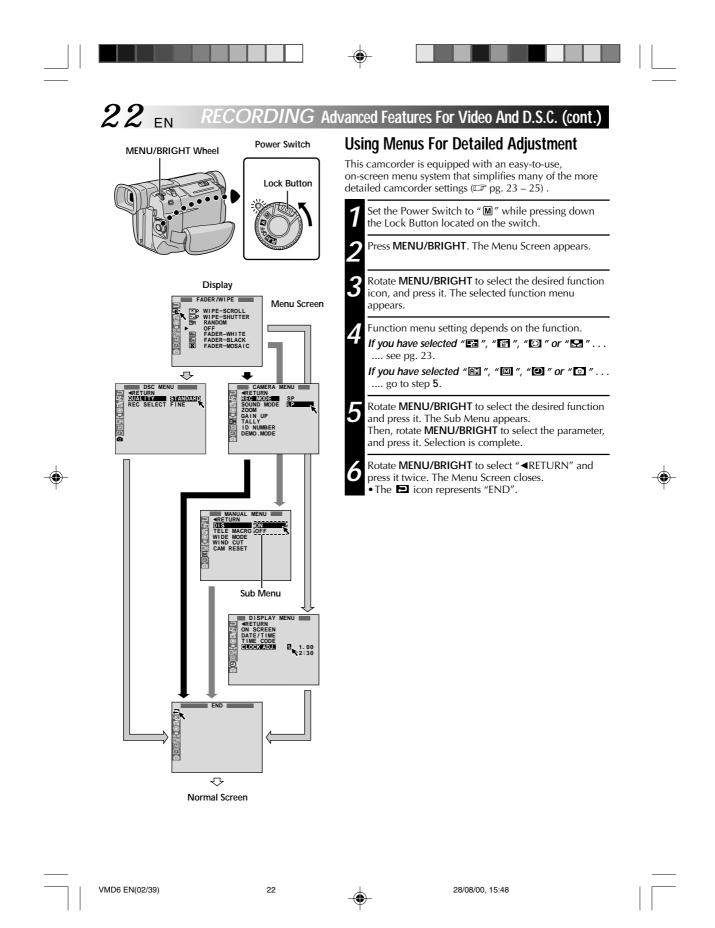
- **1)** If you are using the viewfinder, you should already have made the necessary viewfinder adjustments (CF pg. 8).
- 2) Set the Power Switch to " M ", then press FOCUS (►►). The manual focus indicator appears.
- 3) To focus on a farther subject, rotate MENU/BRIGHT towards "+". "▶" appears and blinks. To focus on a nearer subject, rotate MENU/BRIGHT towards "-". "◄" appears and blinks.
- 4) Press MENU/BRIGHT. Focus adjustment is complete.
- To reset to Auto Focus, press **FOCUS** (►►) twice or set the Power Switch to " **Δ**".
- If **FOCUS** (**>>**) is pressed once, the camcorder will enter the focus adjustment mode again.

NOTES:

- Be sure to focus the lens in the maximum telephoto position when you use the Manual Focus mode. If you focus in on a subject in the wide-angle position, sharply focused images cannot be obtained when zoomed up because the depth-of-field is reduced at longer focal lengths.
- When the focus level cannot be adjusted any further or closer, "▲" or "▲" will blink.

VMD6 EN(02/39)

21



$_{\text{EN}}23$

Menu Screen Explanations

		•	
FADER/WIPE		IPE	Refer to "Fade/Wipe Effects" (CF pg. 26, 27).
P.AE/EFFECT		ECT	Refer to "Programme AE With Special Effects" (IF pg. 28).
S EXPOSURE		E	Refer to "Exposure Control" and "Iris Lock" (EF pg. 29).
M.BALANCE		CE	Refer to "White Balance Adjustment" and "Manual White Balance Operation" (IFF pg. 30).
REC MODE		E	Allows you to set the recording mode (SP or LP) depending on your preference (\mathbb{LF} pg. 12).
	SOUND MODE	12 BIT	Enables video recording of stereo sound on four separate channels, and is recommended for use when performing audio dubbing (IFP pg. 58). (Equivalent to the 32 kHz mode of previous models)
		16 BIT	Enables video recording of stereo sound on two separate channels. (Equiva- lent to the 48 kHz mode of previous models)
	ZOOM	10X	When set to "10X" while using digital zoom, the zoom magnification will reset to 10X since digital zoom will be disengaged.
CAMERA MENU		40X	Allows you to use the Digital Zoom. By digitally processing and magnifying images, zooming is possible from 10X (the optical zoom limit), to a maximum of 40X digital magnification.
		100X	Allows you to use the Digital Zoom. By digitally processing and magnifying images, zooming is possible from 10X (the optical zoom limit), to a maximum of 100X digital magnification.
0 I	GAIN UP	OFF	Allows you to shoot dark scenes with no picture brightness adjustment.
E		AGC	The overall appearance may be grainy, but the image is bright.
		AUTO Aૠ	The shutter speed is automatically adjusted ($1/25 - 1/200$ sec.). Shooting a subject in low or poor lighting at $1/25$ sec. shutter speed provides a brighter image than in the AGC mode, but the subject's movements are not smooth or natural. The overall appearance may be grainy. When the shutter speed is automatically adjusted, " A: " is displayed.
	TALLY	ON	The tally lamp comes on to signal the start of recording.
		OFF	The tally lamp remains off at all times.
	ID NUMBER		r is necessary when connecting the camcorder to a device such as a computer erminal (JLIP). The numbers range from 01 to 99. Factory setting is 06.

: Factory-preset

NOTES:

The "M CAMERA MENU" settings are effective when the Power Switch is set to both "A" and "M".
"REC MODE" can be set when the Power Switch is set to "M" or "LAN" (L pg. 12, 32).

CONTINUED ON NEXT PAGE

VMD6 EN(02/39)

23

24 EN RECORDING Advanced Features For Video And D.S.C. (cont.)

Menu Screen Explanations (cont.)

E CAMERA MENU	DEMO. MODE	ON	 Demonstrates certain functions such as Programme AE with special effects, etc., and can be used to confirm how these functions operate. When "DEMO. MODE" is set to "ON" and the Menu Screen is closed, demonstration starts. Performing any operation during the demonstration stops the demonstration temporarily. If no operation is performed for more than 1 minute after that, the demonstration will resume. NOTES: If a tape is in the camcorder, the demonstration cannot be turned on. "DEMO. MODE" remains "ON" even if the camcorder power is turned off. If "DEMO. MODE" remains "ON", some functions will not be available. After viewing demo, set to "OFF".
		OFF	Automatic demonstration will not take place.
NU	DIS	OFF	 To compensate for unstable images caused by camera-shake, particularly at high magnification. NOTES: Accurate stabilisation may not be possible if hand shake is excessive, or under the following conditions: When shooting subjects with vertical or horizontal stripes. When shooting dark or dim subjects. When shooting subjects with excessive backlighting. When shooting scenes with movement in various directions. When shooting scenes with low-contrast backgrounds. Switch off this mode when recording with the camcorder on a tripod. The "Cy_e" indicator blinks or goes out if the Stabiliser cannot be used.
	TELE MACRO	ON OFF	Usually the distance to a subject where the lens is in focus depends on the zoom magnification. Unless there is a distance more than 1m to the subject, the lens is out of focus at the maximum telephoto setting. When set to "ON", you can shoot a subject as large as possible at a distance of approx. 60 cm. • Depending on the zoom position, the lens may go out of focus.
JAL MI	WIDE MODE	OFF	Records with no change in the screen ratio. For playback on a TV with a normal screen ratio.
🖾 MANUAL MENU		CINEMA	Inserts black bands at the top and bottom of the screen. During playback on wide-screen TVs, the black bands at the top and bottom of the screen are cut and the screen ratio becomes 16:9. appears. When using this mode, refer to your wide-screen TV's instruction manual. During playback/recording on 4:3 TVs/LCD monitor/viewfinder, black bands are inserted at the top and bottom of the screen and the image appears like a letterboxed 16:9 movie. • The "CINEMA" mode is effective only when the VIDEO/DSC Switch is set to "VIDEO".
		SQUEEZE	 For playback on TVs with an aspect ratio of 16:9. Naturally expands the image to fit the screen without distortion. appears. When using this mode, refer to your wide-screen TV's instruction manual. During playback/recording on 4:3 TVs/LCD monitor/viewfinder, the image is elongated vertically. The "SQUEEZE" mode is effective only when the VIDEO/DSC Switch is set to "VIDEO".

: Factory-preset

VMD6 EN(02/39)

۲

24

28/08/00, 15:48

۲

EN25

۲

_		l .	_
MENU	WIND CUT	ON	Helps cut down on noise created by wind. " (appears. The quality of the sound will change. This is normal.
		OFF	Disengages the function which cuts down on noise created by wind.
MA	CAM RESET	CANCEL	Does not reset all settings to the factory-preset.
Σ		EXECUTE	Resets all settings to the factory-preset.
DISPLAY MENU	ON SCREEN	LCD	Keeps the camcorder's display (except the date, time and time code) from appearing on the connected TV screen.
		LCD/TV	Makes the camcorder's display appear on screen when the camcorder is connected to a TV.
		SIMPLE	Keeps the indications (except the tape running indicator, warnings, date, time, time code, etc.) from appearing in the camcorder. Also keeps the camcorder's display (except the date, time and time code) from appearing on the connected TV screen.
	DATE/ TIME	ON	The date/time is always displayed.
_		OFF	The date/time does not appear.
0	TIME CODE	ON	Time code is displayed on the camcorder and on the connected TV. Frame numbers are not displayed during recording.
		OFF	Time code is not displayed.
	CLOCK ADJ.	Allows you to set the current date and time (IF pg. 9).	
NU	QUALITY	Allows you to set the Picture Quality mode (FINE and STANDARD) depending on your preference (IF pg. 12).	
	REC SELECT	⇒ ∞	When Snapshot recording is performed with the VIDEO/DSC Switch set to "VIDEO", still images are recorded only onto the tape.
		→	When Snapshot recording is performed with the VIDEO/DSC Switch set to "VIDEO", still images are recorded not only onto the tape but also in the MultiMediaCard.

: Factory-preset

NOTES:

The "MANUAL MENU" settings are effective only when the Power Switch is set to "M".
"DISPLAY MENU" functions which are set when the Power Switch is set to "M" are also applied when the DISPLAY MENO functions which are set when the Power Switch is set to "m are also applied when the Power Switch is set to "LAM" (□ pg. 32). "CLOCK ADJ." only appears when the Power Switch is set to "M".
The "DISPLAY MENU" settings are effective even when the Power Switch is set to " M".
The "ON SCREEN" setting can also be changed by pressing the DISPLAY Button on the remote control (provided) (□ pg. 41, 44, 53).

25

26 EN RECORDING Advanced Features For Video And D.S.C. (cont.)

3

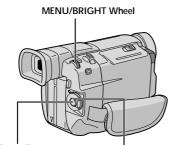
L

Fade/Wipe Effects

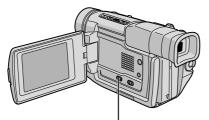
These effects let you make pro-style scene transitions. Use them to spice up the transition from one scene to the next. You can also vary transitions from scene to scene.

IMPORTANT:

Some Fade/Wipe Effects cannot be used with certain modes of Programme AE with special effects (II) pg. 28). If an unusable Fade/Wipe Effect is selected, its indicator blinks or goes out.



Recording Start/Stop Button Power Switch



VIDEO/DSC Switch (Open the LCD monitor to access this switch.)

To Deactivate The Selected Effect . . .

.... select "OFF" in step 4.

NOTES:

- You can extend the length of a Fade or Wipe by pressing and holding the Recording Start/ Stop Button.
- If the power is turned off after a scene is finished recording, the stored point is erased, disabling the Picture Wipe/Dissolve combination. When this happens, the Picture Wipe/ Dissolve indicator blinks. Also note that power shuts off automatically if 5 minutes elapse in the Record-Standby mode.
- The sound at the end of the last recorded scene is not stored.

 $\begin{array}{c} \mathsf{FADE/WIPE} \ \mathsf{SELECTION} \ (\ \underbar{WH} \ , \ \underbar{BK} \ , \ \underbar{M} \ , \ \underbar{BW} \ , \\ \fbox{\ } \ , \ \boxdot{\ } \ , \ \underbar{M} \ , \ \mathtt{M} \ , \ \ , \ \mathtt{M} \ , \ \mathtt{M} \ , \ \mathtt{M} \ , \ \ , \ \mathtt{M} \ , \ \ ,$

Fade or Wipe works when video recording is started or when you stop recording.

Set the **VIDEO/DSC** Switch to "VIDEO", then set the Power Switch to "**M**" while pressing down the Lock Button located on the switch.

Press MENU/BRIGHT. The Menu Screen appears.

Rotate MENU/BRIGHT to select " 🖬 ", then press it.

- Rotate **MENU/BRIGHT** to select the desired function, then press it. Selection is complete.
- The FADER/WIPE Menu disappears and the effect is reserved. The indicator representing the selected effect appears.

Press the Recording Start/Stop Button to activate the Fade-in/out or Wipe-in/out.

PICTURE WIPE OR DISSOLVE SELECTION $(\boxdot_P, \square_P, \square_P, \boxdot_P, \boxdot_P)$ and \boxdot_P)

The Picture Wipe or Dissolve works when video recording is started.

Follow steps 1 through 4 above.

If you select Picture Wipe/Dissolve during recording . . .

.... press the Recording Start/Stop Button when one scene is finished. The point at which the scene ended is stored in memory.

If you select Picture Wipe/Dissolve during Record-Standby mode . . .

.... press the Recording Start/Stop Button to start recording and press it again when one scene is finished. The point at which the scene ended is stored in memory.

If you select Picture Wipe/Dissolve during Record-Standby mode after performing a Picture Wipe/ Dissolve . . .

- the point at which the scene ended is already stored in memory.
- 3 If you start recording a new scene within 5 minutes of the end of the previous recording (without having turned the camcorder's power off), the previous scene wipes out, revealing the new scene.

VMD6 EN(02/39)

26

EN 27

-•

Menu	Effect
WH FADER - WHITE	Fade in or out with a white screen.
BK FADER — BLACK	Fade in or out with a black screen.
FADER — MOSAIC	Fade in or out with a full-screen mosaic effect.
B.W FADER — B.W	Fade in to a colour screen from a black and white screen, or fade out from colour to black and white.
WIPE — CORNER	Wipe in on a black screen from the upper right to the lower left corner, or wipe out from lower left to upper right, leaving a black screen.
	The scene starts in the centre of a black screen and wipes in toward the corners, or comes in from the corners, gradually wiping out to the centre.
WIPE — SLIDE	Wipe in from right to left, or wipe out from left to right.
♦ WIPE — DOOR	Wipe in as the two halves of a black screen open to the left and right, revealing the scene, or wipe out and the black screen reappears from left and right to cover the scene.
WIPE - SCROLL	The scene wipes in from the bottom to the top of a black screen, or wipes out from top to bottom, leaving a black screen.
► WIPE — SHUTTER	Wipe in from the centre of a black screen toward the top and bottom, or wipe out from the top and bottom toward the centre leaving a black screen.
	The new scene gradually appears as the old one gradually disappears.
	The new scene wipes in over the previous one from the upper right corner to the lower left corner.
	The next scene gradually wipes in from the centre of the screen toward the corners, covering the previous scene.
	The next scene gradually wipes in over the previous one from right to left.
	The previous scene wipes out from the centre to the right and left, like a door being pushed open to reveal the next scene.
	The new scene wipes in over the last one from the bottom of the screen to the top.
	The new scene wipes in over the previous one from the centre toward the top and bottom of the screen.
?R RANDOM	When this function is activated, the camcorder randomly selects the effect used in scene transition (from \mathbb{BW} , \mathbb{K} , \mathbb{W} , \mathbb{Bx} , \square , \land , \square

۲

VMD6 EN(02/39)

--

27

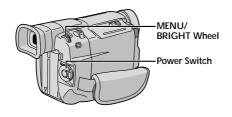
28/08/00, 15:49

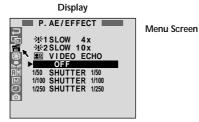
۲

28 EN RECORDING Advanced Features For Video And D.S.C. (cont.)

IMPORTANT:

Some modes of Programme AE with special effects cannot be used with certain Fade/Wipe Effects (III pg. 27). If an unusable mode is selected, its indicator blinks or goes out.





Programme AE With Special Effects

Set the Power Switch to " \mathbb{M} " while pressing down the Lock Button located on the switch.

Press MENU/BRIGHT. The Menu Screen appears.

Rotate MENU/BRIGHT to select " 🗃 ", then press it.

Rotate MENU/BRIGHT to select the desired mode,

- then press it. Selection is complete.
- The P.AE/EFFECT Menu disappears and the selected mode is activated. The selected mode indicator appears.

To Deactivate The Selected Mode select "OFF" in step 4.

NOTE:

Programme AE with special effects can be changed during recording or during Record-Standby.



🍤 TWILIGHT

Makes evening scenes look more natural. White Balance ($\square P$ pg. 30) is initially set to $\dot{\clubsuit}$, but can be changed to your desired setting. When Twilight is chosen, the camcorder automatically adjusts the focus from approx. 10 m to infinity. From less than 10 m, adjust the focus manually.

🖌 SEPIA

Recorded scenes have a brownish tint like old photos. Combine this with the Cinema mode for a classic look.

B/W MONOTONE

Like classic black and white films, your footage is shot in B/W. Used together with the Cinema mode, it enhances the "classic film" effect.

📽 CLASSIC FILM

Gives recorded scenes a strobe effect.

Your recording looks like a series of consecutive snapshots.

VIDEO ECHO

Adds a "ghost" to the subject, giving your recording a "fantasy" feeling. Zoom magnification of over 10X is not available.

SLOW (Slow Shutter)

Lights dark subjects or areas even brighter than they would be under good natural lighting. Use "SLOW" only in dark areas.

¥€1 SLOW 4X

The Shutter Speed is set to 1/12.5th of a second to quadruple the sensitivity.

柒2 SLOW 10X

The Shutter Speed is set to 1/5th of a second to provide 10 times the sensitivity.

NOTES:

- When using "SLOW", the image takes on a strobe-like effect.
- If the manual focus indicator blinks when "SLOW" is used, adjust focus manually and use a tripod.

SHUTTER (Variable Shutter Speed)

1/50-The shutter speed is fixed at 1/50th of a second. Black bands that usually appear when shooting a TV screen become narrower.

1/100-The shutter speed is fixed at 1/100th of a second. The flickering that occurs when shooting under a fluorescent light or mercury-vapour lamp is reduced. 1/250, 1/500 -These settings allow fast-moving images to be captured one frame at a time, for vivid, stable slow-motion playback. The faster the shutter speed, the darker the picture becomes. Use the shutter function under good lighting conditions.

VMD6 EN(02/39)

28

Exposure Control

Manual exposure adjustment is recommended in the following situations:

- When shooting using reverse lighting or when the background is too bright.
- When shooting on a reflective natural background such as at the beach or when skiing.
- When the background is overly dark or the subject light.

Set the Power Switch to " \mathbb{M} " while pressing down the Lock Button located on the switch.

Press **MENU/BRIGHT**. The Menu Screen appears.

- **3** Rotate **MENU/BRIGHT** to select " 🖾 ", then press it.
- Rotate **MENU/BRIGHT** to select "MANUAL", then press it. The Menu Screen disappears. "EXP." and the highlight bar on the exposure control indicator are displayed.
- **5** Rotate **MENU/BRIGHT** towards "+" to brighten the image, or towards "-" to darken the image. (maximum ± 6)

Press **MENU/BRIGHT**. Exposure adjustment is complete. The indication "EXP." and the highlight bar on the exposure control indicator go out.

To Return To Automatic Exposure Control . . .

... select "AUTO" in step 4. Or, set the Power Switch to "

NOTE:

- To Brighten The Subject Quickly . . .
- press **BACKLIGHT**. A is displayed and the subject is brightened. If pressed again, a disappears and the brightness returns to the previous level.
- +3 exposure has the same effect as the **BACKLIGHT** Button.
- Using **BACKLIGHT** may cause the light around the subject to become too bright and the subject to become white.
- Backlight compensation is also available when the Power Switch is set to " <a>[".
- Pressing the **BACKLIGHT** button has no effect when the exposure **S** is set to "MANUAL" and the Power Switch is set to "**M**".

Iris Lock

Use this function in the following situations: • When shooting a moving subject.

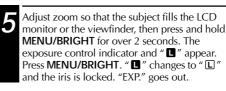
• When the distance to the subject changes (so its size in the LCD monitor or the viewfinder changes), such as when the subject is backing away.

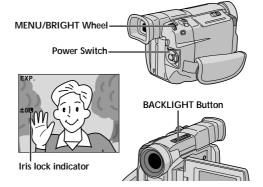
 $_{\text{EN}}29$

- When shooting on a reflective natural background such as at the beach or when skiing.
- When shooting objects under a spotlight.
- When zooming.

When the subject is close, keep the iris locked. Even when the subject moves away from you, the image will not darken or brighten.

Before the following steps, perform steps 1 through 4 of "Exposure Control".





To Return To Automatic Iris Control . .

.... rotate **MENU/BRIGHT** to display "AUTO" then press it in step **4**. The exposure control indicator and " **1**" disappear. Or, set the Power Switch to " **1**".

To Lock The Exposure Control And The Iris . .

.... after step 4, adjust the exposure rotating MENU/ BRIGHT. Then lock the iris in step 5. For automatic locking, rotate MENU/BRIGHT to select "AUTO", then press it in step 4. The iris becomes automatic after about 2 seconds.

Iris

Like the pupil of the human eye, it contracts in welllit environments to keep too much light from entering, and dilates in dim environments to allow in more light.

VMD6 EN(02/39)

29

30 EN RECORDING Advanced Features For Video And D.S.C. (cont.)

White Balance Adjustment

A term that refers to the correctness of colour reproduction under various lighting. If the white balance is correct, all other colours will be accurately reproduced.

The white balance is usually adjusted automatically. However, more advanced camcorder operators control this function manually to achieve a more professional colour/tint reproduction.

Set the Power Switch to " \mathbb{M} " while pressing down the Lock Button located on the switch.

2 Press **MENU/BRIGHT**. The Menu Screen appears.

Rotate **MENU/BRIGHT** to select " **M**", then press it. The Menu Screen disappears and "W.BAL" and the currently selected mode are displayed.

- Rotate **MENU/BRIGHT** to select the desired mode.
- "AUTO" White balance is adjusted automatically (factory preset).
- " \bigtriangleup MAN." White balance is set manually. " \doteqdot " – Outdoors on a sunny day.
- "-∕⊷ " Outdoors on a cloudy day.
- " ★ " A video light or similar type of lighting is used.

Press MENU/BRIGHT. Selection is complete.

To Return To Automatic White Balance . . .

. select "AUTO" in step **4**. Or, set the Power Switch to " **▲**".

NOTE:

White balance cannot be used when Sepia or Monotone (I pg. 28) is activated.

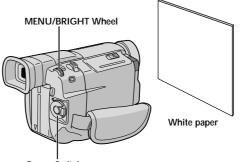
Manual White Balance Operation

Perform Manual White Balance when shooting under various types of lighting.

Follow steps **1** through **4** of the white balance adjustment, and select " MAN.".

Hold a sheet of plain white paper in front of the subject. Adjust zoom or position yourself so that the white paper fills the screen.

- **3** Press **MENU/BRIGHT** until **№** begins blinking. When the setting is completed, **№** stops blinking.
- Press **MENU/BRIGHT**. Only the Manual White Balance indicator 🗠 is displayed.





To Change The Tint For Recording . . .

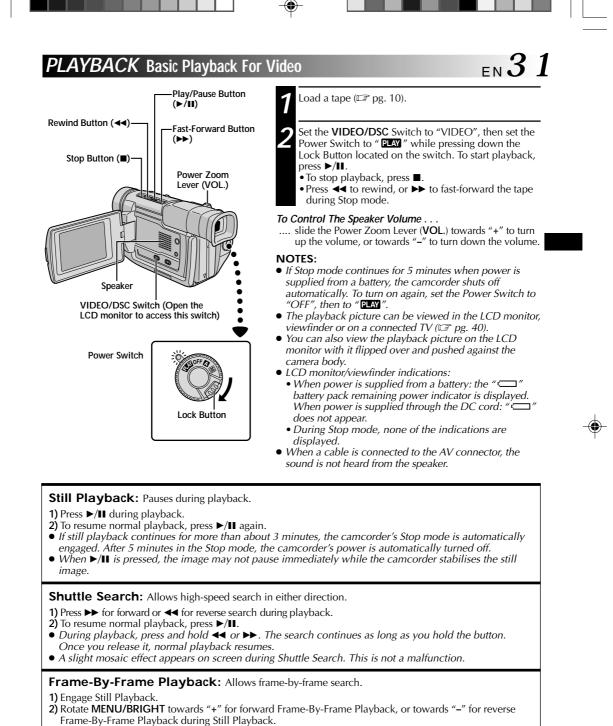
.... in step **2**, substitute coloured paper for white. The white balance is adjusted based on the colour, changing the tint. Red paper = deeper green; blue paper = orange; yellow paper = deeper purple.

NOTES:

- In step 2, it may be difficult to focus on the white paper. In such a case, adjust focus manually (IF pg. 21).
- A subject can be shot under various types of lighting conditions indoors (natural, flourescent, candlelight, etc.). Because the colour temperature is different depending on the light source, the subject tint will differ depending on the white balance settings. Use this function for a more natural result.
- Once you adjust white balance manually, the setting is retained even if the power is turned off or the battery removed.

VMD6 EN(02/39)

30



- To resume normal playback, press ►/II.
- You can also use the provided remote control for Frame-By-Frame Playback (IF pg. 50).

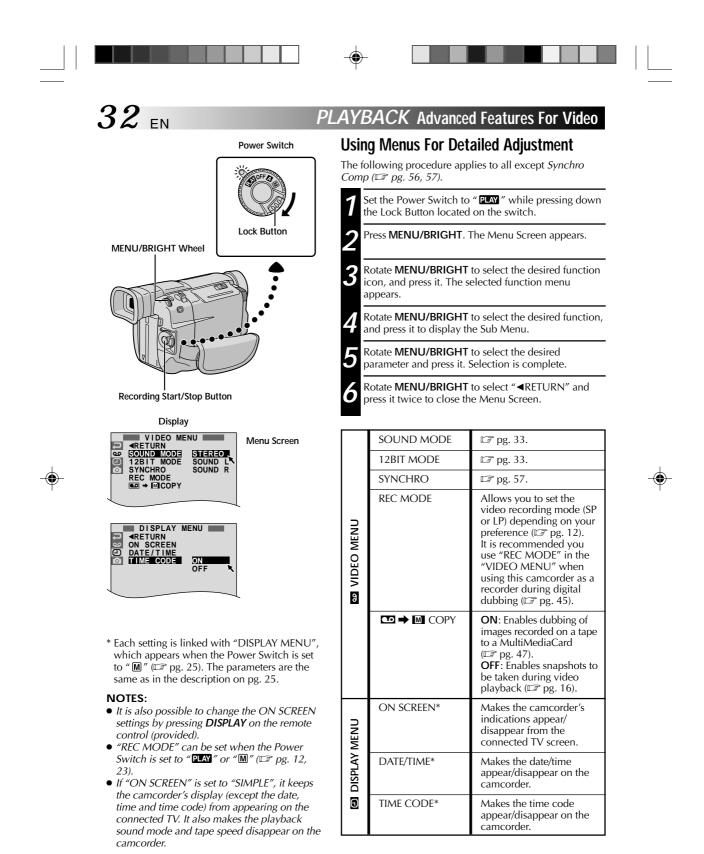
Playback Zoom and Playback Special Effects

Available only with the remote control (provided) (IF pg. 50, 51).

31

VMD6 EN(02/39)

_



VMD6 EN(02/39)

32

•

$_{\text{EN}}33$

Playback Sound

During playback, the camcorder detects the sound mode in which the recording was made, and plays the sound back. Select the type of sound to accompany your playback picture. According to the menu access explanation on pg. 32, select "SOUND MODE" or "12BIT MODE" from the Menu Screen and set it to the desired parameter.

	STEREO	Sound is output on both "L" and "R" channels in stereo.	
SOUND MODE	SOUND L	Sound from the "L" channel is output in stereo.	
	SOUND R	Sound from the "R" channel is output in stereo.	
	SOUND 1	Original sound is output on both "L" and "R" channels in stereo.	
12BIT MODE	SOUND 2	Dubbed sound is output on both "L" and "R" channels in stereo.	
	MIX	Original and dubbed sounds are combined and output in stereo on both "L" and "R" channels in stereo.	

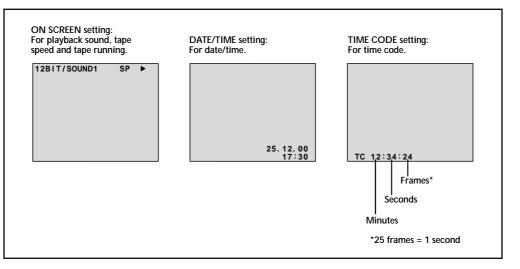
: Factory-preset

NOTES:

- The "SOUND MODE" setting is available for both 12-bit and 16-bit sound. (In previous models' functions, "12-bit" is called "32 kHz" and "16-bit" is called "48 kHz".)
- The camcorder cannot detect the sound mode in which the recording was made during fast-forward or rewind. During playback the sound mode is displayed in the upper left corner.

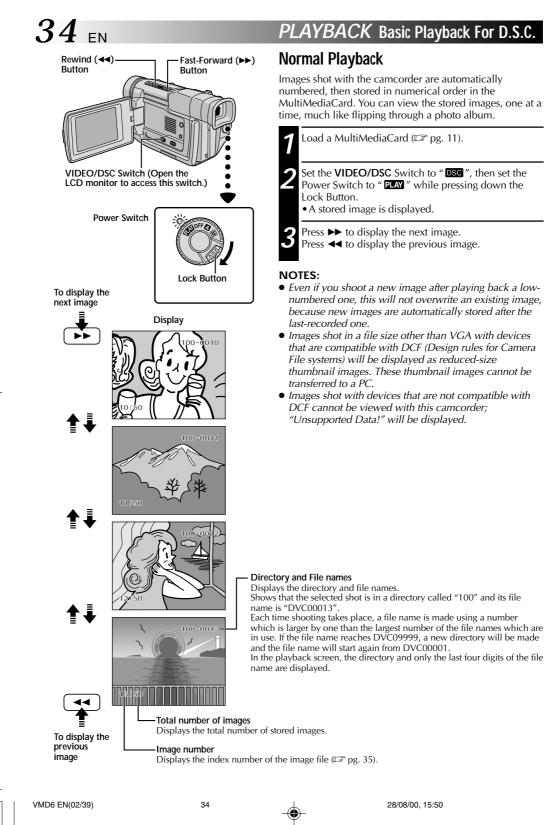


Display



VMD6 EN(02/39)

33



PLAYBACK Basic Playback For D.S.C.

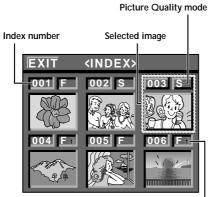
Images shot with the camcorder are automatically numbered, then stored in numerical order in the MultiMediaCard. You can view the stored images, one at a time, much like flipping through a photo album.

- Load a MultiMediaCard (IP pg. 11).
- Set the VIDEO/DSC Switch to "DSC", then set the Power Switch to " PLAY " while pressing down the

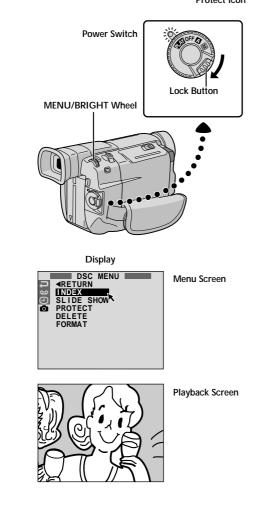
Press ▶▶ to display the next image.

- Even if you shoot a new image after playing back a lownumbered one, this will not overwrite an existing image, because new images are automatically stored after the
- Images shot in a file size other than VGA with devices that are compatible with DCF (Design rules for Camera File systems) will be displayed as reduced-size thumbnail images. These thumbnail images cannot be
- Images shot with devices that are not compatible with DCF cannot be viewed with this camcorder;

en 35



Protect icon

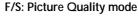


INDEX Screen

The images you shot can be displayed together with their index information. Convenient for checking images shot beforehand, the INDEX Screen also shows the Picture Quality mode as well as which images are protected against accidental erasure.

001: Index number

Index numbers are marked from 001. For example, when 10 images are stored (index number: 001 to 010), if three images with index numbers 002, 004 and 006 are deleted from memory, the remaining images are automatically moved up to fill any gaps in the numerical sequence. Therefore, the number of remaining images is 7, and the new index numbers range from 001 to 007.



Displays the Picture Quality mode of the stored image. There are 2 modes available: FINE and STANDARD (in order of quality) (ICF pg. 12).

🗄 : Protect icon

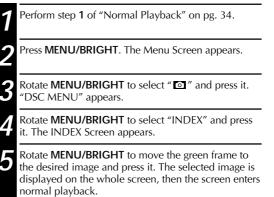
When an image is protected against its accidental erasure, a padlock mark appears next to the Picture Quality mode indicator, and that image cannot be deleted.

Selected Image

An image is framed in green like this when it is selected. Rotate **MENU/BRIGHT** to move the green frame to the desired image.

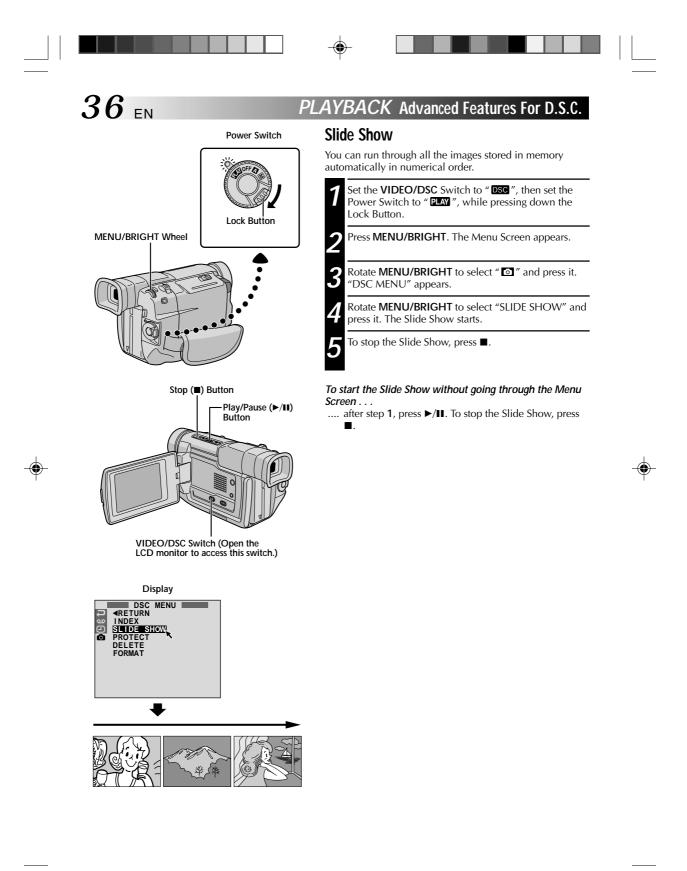
Index Playback

You can view the images stored in memory six at a time. Use this mode when looking for an image you wish to view.



VMD6 EN(02/39)

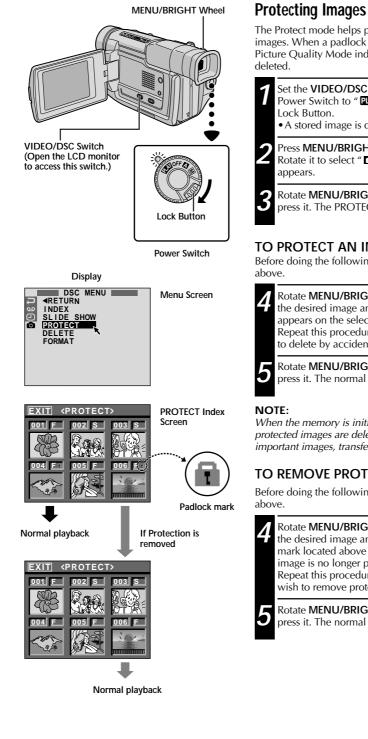
35



VMD6 EN(02/39)

36

EN 37



The Protect mode helps prevent the accidental erasure of images. When a padlock mark is displayed next to the Picture Quality Mode indication, that image cannot be

- Set the VIDEO/DSC Switch to "DSC", then set the Power Switch to " PLAY " while pressing down the
- A stored image is displayed.

Press MENU/BRIGHT. The Menu Screen appears Rotate it to select " I and press it. "DSC MENU"

Rotate MENU/BRIGHT to select "PROTECT" and press it. The PROTECT Index Screen appears.

TO PROTECT AN IMAGE

Before doing the following, perform steps 1 through 3

Rotate MENU/BRIGHT to move the green frame to the desired image and press it. A " 🗊 " padlock mark appears on the selected image. Repeat this procedure for all images you do not wish to delete by accident.

Rotate MENU/BRIGHT upward to select "EXIT" and press it. The normal playback screen appears.

When the memory is initialised or corrupted, even protected images are deleted. If you do not want to lose important images, transfer them to a PC and save them.

TO REMOVE PROTECTION

Before doing the following, perform steps 1 through 3



the desired image and press it. The " $\mathbf{\overline{1}}$ " padlock mark located above the image disappears and the image is no longer protected. Repeat this procedure for all images from which you wish to remove protection.

Rotate MENU/BRIGHT upward to select "EXIT" and press it. The normal playback screen appears.

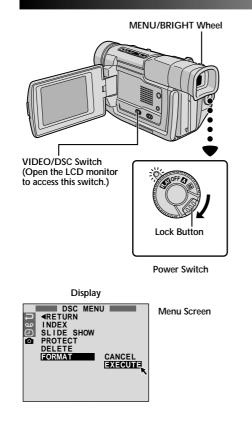
	LAYBACK Advanced Features For D.S.C. (cont.)
MENU/BRIGHT	 Wheel Deleting Images Previously shot images can be deleted either one at a time or all at once. 7 Set the VIDEO/DSC Switch to " ISG ", then set the Power Switch to " ISG ", then set the Power Switch to " ISG ", then set the Lock Button. A stored image is displayed. 2 Press MENU/BRIGHT. The Menu Screen appears. Rotate it to select " I and press it. "DSC MENU" appears.
to access this switch.)	IMAGES STORED IN MEMORY Before doing the following, perform steps 1 through 3 above. Inch Image: A state in the state of the state o
DSC MENU CANCEL EXECUTE	 The " × " disappears. Rotate MENU/BRIGHT upward to select "NEXT" and press it. The Deletion Confirmation Screen appears. Rotate MENU/BRIGHT to select "EXECUTE" and press it. The selected images are deleted and the normal playback screen appears. To cancel deletion, rotate MENU/BRIGHT to select "CANCEL" and press it. TO DELETE ALL IMAGES Before doing the following, perform steps 1 through 3 above.
CAUTION: Do not remove the MultiMediaCard of perform any other operation (such as turning off the camcorder) during dele Also, be sure to use the provided AC F Adapter/Charger, as the MultiMediaCar may be corrupted if the battery becom exhausted during deletion. If the MultiMediaCard becomes corrupted, initialise it. (II) pg. 39)	 • To cancel deletion, rotate MENU/BRIGHT to select • "CANCEL" and press it. • NOTES:

VMD6 EN(02/39)

-•

38

en **39**



Initialising A MultiMediaCard

You can initialise a MultiMediaCard anytime. After initialising, all images and data stored in the MultiMediaCard, including those which have been protected, are cleared.

Set the **VIDEO/DSC** Switch to "**DSC**", then set the Power Switch to "**DAN**", while pressing down the Lock Button located on the switch.

Press MENU/BRIGHT. The Menu Screen appears.

Rotate **MENU/BRIGHT** to select "FORMAT" and press it. The Sub Menu appears.

Rotate **MENU/BRIGHT** to select "EXECUTE" and press it. The MultiMediaCard is initialised. When initialisation is finished, "NO STORED IMAGE" appears.

• To cancel initialisation, rotate **MENU/BRIGHT** to select "CANCEL" and press it.

CAUTION:

3

4

6

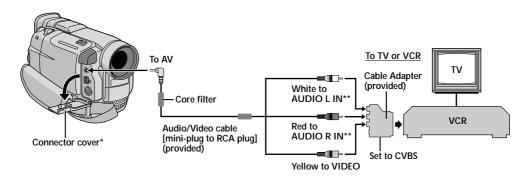
Do not perform any other operation (such as turning off the camcorder) during initialisation. Also, be sure to use the provided AC Power Adapter/Charger, as the MultiMediaCard may be corrupted if the battery becomes exhausted during initialisation. If MultiMediaCard becomes corrupted initialise it.

CONNECTIONS Basic Connections

۲

These are some basic types of connections. When making the connections, refer also to your VCR and TV instruction manuals.

A. Connection to a TV or VCR equipped with a SCART connector compatible only with regular video signal



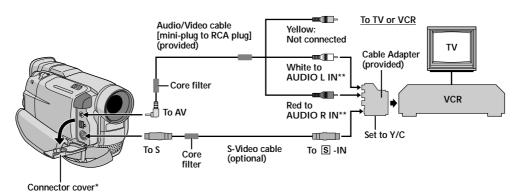
* When connecting the cables, open this cover.

40EN

۲

** The Audio cable is not required for watching still images when the VIDEO/DSC Switch is set to " DSC ".

B. Connection to a TV or VCR equipped with a SCART connector compatible with Y/C signal



* When connecting the cables, open this cover.

** The Audio cable is not required for watching still images when the VIDEO/DSC Switch is set to " DSC ".

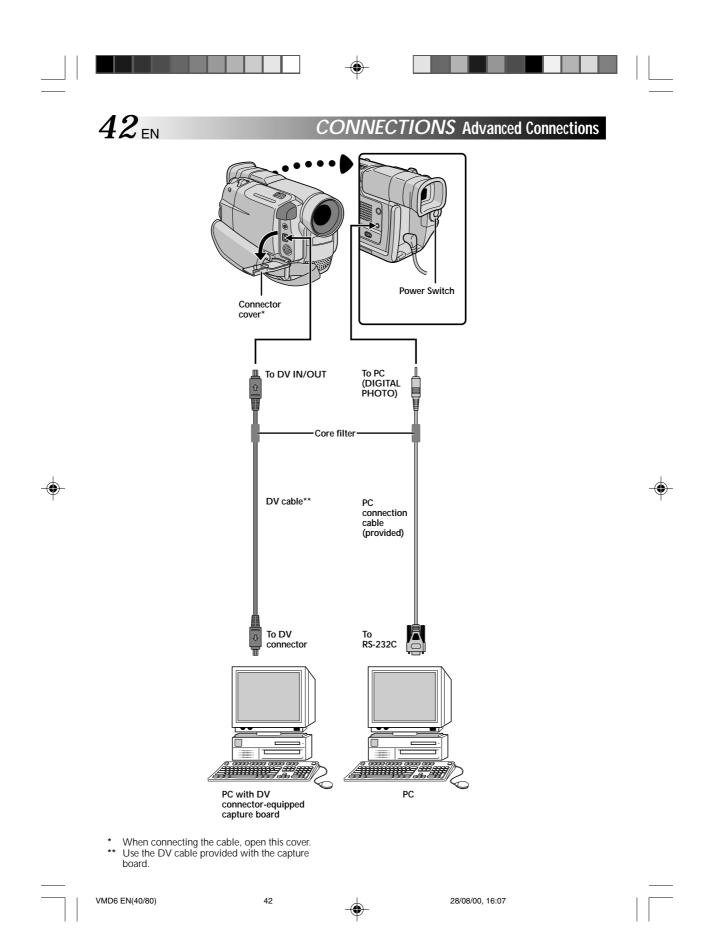
VMD6 EN(40/80)

40

		EN 4 .	
C. Connection to a TV	or VCR equipped with an S-	VIDEO IN and/or A/V input (RCA type) connectors	
When connecting the ca The Audio cable is not re images when the VIDEO		When an S-Video cable is not used.	
	Audio/Video cable [mini-plug to RCA plug (provided)	10	
	Core filter	White to AUDIO L IN** Red to	
	To S Cours filture S-Vio	AUDIO R IN**	
Connector cover*	To S Cours filture S-Vio	AUDIO R IN** deo cable To S-VIDEO IN	
Connector cover*	To S Cours filture S-Vio	AUDIO R IN** deo cable ional) VCR VCR	
	To S Core filter (opti	AUDIO R IN** deo cable ional) <u>To TV or VCR</u> To choose whether or not the following displays	
Connector cover*	To S Core filter (opti	AUDIO R IN** deo cable to S-VIDEO IN To TV or VCR To choose whether or not the following displays appear on the connected TV • Date/Time	
1 Make sure all units a 2 Connect the camcord	To S Core filter (option of filter to a TV or VCR as	AUDIO R IN** deo cable to S-VIDEO IN To TV or VCR To choose whether or not the following displays appear on the connected TV • Date/Time set "DATE/TIME" to "ON" or "OFF" in the Menu Screen (IP pg. 32).	
1 Make sure all units a 2 Connect the camcord shown in the illustrat If using a VCR go	To S Core filter (option of the second secon	AUDIO R IN** deo cable to S-VIDEO IN To TV or VCR To choose whether or not the following displays appear on the connected TV • Date/Time set "DATE/TIME" to "ON" or "OFF" in the Menu Screen (III) pg. 32). • Time Code set "TIME CODE" to "ON" or "OFF" in the	
 Make sure all units a Connect the camcord shown in the illustrat <i>If using a VCR ga If not go to step</i> Connect the VCR out 	To S Core filter S-Via (option for the second seco	AUDIO R IN** VCR deo cable ional) To S-VIDEO IN To to s-VIDEO IN To to or VCR To choose whether or not the following displays appear on the connected TV • Date/Time set "DATE/TIME" to "ON" or "OFF" in the Menu Screen (II) pg. 32). • Time Code set "TIME CODE" to "ON" or "OFF" in the Menu Screen (III) pg. 32). • Playback Sound Mode, Tape Speed And Tape Running Displays for video playback	
 Make sure all units a Connect the camcord shown in the illustrat <i>If using a VCR go If not go to step</i> Connect the VCR our referring to your VCF 	To S Core filter (option of the second secon	AUDIO R IN** VCR deo cable ional) To S-VIDEO IN To to s-VIDEO IN To the second colspan="2">To TV or VCR To choose whether or not the following displays appear on the connected TV • Date/Time set "DATE/TIME" to "ON" or "OFF" in the Menu Screen (III) pg. 32). • Time Code set "TIME CODE" to "ON" or "OFF" in the Menu Screen (III) pg. 32). • Playback Sound Mode, Tape Speed And Tape	

- When connecting the cables, make sure to connect the ends with a core filter to the camcorder. The core filter reduces interference.
- To monitor the picture and sound from the camcorder without inserting a tape or MultiMediaCard, set the camcorder's Power Switch to " A " or " M ", then set your TV to the appropriate input mode.
 Make sure you adjust the TV sound volume to its minimum level to avoid a sudden burst of sound when the
- camcorder is turned on.
- If you have a TV or speakers that are not specially shielded, do not place the speakers adjacent to the TV as interference will occur in the camcorder playback picture.
- Set the video out select switch of the cable adapter as required: Y/C : When connecting to a TV or VCR which accepts Y/C signals and uses an S-Video cable. CVBS : When connecting to a TV or VCR which does not accept Y/C signals and uses an audio/video cable.

41



Connection To A Personal Computer

This camcorder can transfer still images to a PC by using the provided software when connected as shown in the illustration. It is also possible to transfer still images to a PC with a DV connector-equipped capture board installed.

1	Make sure the camcorder and PC are turned off.
	Connect the camcorder to your PC using the appropriate cable as shown in the illustration.
	Turn the comporter's Dower Switch to "DLAY" while

3 Turn the camcorder's Power Switch to "PLAY" while pressing down the Lock Button located on the switch and turn on the PC.

NOTES:

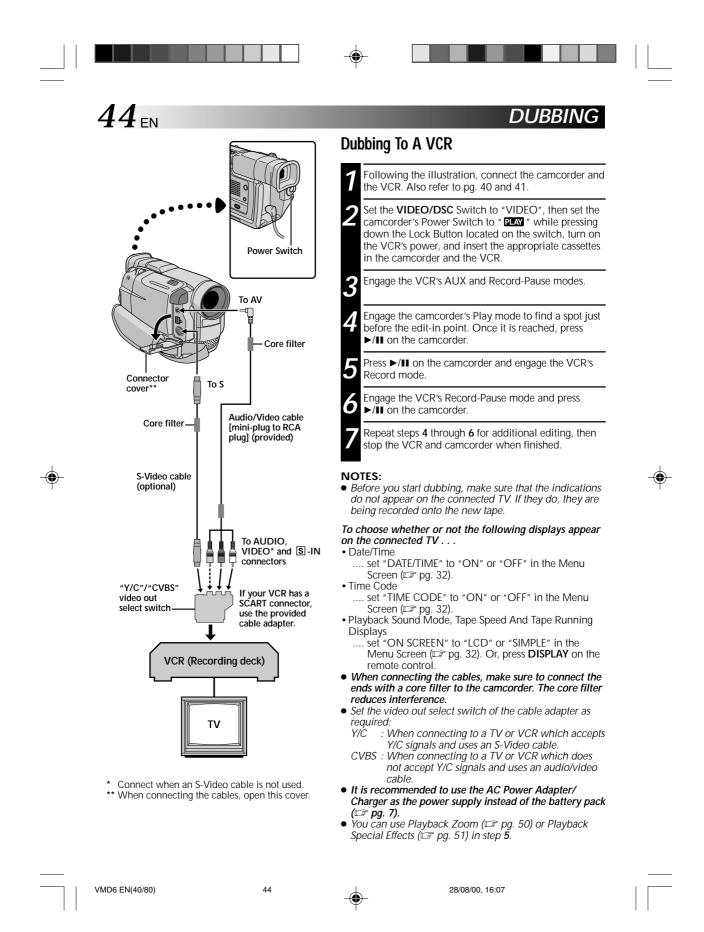
- It is recommended to use the AC Power Adapter/ Charger as the power supply instead of the battery pack (III) pg. 7).
- Never connect the PC connection cable and the DV cable simultaneously to the camcorder. Connect only the cable you wish to use to the camcorder.
- The date/time information cannot be captured into the PC.
- Refer to the instruction manuals of the provided Software.
- Also refer to the manufacturer's instruction manual for the DV connector-equipped capture board.

VMD6 EN(40/80)

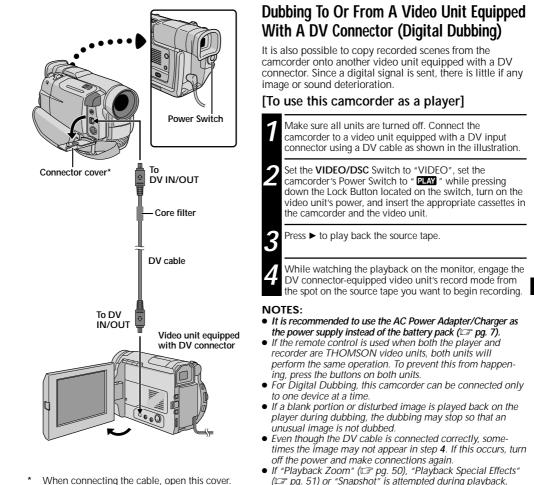
43

28/08/00, 16:07

EN 43



$_{\text{EN}}45$



off the power and make connections again. If "Playback Zoom" (III" pg. 50), "Playback Special Effects" (III" pg. 51) or "Snapshot" is attempted during playback, only the original playback image recorded on the tape is output from the DV OUT connector.

To Use This Camcorder As A Recorder . . .

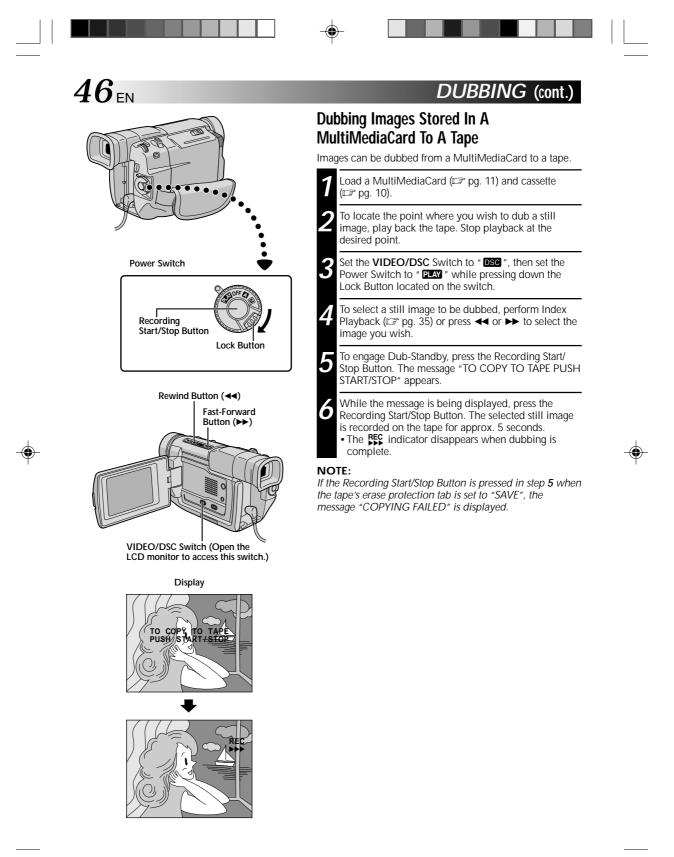
- 1. Turn the Power Switch to " PLAY " while pressing down the Lock Button located on the switch. 2. Set "REC MODE" to "SP" or "LP" in the Menu Screen (P pg. 32).
- 3. Connect the DV cable as shown in the illustration and load a cassette to record on.
- Press the Recording Start/Stop button to engage the Record-Pause mode. "DV. IN" appears on the screen.
 Press the Recording Start/Stop button to start recording. "DV. IN" changes to "DVIN".
 Press the Recording Start/Stop button again to engage the Record-Pause mode. "DVIN" returns to "DV. IN".
- NOTES:

Digital Dubbing is performed in the sound mode recorded on the original tape, regardless of the current "SÕUND MOĎE" setting (🖙 pg. 23).

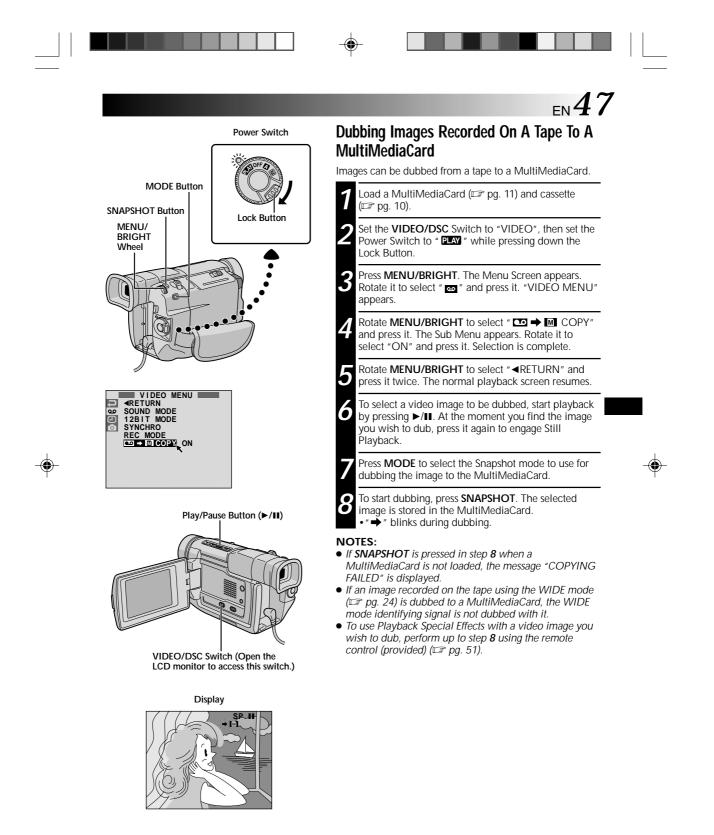
During Digital Dubbing, no signals are output from the AV output connector.

45

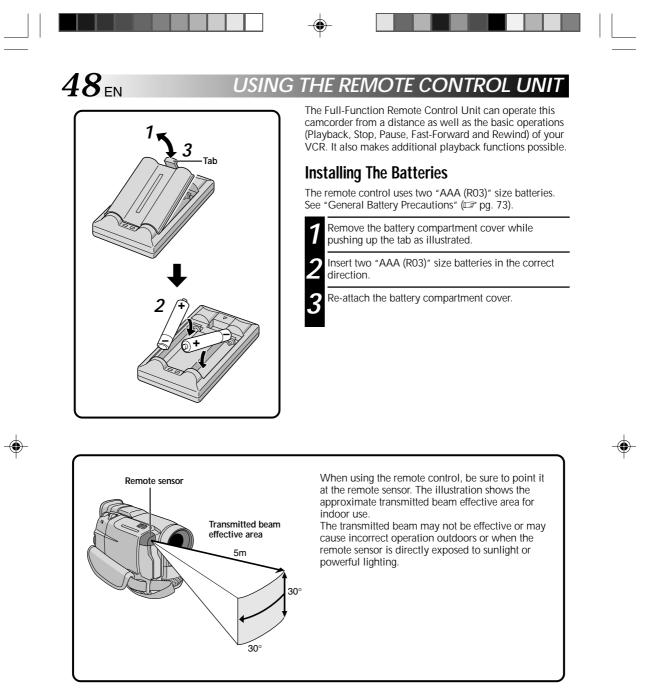
VMD6 EN(40/80)



46



47

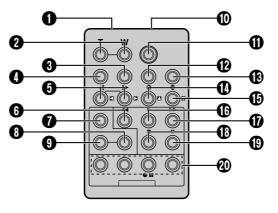


D)

48



EN **49**



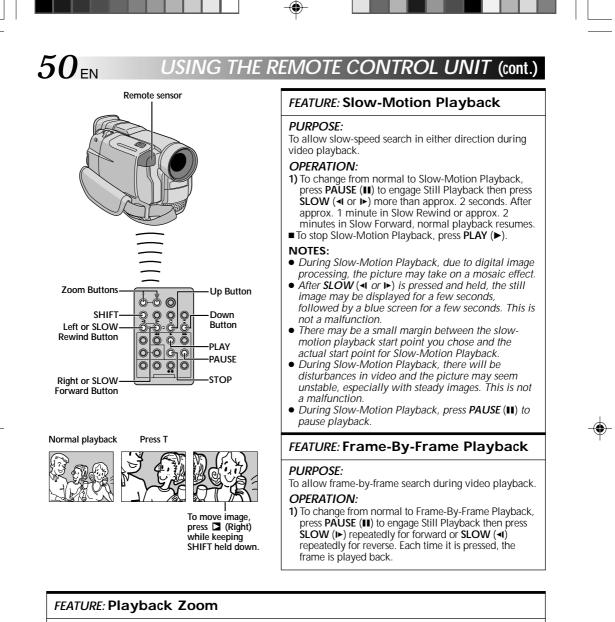
	Functions		
Buttons	With the camcorder's Power Switch set to the camera position (" ▲ " or " ₪ ").	With the camcorder's Power Switch set to " PLAY ".	
Infrared beam transmitting window	Transmits the beam signal.		
2 Zoom (T/W) Buttons	Zoom in/out (🖙 pg. 18)	Zoom in/out (🖙 pg. 50)	
DISPLAY Button	_	Ľ? pg. 41, 44, 53	
SHIFT Button	_	<i>⊑</i> ₹ pg. 50, 52	
SLOW Rewind/Forward Buttons Left/Right Buttons		≌ pg. 50 ≌ pg. 50	
REW Button	_	 Rewind/Reverse Shuttle Search on a tape (ICF pg. 31) Displays previous image in a MultiMediaCard (ICF pg. 34) 	
FADE/WIPE Button	_	<i>⊑</i> ₹ pg. 54	
B EFFECT ON/OFF Button	_	🖙 pg. 51	
S EFFECT Button	_	🖙 pg. 51	
PAUSE IN Connector	_	<i>⊑</i> ₹ pg. 53	
START/STOP Button	Functions the same as the Recording Start/Stop Button on the camcorder.		
MBR SET Button	— 🖉 pg. 52		
SNAPSHOT Button	Functions the same as SNAPSHOT on	the camcorder.	
Up Button INSERT Button*		≝ pg. 50	
Down Button A. DUB Button		にす pg. 50 にす pg. 58	
PLAY Button	-	Starts Playback of a tape (IF pg. 31) Starts Slide Show (IF pg. 36)	
FF Button	_	 Forward/Forward Shuttle Search on a tape (IIF pg. 31) Displays next image in a MultiMediaCard (IIF pg. 34) 	
STOP Button		Stops the tape (IIF pg. 31) Stops Slide Show (IIF pg. 36)	
PAUSE Button		Pauses the tape (IIF pg. 50)	
R.A.EDIT Buttons	_	<i>⊑</i> ₹ pg. 52 – 57	

* This function is unavailable with this camcorder.

VMD6 EN(40/80)

۲

49



PURPOSE:

To magnify the recorded image up to 10X at any time during playback.

OPERATION:

- Press PLAY (►) to find the scene of interest.
 Press the Zoom Buttons (T/W) on the remote control. Make sure the remote control is pointed at the camcorder's remote sensor. Pressing T zooms in.
- 3) You can move the image on screen around to find a particular portion of the picture. While holding down SHIFT, press (Left), (Right), (Up) and (Down).
 To end zoom, press and hold W until magnification returns to normal. Or, press STOP (■) and then press
- **PLAY** (►).

NOTES:

• Zoom can also be used during slow-motion and still playback.

50

• Due to digital image processing, the quality of the image may suffer.

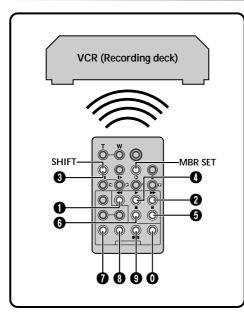
VMD6 EN(40/80)

PLAYBACK EFFECT PLAYBACK EFFECT Select	FEATURE: Playback Special Effects
DFF 1 1 CLASSIC FILM 2 BW MONOTONE 3 2 SEPIA 4 STROBE 5 20 VIDEO ECHO	 PURPOSE: To allow you to add creative effects to the video playback image. OPERATION: 1) To start playback, press PLAY (►). 2) Point the remote control at the camcorder's remote sensor and press EFFECT. The PLAYBACK EFFECT
Remote sensor	 Select Menu appears. 3) Move the highlight bar to the desired effect by pressing EFFECT. The selected function is activated and after 2 seconds the menu disappears. To deactivate the selected effect, press EFFECT ON/OFF on the remote control. Pressing it again reactivates the selected effect. To change the selected effect, repeat from step 2 above.
	 NOTES: When some Playback Special Effects are used, the Multi-Analyser 4 and Multi-Analyser 9 Snapshot modes (IIF) pg. 16) are not available. The effects that can be used during playback are Classic Film, Monotone, Sepia, Strobe and Video Echo. The effects work the same in playback as they did in recording. Refer to page 28 for more information.

--

۲

USING THE REMOTE CONTROL UNIT (cont.)



VCR CODE LIST

۲

 52_{EN}

VCR BRAND NAME	BUTTONS (A) (B)	VCR BRAND NAME	BUTTONS (A) (B)
AKAI		PHILIPS	000
BLAUPUNKT	00		000
FERGUSON	90 90 80		9 6 9 8 8 8
GRUNDIG	00	SANYO	00
HITACHI	00 00	SELECO, BEX	
JVC A B C	00 00 00	SHARP	00
MITSUBISHI		SONY	6 0 6 0 8 9
NEC	00		00
PANASONIC		THOMSON, TELEFUNKEN, SABA, NORDMENDE	
	9 4 1 8	TOSHIBA	6 9 6 0

Random Assemble Editing [R.A.Edit]

Create edited videos easily using your camcorder as the source player. You can select up to 8 "cuts" for automatic editing, in any order you like. R.A.Edit is more easily performed when the MBR (Multi-Brand Remote) is set to operate with your brand of VCR (see VCR CODE LIST), but can also be performed by operating the VCR manually.

Before operation, make sure the batteries are installed in the remote control (\mathbb{CP} pg. 48).

SET REMOTE/VCR CODE

- Turn off the power to the VCR and point the remote towards the VCR's infrared sensor. Then, referring to the VCR CODE LIST, press and hold **MBR SET**, and press button (A) and then (B). The code is automatically set once you release **MBR SET**, and the VCR's power comes on.
- 2 Make sure the VCR's power is on. Then, while holding **SHIFT**, press the button on the remote for the desired function. The functions the remote can control are PLAY, STOP, PAUSE, FF, REW and VCR REC STBY (you do not need to press **SHIFT** for this one).

You are now ready to try Random Assemble Editing.

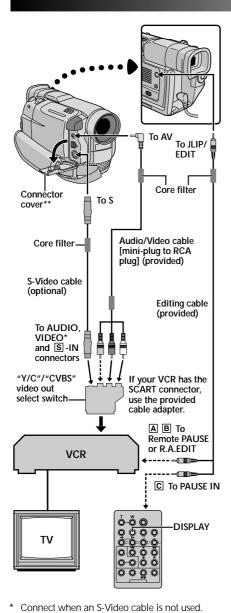
IMPORTANT

Although the MBR is compatible with THOMSON VCRs and those of many other makers, it may not work with yours or may offer limited functions.

NOTES:

- If the VCR's power does not come on in step 1, try another code from the VCR CODE LIST.
- Some brands of VCR do not come on automatically. In this case, turn the power on manually and try step 2.
- If the remote control is not able to control the VCR, use the controls on the VCR.
- When the remote control's batteries run out, the VCR brand you have set will be erased. In that case, replace the old battery with a new one
- In that case, replace the old battery with a new one to reset the VCR brand.

VMD6 EN(40/80)



** When connecting cables, open this cover.

ATTENTION FOR EDITING CABLE Make sure you connect the end with the core filter (plug which has 3 rings around the pin) to the camcorder.

MAKE CONNECTIONS Also refer to pg. 40 and 41.

A THOMSON VCR equipped with a remote pause connector connect the editing cable to the Remote

EN53

PAUSE connector.

B A THOMSON VCR not equipped with a remote pause connector but equipped with an R.A. EDIT connector . . .

... connect the editing cable to the R.A.EDIT connector.

C A VCR other than above . . .

- ... connect the editing cable to the remote control's PAUSE IN connector.
- Insert a recorded tape into the camcorder. Set the **VIDEO/DSC** Switch to "VIDEO", then set the Power Switch to "**PLAY**" while pressing down the Lock Button located on the switch.
- Turn the VCR power on, insert a recordable tape and engage the AUX mode (refer to the VCR's instructions).

NOTES:

 Before Random Assemble Editing, make sure the indications do not appear on the TV monitor. If they do, they will be recorded onto the new tape.

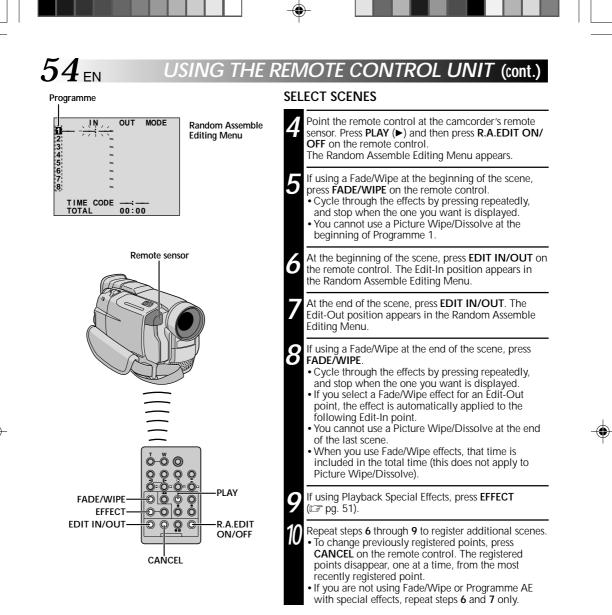
To choose whether or not the following displays appear on the connected TV . . .

- Date/Time
- set "DATE/TIME" to "ON" or "OFF" in the Menu Screen (III) pg. 32).
- Time Code set "TIME CODE" to "ON" or "OFF" in the Menu Screen (III) pg. 32).
- Playback Sound Mode, Tape Speed And Tape Running Displays
 - set "ON SCREEN" to "LCD" or "SIMPLE" in the Menu Screen (I pg. 32). Or, press DISPLAY on the remote control.
- When connecting the cables, make sure to connect the end with a core filter to the camcorder. The core filter reduces interference.
- Set the video out select switch of the cable adapter as required:
- Y/C : When connecting to a TV or VCR which accepts Y/C signals and uses an S-Video cable.
- CVBS : When connecting to a TV or VCR which does not accept Y/C signals and uses an audio/video cable.
- When editing on a VCR equipped with a DV input connector, a DV cable can be connected instead of an S-Video cable and audio/video cable.

CONTINUED ON NEXT PAGE

VMD6 EN(40/80)

53



NOTES:

- When choosing a scene, set Edit-In and Edit-Out points so that there is a relatively large difference between them.
- If the search time for an in-point exceeds 5 minutes, the recording deck's Record-Standby mode will be cancelled and editing will not take place.
- If there are blank portions before or after the Edit-In and Edit-Out points, a blue screen may be included in the edited version.
- Since time codes register time only as accurately as seconds, the time code total time may not match the total programme time exactly.
- Turning off the camcorder's power erases all registered Edit-In and Edit-Out points.
- If you select Sepia or Monotone mode from Programme AE with special effects, you cannot use the Dissolve or Black & White Fader. In this case the Dissolve or Black & White indicator begins blinking. Once the next Edit-In point is registered, the effect is turned off. To combine these effects, use Sepia or Monotone during recording, then use the Dissolve or Black & White Fader during Random Assemble Editing.
- It is not possible to use Fade/Wipe effects and Programme AE with special effects during Random Assemble Editing using a DV cable.

VMD6 EN(40/80)

54

Recording Start/Stop Button

1 ₩ -00:25~ 2 @ 07:18 3 - 03:33~ 5 @ 15:55~ 7 8 ~ ~	OUT MODE 02:05 @P 08:31 05:53 B/W 13:15 0 16:20	Random Assemble Editing Menu
TIME CODE TOTAL	16:30 9:39	





AUTOMATIC EDITING TO VCR

Rewind the tape in the camcorder to the beginning of the scene you want to edit and press **PAUSE** (II).

EN 55

- Point the remote control towards the VCR's remote sensor and press VCR REC STBY (**OII**), or manually engage the VCR's Record-Pause mode.
- 13 Press the Recording Start/Stop Button on the camcorder. Editing proceeds as programmed, right through to the end of the last registered scene.
 - Pressing START/STOP on the remote control does not start editing.
 - When dubbing is complete, the camcorder enters the Pause mode, and the VCR enters its Record-Pause mode.
 - If you do not register an Edit-Out point, the tape will be dubbed all the way to the end automatically.
 - If you operate the camcorder during automatic editing, the VCR will enter its Record-Pause mode and automatic editing will stop.
- 14 Engage the Stop modes for the camcorder and the VCR.

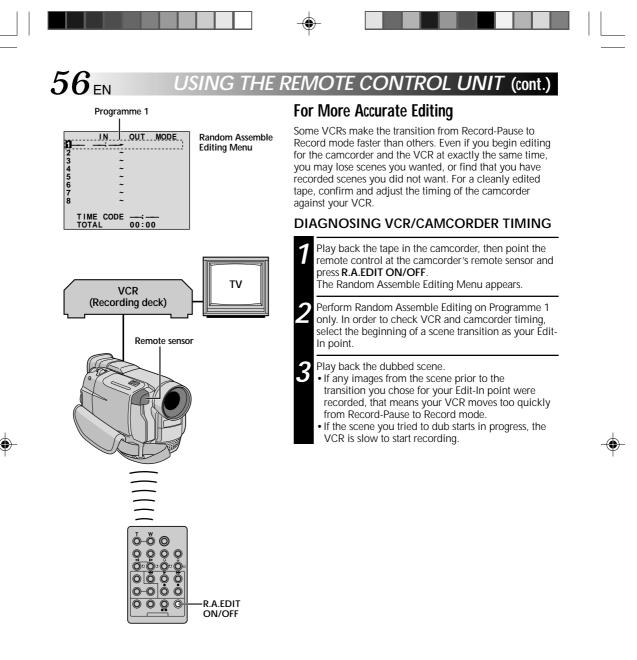
To make the R.A.Edit counter display disappear, press **R.A.EDIT ON/OFF** on the remote control.

NOTES:

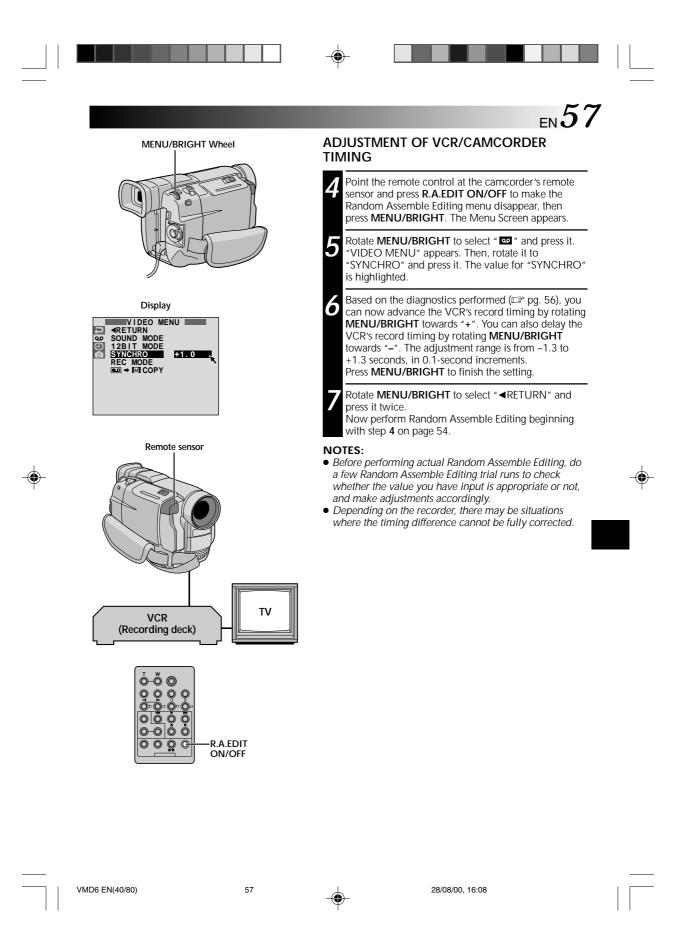
- Pressing R.A.EDIT ON/OFF on the remote control clears all settings registered during Random Assemble Editing.
- When the editing cable is connected to the remote control's Pause In connector during dubbing, make sure the remote control is pointed at the VCR's sensor, and the path between the two is unobstructed.
- Random Assemble Editing may not function properly when using a tape including several duplicated time codes (III) pg. 19).

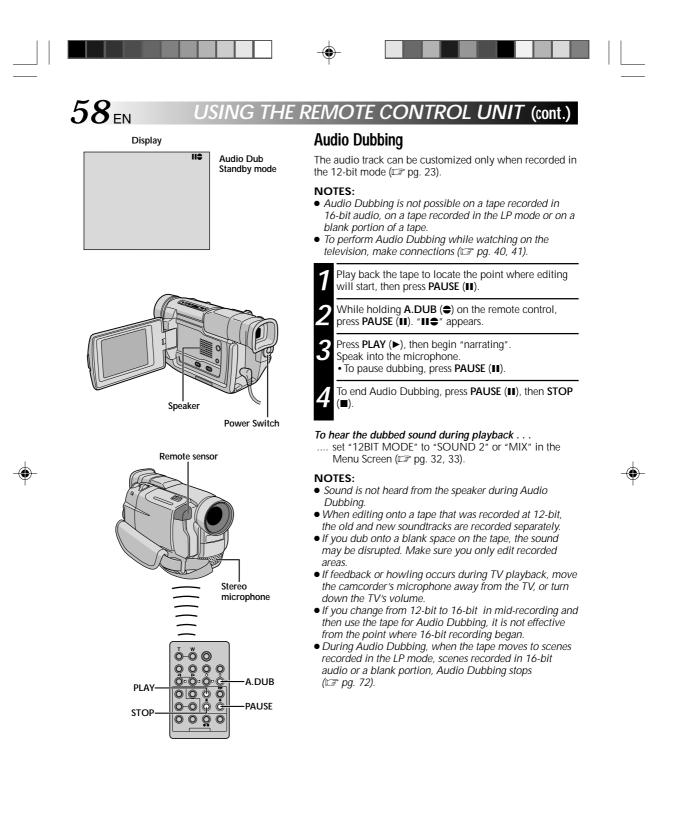
VMD6 EN(40/80)

55



56





TROUBLESHOOTING

EN 59

If, after following the steps in the chart below, the problem still exists, please consult your nearest THOMSON dealer.

The camcorder is a microcomputer-controlled device. External noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC Power Adapter/Battery Charger, etc.) and wait a few minutes; and then re-connect it and proceed as usual from the beginning.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
 No power is supplied. 	 The power is not connected properly. The battery is dead. 	 Connect the AC Power Adapter/Charger securely (Imp pg. 7). Replace the dead battery with a fully charged one (Imp pg. 6, 7).
 "SET DATE/TIME!" appears. 	 The date/time is not set. The built-in clock battery has run out and the previously set date/time has been erased. 	 Set the date/time (I pg. 9). Consult your nearest THOMSON dealer for replacement.
3. Recording cannot be performed.	 For Video Recording — The tape's erase protection tab is set to "SAVE". The Power Switch is set to "EXX" or "OFF". The VIDEO/DSC Switch is set to "DSC ". "TAPE END" appears. The cassette holder cover is open. For D.S.C. Recording — The VIDEO/DSC Switch is set to "VIDEO/". 	 3. • Set the tape's erase protection tab to "REC" (IIF pg. 10). • Set the Power Switch to " ▲ " or " M " (IIF pg. 13). • Set the VIDEO/DSC Switch to "VIDEO". • Replace with new cassette (IIF pg. 10). • Close the cassette holder cover. • Set the VIDEO/DSC Switch to " ISS ".
4. There is no picture.	 The camcorder is not getting power, or some other malfunction exists. 	 • Turn the camcorder's power off and on again (E pg. 13).
 Some functions are not available using MENU/ BRIGHT. 	5. • The Power Switch is set to" " ".	5. • Set the Power Switch to " ∭ " (⊑ rg. 13).
 The focus does not adjust automatically. 	 6. • Focus is set to the Manual mode. • The recording was done in a dark place, or the contrast was low. • The lens is dirty or covered with condensation. 	 6. • Set Focus to the Auto mode (IIF pg. 21). • Clean the lens and check the focus again (IIF pg. 65).

CONTINUED ON NEXT PAGE

VMD6 EN(40/80)

59

-(

TROUBLESHOOTING (c	ont.)
--------------------	-------

BOEN	TROUBL	
SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
 The cassette will not load properly. 	7. The cassette is in the wrong position.The battery's charge is low.	 7. • Set it in the right position (III) pg. 10). • Install a fully charged battery (III) pg. 6, 7).
8. The MultiMediaCard will not load properly.	8. • The MultiMediaCard is in the wrong position.	<i>8.</i> • Set it in the right position (☞ pg. 11).
9. Snapshot mode cannot be used.	9. • The Squeeze mode is selected.	9. • Disengage the Squeeze mode (IFF pg. 24).
10. The colour of Snapshot looks strange.	 10. The light source or the subject does not include white. Or there are various different light sources behind the subject. The Sepia or Monotone mode is activated. 	 10. • Find a white subject and compose your shot so that also appears in the frame (T\$\overline\$ pg. 16, 17). • Turn off Sepia and Monotone (T\$\overline\$ pg. 28).
 The image taken using Snapshot is too dark. 	11. • Shooting was performed under backlit conditions.	11. • Press the BACKLIGHT Button (EP pg. 29).
12. Digital Zoom does not work.	 12. • 10X optical zoom is selected. • "P.AE/EFFECT" is set to "VIDEO ECHO" in the Menu Screen. • Picture Wipe or Dissolve are being used in a scene transition. 	 12. • Set "ZOOM" to "40X" or "100X" in the Menu Screet (IF pg. 23). • Disengage the "VIDEO ECHO" mode (IF pg. 18, 28). • Wait until the Picture Wip or Dissolve effects are completed (IF pg. 18, 26)
13. Programme AE with special effects and Fade/Wipe Effects do not work.	13. • The Power Switch is set to " 🛾 ".	<i>13.</i> • Set the Power Switch to " M " (⊡ " pg. 26, 28).
14. The Black & White Fader does not work.	14. • The Sepia or Monotone mode is activated.	14. • Turn off Sepia and Mono- tone (☞ pg. 26, 28).
15. The Dissolve function does not work.	 15. • The Sepia, Monotone or Slow Shutter mode of Programme AE with special effects is activated. "WIDE MODE" is set to "SQUEEZE" in the Menu Screen. • The previously selected mode of Programme AE with special effects was changed after the last selected scene for editing was registered. 	 15. • Turn off Sepia, Monotone Slow Shutter before adding Dissolve to a scene transition (IIF pg. 26, 28). • Set "WIDE MODE" to "CINEMA" or "OFF" mode (IIF pg. 24). • Make sure you have selected the mode of Programme AE with special effects you want before starting editing (IIF pg. 26, 28).

۲

VMD6 EN(40/80)

--

60

EN 61

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION	
16. The Picture Wipe and Dissolve functions do not work.	 16. The last selected editing scene is ending. At the end of the last selected scene for editing, the Power Switch was set to "OFF". The power is off. 	 16. Select Picture Wipe or Dissolve before beginning recording. The effects are then automatically activated (IIF) pg. 26). Do not turn off the camcorder's power after setting Edit-In and Edit-Out points, as they will all be erased (IIF) pg. 26). The camcorder automati- cally shuts off after 5 minutes have elapsed in the Record- Standby mode. Make sure you continue operations within 5 minutes after engaging Record-Standby mode (IIF) pg. 26). 	
 The picture wipe function does not work. 	 17. • The Slow Shutter mode is activated. "WIDE MODE" is not set to "OFF". 	17. • Disengage the Slow Shutter mode or set "WIDE MODE" to "OFF" before preparing to use the Picture Wipe (IP pg. 24, 26, 28).	
18. Scene transition does not go as expected.	18. • When using "Picture Wipe/ Dissolve" (IF pg. 26), there is a delay of a fraction of a second between the previous record stop-point and the Dissolve start-point. This is normal, but this slight delay becomes especially noticeable when shooting fast-moving subject or during rapid panning.	18.	
19. The Video Echo mode does not work.	 19. The Picture Wipe or Dissolve functions are in use. "WIDE MODE" is set to "SQUEEZE" in the Menu Screen. A Fade-In or Fade-Out is in progress. 	 19. • Set "WIDE MODE" to "CINEMA" or "OFF" mode (III) pg. 24). • Do not try to use the Video Echo mode during a Fade-In or Fade-Out (III) pg. 26, 28). 	
20. Even when Slow Shutter is not selected, the image looks like it is activated.	20 • When shooting in the dark, the unit becomes highly sensitive to light and the image takes on an effect similar to Slow Shutter.	20. • If you want the lighting to look more natural, set GAIN UP to "AGC" or "OFF" in the Menu Screen (III pg. 23).	
21. There is no strobe when the Classic Film or Strobe mode is activated.	21. • The Picture Wipe or Dissolve function is in use.	21. • Do not try to use the Classic Film or Strobe mode during a scene transition (ध्≓ pg. 26, 28).	

۲

CONTINUED ON NEXT PAGE

VMD6 EN(40/80)

--

61

-(

TROUBLESHOOTING (cont.)

-•

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
22. White Balance cannot be activated.	22. • The Sepia or Monotone mode is activated.	22. • Turn off Sepia or Monotone before setting White Balance (ᡅ͡ਡ pg. 28, 30).
23. When shooting a subject illuminated by bright light, vertical lines appear.	23. • This is a result of exceed- ingly high contrast, and is not a malfunction.	23.
24. When the screen is under direct sunlight during shooting, the screen becomes red or black for an instant.	24. • This is not a malfunction.	24.
25. During recording, the date/ time does not appear.	 25. • "DATE/TIME" is set to "OFF" in the Menu Screen. • Self-Recording is performed. 	 25. • Set "DATE/TIME" to "ON" in the Menu Screen (IIF pg. 25). During Self-Recording, the date/time does not appear (IIF pg. 15).
 Images stored in the MultiMediaCard cannot be deleted. 	26. Images stored in the MultiMediaCard are protected.	26. • Remove protection from the images stored in the MultiMediaCard and delete them (IP pg. 37, 38).
27. The indicators and messages do not appear.	27. • "ON SCREEN" is set to "SIMPLE" or "TIME CODE" is set to "OFF" in the Menu Screen.	27. • Set "ON SCREEN" to "LCD" or "LCD/TV" and set "TIME CODE" to "ON" in the Menu Screen (III) pg. 25, 32).
28. Images on the LCD monitor appear dark or whitish.	 28. In places subject to low temperature, images become dark due to the characteristics of the LCD monitor. When this happens, the displayed colours differ from those that are actually recorded. This is not a defect of the camcorder. When the LCD monitor's fluorescent light reaches the end of its service life, images on the LCD monitor become dark. Consult your nearest THOMSON dealer. 	28. • Adjust the brightness and angle of the LCD monitor (Œ₹ pg. 14, 15).
29. The rear of the LCD monitor is hot.	29. • The light used to illuminate the LCD monitor causes it to become hot.	29. Close the LCD monitor to turn it off or set the Power Switch to "OFF", and let the unit cool down.
30. The indicators and the image colour on the LCD monitor are not clear.	<i>30.</i> • This may occur when the surface or the edge of the LCD monitor is pressed.	30.

--

VMD6 EN(40/80)

62 en

--

62

EN 63

--

		ENU
SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
<i>31.</i> The LCD monitor or viewfinder indications blink.	31. • Certain Fade/Wipe effects, certain modes of Programme AE with special effects, "DIS" and other functions that cannot be used together are selected at the same time.	 31. • Re-read the sections covering Fade/Wipe effects, Programme AE with special effects and "DIS" (ICF pg. 24, 26 – 28).
<i>32.</i> Coloured bright spots appear all over the LCD monitor or the viewfinder.	32. • The LCD monitor and the viewfinder are made with high-precision technology. However, black spots or bright spots of light (red, green or blue) may appear constantly on the LCD monitor or the viewfinder. These spots are not recorded on the tape. This is not due to any defect of the unit. (Effective dots: more than 99.99 %)	32.
33. During recording, sound cannot be heard.	33. • This is normal.	33
<i>34.</i> Play, Rewind and Fast- Forward functions do not work.	34. • The Power Switch is not set to " PLAY ".	34. • Set the Power Switch to " ■ (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
<i>35.</i> A MultiMediaCard cannot be played back.	 35. • The VIDEO/DSC Switch is set to "VIDEO". • The Power Switch is set to "	 35. • Set the VIDEO/DSC Switch to " DSC ". • Set the Power Switch to " PLAY ".
<i>36.</i> The tape is moving, but there is no picture.	 36. • Your TV has AV input terminals, but is not set to its VIDEO mode. • The cassette holder cover is open. 	 36. • Set the TV to the mode or channel appropriate for video playback (ICF pg. 40, 41). • Close the cassette holder cover (ICF pg. 10).
<i>37.</i> The LCD monitor image is distorted.	37. • During playback of the unrecorded portion, High- speed Search and still playback, LCD monitor indications appear distorted. This is not a defect.	37.
<i>38.</i> Images on the LCD monitor are jittery.	<i>38.</i> • The speaker volume is too great.	38. • Turn the speaker volume down (도字 pg. 31).
<i>39.</i> Blocks of noise appear during playback, or there is no playback picture and the screen becomes blue.	<i>39.</i>	<i>39.</i> • Clean the video heads with an optional cleaning cassette (<i>□¬</i> pg. 75).

۲

CONTINUED ON NEXT PAGE

VMD6 EN(40/80)

--

63

-

TROUBLESHOOTING (cont.)

-•

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
<i>40.</i> The LCD monitor, the viewfinder and the lens have become dirty (ex. fingerprints).	40	 40. • Wipe them gently with sof cloth. Wiping strongly can cause damage (□ pg. 65)
41. An unusual mark appears.	41.	 41. • Check the section of the manual that explains LCD monitor/viewfinder indications (ICF pg. 68 – 72)
42. An error indication (E01 — E06) appears.	42. A malfunction of some kind has occurred. In this case the camcorder's functions become unusable.	 42. • Remove the power supply (battery pack, etc.) and wait few minutes for the indicati to clear. When it does, you can resume using the camcorder. If the indication remains even though you repeat the abov two or three times, please consult your nearest THOMSON dealer.
43. The charger indicator on the AC Power Adapter/ Charger does not light.	43. The temperature of the battery is extremely high/low.Charging is difficult in places subject to extremely high/low temperatures.	43. • To protect the battery, it is recommended to charge it in places with a temperatu of 10°C to 35°C (IF pg. 73)
44. Picture does not appear on the LCD monitor.	 44. • The lens cap is attached. • The LCD monitor's brightness setting is too dark. 	 44. • Remove the lens cap (IIF pg. 14). • Adjust the brightness of the LCD monitor (IIF pg. 14). • If the monitor is tilted upward 180 degrees, oper the monitor fully (IIF pg. 15)
45. When the image is printed from the printer, a black bar appears at the bottom of the screen.	45. • This is not a malfunction.	45. • By recording with "DIS" activated (ICI pg. 24) this can be avoided.
<i>46.</i> When the camcorder is connected via the DV connector, the camcorder does not operate.	46. • The DV cable was plugged/ unplugged with power turned on.	46. • Turn the camcorder's pow off and on again, then operate it.
47. The MultiMediaCard cannot be removed from the camcorder.	47	 47. • Push in the MultiMediaCa a few more times (I pg. 11).

--

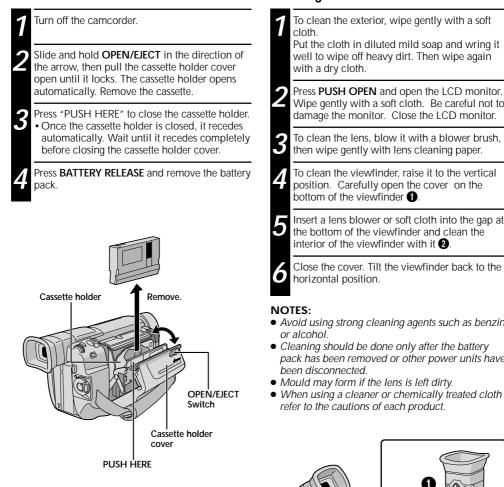
VMD6 EN(40/80)

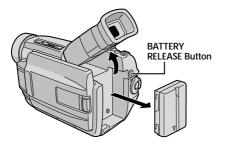
--

64

USER MAINTENANCE

After Use



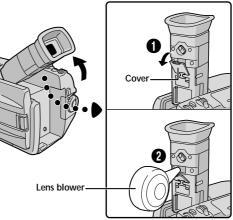


Cleaning The Camcorder

To clean the exterior, wipe gently with a soft Put the cloth in diluted mild soap and wring it well to wipe off heavy dirt. Then wipe again Press PUSH OPEN and open the LCD monitor. Wipe gently with a soft cloth. Be careful not to damage the monitor. Close the LCD monitor. To clean the lens, blow it with a blower brush, then wipe gently with lens cleaning paper. To clean the viewfinder, raise it to the vertical position. Carefully open the cover on the Insert a lens blower or soft cloth into the gap at the bottom of the viewfinder and clean the

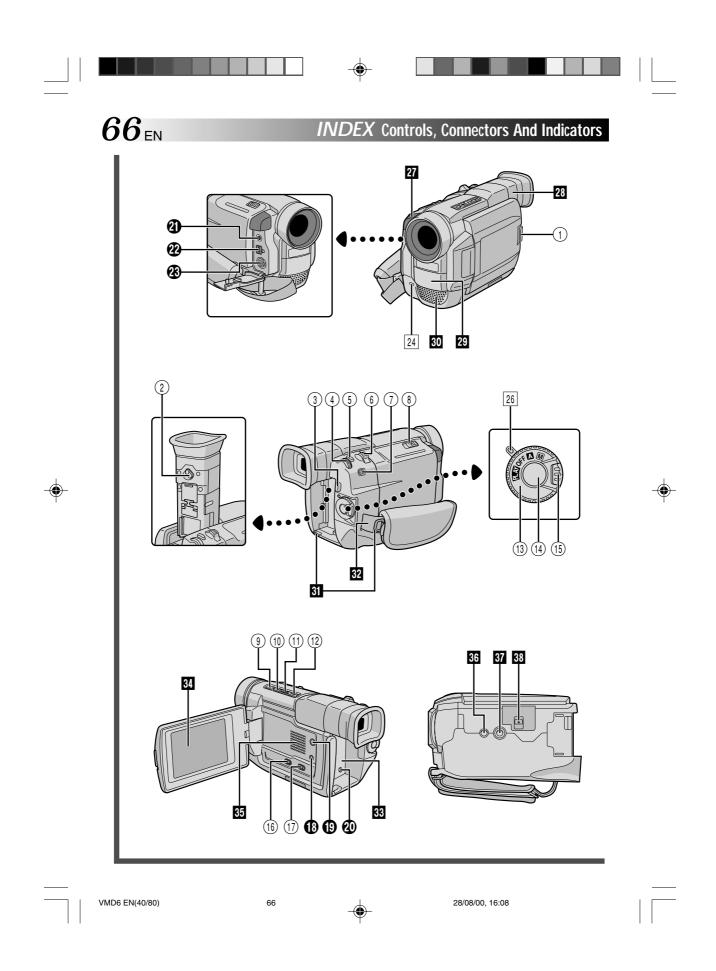
EN 65

- Avoid using strong cleaning agents such as benzine
- pack has been removed or other power units have



VMD6 EN(40/80)

65



Controls

(1) Monitor Open Button [PUSH OPEN] IP pg. 14
 Dioptre Adjustment Control I pg. 8
③ Battery Release Button [BATTERY RELEASE] IF pg. 7
④ • MENU Wheel [+, -, PUSH] ☞ pg. 22 • LCD Monitor BRIGHT (Brightness) Control [+, -] ☞ pg. 14
(5) Snapshot Button [SNAPSHOT] [] pg. 16, 17, 47
 ⑥ • Power Zoom Lever [T/W] IF pg. 18 • Speaker Volume Control [VOL.] IF pg. 31
 ⑦ Snapshot Mode Button [MODE] IF pg. 16, 17
(8) OPEN/EJECT Switch 🖙 pg. 10
(9) Stop Button [■] 🖙 pg. 31
(1) • Rewind Button [◀◀] ☞ pg. 31 • BACKLIGHT Button ☞ pg. 29
(1) Play/Pause Button [▶/Ⅲ] ॾ pg. 31
 (12) • Fast-Forward Button [▶▶] I pg. 31 • FOCUS Button F pg. 21
(1) Power Switch [▲, M, PLAY, OFF] □ pg. 13
$\textcircled{14}$ Recording Start/Stop Button $\square \ensuremath{\mathbb{F}}$ pg. 14
(15) Lock Button 🖙 pg. 13
(16) VIDEO/DSC Switch [VIDEO, DSC] IIF pg. 13
(i) Video Light Switch [LIGHT OFF/AUTO/ON] □ pg. 20

Connectors

To connect cables to the following connectors () and (), open the LCD monitor.

EN 67

18 PC (DIGITAL PHOTO) Connector IP pg. 42

- J Terminal/Edit Connector [JLIP (Joint Level
 - Interface Protocol)/EDIT] IF pg. 53 • Connect the editing cable when performing Random Assemble Editing.
 - Connect to a JLIP-compatible camcorder or VCR to control it from the computer using the provided Software.
- 🕲 DC Input Connector 🖙 pg. 7

The connectors 🕗 to 🥸 are located beneath a cover.

Audio/Video Output Connector

- [AV] 🕼 pg. 40, 44, 53
- Digital Video Connector [DV IN/OUT]
 (i.link*)...... Image: pg. 42, 43, 45
 * i.Link refers to the IEEE1394-1995 industry specification and extensions thereof. The logo is used for products compliant with the i.Link standard.
- 2 S-Video Output Connector [S] ... 🖙 pg. 40, 44, 53

Indicators

24	Tally Lamp	🖙 pg. 14	4
25	Not applicable		
_			

26 Power Lamp IF pg. 14

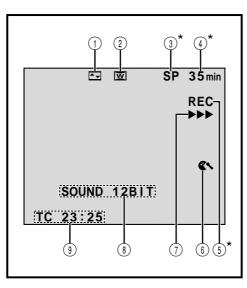
Other Parts

27	• Remote Sensor IF pg. 48
	Camera Sensor
	Be careful not to cover this area, a sensor
	necessary for shooting is built-in here.
28	Viewfinder IF pg. 8
29	Video Light III pg. 20
30	Stereo Microphone 🖙 pg. 58
31	Shoulder Strap Eyelets III pg. 8
32	Grip Strap 🖙 pg. 8
33	Battery Pack Mount Er pg. 7
34	LCD Monitor 🕼 pg. 14, 15
35	Speaker 🕼 pg. 31
36	Stud Hole 🖙 pg. 8
37	Tripod Mounting Socket 🕼 pg. 8
38	MEMORY CARD Cover IF pg. 11

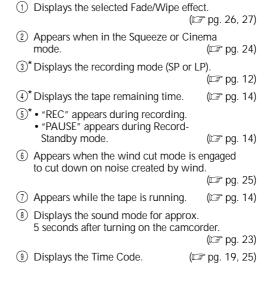
VMD6 EN(40/80)

67

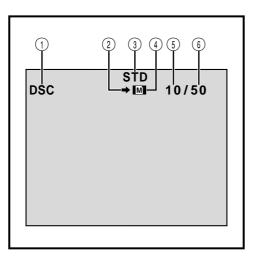
68 EN INDEX Indications LCD Monitor/Viewfinder Indications During Video Recording Only



*Setting "ON SCREEN" to "SIMPLE" in the Menu Screen removes indications marked with * from the screen (IP pg. 25, 32).



LCD Monitor/Viewfinder Indications During D.S.C. Recording Only



- Appears during shooting.
 Blinks when a MultiMediaCard is not loaded.
 (III) pg. 17)
- (5) Displays the number of images that have already been shot.
 (CF pg. 17)
- (6) Displays the total number of shots that can be stored, including those already taken.

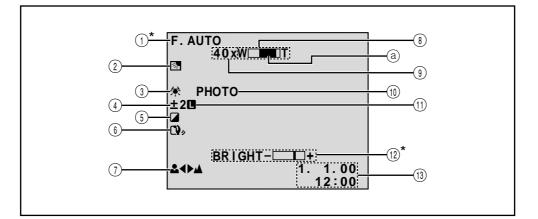
(🖙 pg. 17)

VMD6 EN(40/80)

68



LCD Monitor/Viewfinder Indications During Both Video And D.S.C. Recording

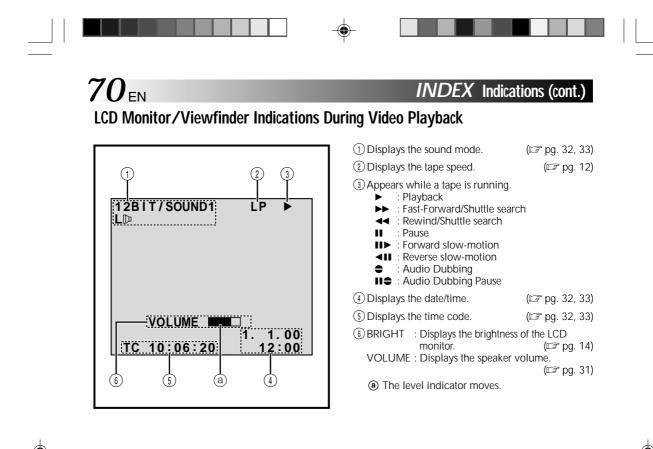


- $(1)^*$ Appears when the power switch is set to " \blacksquare ". (🕼 pg. 13)
- ② Appears when backlight compensation is used. (🕼 pg. 29)
- ③ Appears when the white balance is adjusted. . (🕼 pg. 30)
- ④ Appears when the exposure is adjusted. (🖙 pg. 29)
- (5) Displays the selected Programme AE with special effects. (🖙 pg. 28)
- (6) Appears when Digital Image Stabiliser ("DIS") is engaged. (🖙 pg. 24)
- ⑦ Appears when the focus is adjusted manually. (🖙 pg. 21)

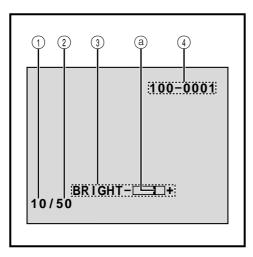
- (8) Appears during zooming. (a) Zoom level indicator (🖙 pg. 18)
- (9) Approximate zoom ratio: Appears during zooming. (🖙 pg. 18) • A≱ : Appears when "GAIN UP" is set to "AUTO" and the shutter speed is
 - automatically adjusted. (🕼 pg. 23)
- (1) Appears when taking a Snapshot. (🖙 pg. 16, 17)
- (1) Appears when the iris is locked. (🕼 pg. 29)
- (12)* Displays the brightness of the LCD monitor.
 - (🖙 pg. 14)
- (13) Displays the date/time. (🖙 pg. 9)

*Setting "ON SCREEN" to "SIMPLE" in the Menu Screen removes indications marked with * from the screen (🖙 pg. 25, 32).

VMD6 EN(40/80)



LCD Monitor/Viewfinder Indications During D.S.C. Playback



(1) Displays the index number of the image file. (ILT pg. 34)

- ② Displays the total number of stored images. (CF pg. 34)
- ③ Displays the brightness of the LCD monitor.
 (IIF pg. 14)
 ④ The level indicator moves.
- ④ Displays the directory and file names. (IF pg. 34)

VMD6 EN(40/80)

Warning Indications

Indications	Function
	Displays the battery remaining power. Remaining power level: high
	Appears when no tape is loaded. (I gg. 10)
CHECK TAPE'S ERASE PROTECTION SWITCH	Appears when the erase protection tab is set to "SAVE" while the Power Switch is set to " I " or " III" and the VIDEO/DSC Switch is set to "VIDEO". (III" pg. 10)
HEAD CLEANING REQUIRED USE CLEAN- ING CASSETTE	Appears if dirt is detected on the heads. Use an optional cleaning cassette. (12) pg. 75)
CONDENSATION, OPERATION PAUSED PLEASE WAIT	Appears if condensation occurs. When this indication is displayed, wait more than 1 hour until condensation disappears.
TAPE!	Appears if a tape is not loaded when the Recording Start/Stop Button or SNAPSHOT Button is pressed while the Power Switch is set to " I " or " I m " and the VIDEO/DSC Switch is set to "VIDEO".
TAPE END	Appears when the tape ends during recording or playback. (27 pg. 15)
DIFFERENT FORMATTED TAPE	Appears if a tape in another format is loaded.
SET DATE/TIME!	 Appears when the date/time is not set. (IF pg. 9) Appears when the built-in clock battery runs out and the previously set date/time is erased. Consult your nearest THOMSON dealer for replacement.
LENS CAP	Appears for 5 seconds after power is turned on if the lens cap is attached.
A. DUB ERROR!	Appears if Audio Dubbing is attempted on a blank portion of a tape. (III) pg. 58)
A. DUB ERROR! <cannot dub<br="">ON AN LP RECORDED TAPE> <cannot dub<br="">ON A 16BIT RECORDING> <check erase<br="" tape's="">PROTECTION SWITCH></check></cannot></cannot>	 Appears if Audio Dubbing is attempted on a tape recorded in the LP mode. (I r pg. 58) Appears if Audio Dubbing is attempted on a tape recorded in 16-bit audio. (I r pg. 58) Appears if A. DUB (●) on the remote control is pressed when the erase protection tab is set to "SAVE". (I r pg. 58)
MEMORY IS FULL	Appears when the MultiMediaCard's memory is full and shooting is not possible.

CONTINUED ON NEXT PAGE

۲

EN 71

VMD6 EN(40/80)

- (

71

INDEX Indications (cont.)

Indications	Function
COPYING FAILED	 Appears if dubbing of copyguarded signals is attempted while this camcorder is being used as a recorder. (CP pg. 45) Appears in the following cases when dubbing from a tape to a MultiMediaCard: when no MultiMediaCard is loaded. when the MultiMediaCard's memory is full. when the MultiMediaCard is not formatted. (PP pg. 47) Appears in the following cases when dubbing still images stored in the MultiMediaCard's memory to a tape: when condensation occurs. when no tape is loaded. when the rase protection tab is set to "SAVE". when a tape in another format is loaded. when the tape ends. (PP pg. 46)
MEMORY CARD!	Appears if a MultiMediaCard is not loaded when SNAPSHOT is pressed while the Power Switch is set to " [] " or " [] " and the VIDEO/DSC Switch is set to " [] ".
PLEASE FORMAT	Appears when there is a problem with a MultiMediaCard and its memory is corrupt, or it has not been initialised. Initialise the MultiMediaCard. (IF pg. 39)
NO STORED IMAGE	Appears if there are no images stored in the MultiMediaCard when the Power Switch is set to " DSC ".
E01 — E06 UNIT IN SAFEGUARD MODE REMOVE AND REATTACH BATTERY	The error indications (E01 — E06) show what type of malfunction has occured. When an error indication appears, the camcorder turns off automatically. Remove the power supply (battery, etc.) and wait a few minutes for the indication to clear. When it does, you can resume using the camcorder. If the indication remains, consult your nearest THOMSON dealer.

۲

VMD6 EN(40/80)

 72_{en}

--

72

CAUTIONS

Video Light

DANGER

The video light can become extremely hot. Do not touch it either while in operation or soon after turning it off, otherwise serious injury may result.



- Do not place the camcorder into the carrying case immediately after using the video light, since it remains extremely hot for some time.
- When operating, keep a distance of about 30 cm between the video light and people or objects.
- Do not use near flammable or explosive materials.
- It is recommended that you consult your nearest THOMSON dealer for replacing the video light.

General Battery Precautions

If the remote control is not functioning even if it is being operated correctly, the batteries are exhausted. Replace them with fresh ones.

Use only the following batteries: AAA (R03) size x 2 Please make note of the following rules for battery use. When misused, the batteries can leak or explode.

- 1. When replacing batteries, refer to page 48.
- 2. Do not use any different size of batteries from those specified.
- 3. Be sure to install batteries in the correct direction.
- 4. Do not use rechargeable batteries.
- 5. Do not expose the batteries to excessive heat as they can leak or explode.
- 6. Do not dispose of the batteries in a fire.
- 7. Remove the batteries from the unit if it is to be stored for an extended period to avoid battery leakage which can cause malfunctions.

Battery Packs

The supplied battery pack is a lithium-ion battery. Before using the supplied battery pack or an optional battery pack, be sure to read the following cautions:



1. To avoid hazards . . .

- do not burn.
- do not short-circuit the terminals. When transporting, make sure the provided battery cap is attached to the battery. If the battery cap is misplaced, carry the battery in a plastic bag.
- do not modify or disassemble.
- do not expose the battery to temperatures exceeding 60°C, as this may cause the battery to overheat, explode or catch fire. use only specified chargers.

2. To prevent damage and prolong service life . . .

- do not subject to unnecessary shock. charge in an environment where temperatures are within the tolerances shown in the chart below. This is a chemical reaction type battery-cooler temperatures impede chemical reaction, while warmer temperatures can prevent complete charging.
- store in a cool, dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
- fully charge and then fully discharge the battery every 6 months when storing the battery pack over a long period time.
- remove from charger or powered unit when not in use, as some machines use current even when switched off.

NOTES:

 It is normal for the battery pack to be warm after charging, or after use.

Temperature Range Specifications Charging 10°С to 35°С Operation 0°С to 40°С Storage -10°C to 30°C

- Recharging time is based on room temperature of 20°C
- The lower the temperature, the longer recharging takes

$74_{\scriptscriptstyle { m EN}}$

Cassettes

To properly use and store your cassettes, be sure to read the following cautions:

1. During use . .

- make sure the cassette bears the Mini DV mark.
- be aware that recording onto prerecorded tapes automatically erases the previously recorded video and audio signals.
- make sure the cassette is positioned properly when inserting.
- do not load and unload the cassette repeatedly without allowing the tape to run at all. This slackens the tape and can result in damage.
- do not open the front tape cover. This exposes the tape to fingerprints and dust.

2. Store cassettes . . .

- away from heaters or other heat sources.
- out of direct sunlight.
- where they won't be subject to unnecessary shock or vibration.
- where they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).
- vertically, in their original cases.

MultiMediaCards

To properly use and store your MultiMediaCards, be sure to read the following cautions:

1. During use . .

- make sure the MultiMediaCard bears the
- MultiMediaCard mark
- make sure the MultiMediaCard is positioned properly when inserting.
- 2. While the MultiMediaCard is being accessed (during recording, playback, deletion, initialisation, etc.) . . .
- never unload the MultiMediaCard and never turn off the camcorder.

3. Store MultiMediaCards . .

- away from heaters or other heat sources.
- out of direct sunlight.
- where they won't be subject to unnecessary shock or vibration.
- where they won't be exposed to strong magnetic fields (such as those generated by motors, transformers or magnets).

LCD Monitor

- 1. To prevent damage to the LCD monitor, DO NOT . . .
 - push it strongly or apply any shocks. place the camcorder with the LCD monitor on the bottom.

CAUTIONS (cont.)

2. To prolong service life . . .

- avoid rubbing it with coarse cloth.
- 3. Be aware of the following phenomena for LCD monitor use.

These are not malfunctions:

- While using the camcorder, the surface around the LCD monitor and/or the back of the LCD monitor may heat up.
- If you leave power on for a long time, the surface around the LCD monitor becomes hot.

Main Unit

1. For safety, DO NOT . . .

- open the camcorder's chassis.
- disassemble or modify the unit.
- short-circuit the terminals of the battery pack. Keep it away from metallic objects when not in use.
- allow inflammables, water or metallic objects to enter the unit.
- ... remove the battery pack or disconnect the power supply while the power is on.
- ... leave the battery pack attached when the camcorder is not in use.

2. Avoid using the unit . . .

- in places subject to excessive humidity or dust. in places subject to soot or steam such as near
- a cooking stove. in places subject to excessive shock or vibration.
- near a television set.
- near appliances generating strong magnetic or electric fields (speakers, broadcasting antennas, etc.).
- in places subject to extremely high (over 40°C) or extremely low (under 0°C) temperatures.

3. DO NOT leave the unit . . .

- in places of over 50°C.
- in places where humidity is extremely low (below 35%) or extremely high (above 80%).
- in direct sunlight.
- in a closed car in summer.
- near a heater.

VMD6 EN(40/80)

74

4. To protect the unit, DO NOT . . .

- allow it to become wet.
- drop the unit or strike it against hard objects. subject it to shock or excessive vibration
- during transportation.
- keep the lens directed at extremely bright objects for long periods.
- expose the lens to direct sunlight
- carry it by holding the LCD monitor or the viewfinder.
- swing it excessively when using the shoulder strap or the grip.

5. Dirty heads can cause the following problems:



- No picture during playback.
- Blocks of noise appear during playback.
- During recording, the Head Clog Warning indicator " I prease.

In such cases, use an optional cleaning cassette. Insert it and play back. If the cassette is used more than once consecutively, damage to the video heads may result. After the camcorder plays back for about 20 seconds, it stops automatically. Also refer to the cleaning cassette's instructions.

If, after using the cleaning cassette, the problems still exist, consult your nearest THOMSON dealer.

Mechanical moving parts used to move the video heads and video tape tend to become dirty and worn out over time. In order to maintain a clear picture at all times, periodic check-ups are recommended after using the unit for about 1,000 hours. For periodic check-ups please consult your nearest THOMSON dealer.

How To Handle A CD-ROM

• Take care not to soil or scratch the mirror surface (opposite to the printed surface). Do not write anything or put a sticker on either the front or back surface. If the CD-ROM gets dirty, gently wipe it with a soft cloth outward from the centre hole using a circular motion.

EN 75

- Do not use conventional disc cleaners or cleaning spray.
- Do not bend the CD-ROM or touch its mirror surface.
- Do not store your CD-ROM in a dusty, hot or humid environment. Keep it away from direct sunlight.

About moisture condensation . . .

- You have observed that pouring a cold liquid into a glass will cause drops of water to form on the glass' outer surface. This same phenomenon occurs on the head drum of a camcorder when it is moved from a cool place to a warm place, after heating a cold room, under extremely humid conditions or in a place directly subjected to the cool air from an air conditioner.
- Moisture on the head drum can cause severe damage to the video tape, and can lead to internal damage to the camcorder itself.

Serious malfunctioning

If malfunctioning occurs, stop using the unit immediately and consult your local THOMSON dealer.

The camcorder is a microcomputer-controlled device. External noise and interference (from a TV, a radio, etc.) might prevent it from functioning properly. In such cases, first disconnect its power supply unit (battery pack, AC Power Adapter/Battery Charger, etc.) and wait a few minutes and then re-connect it and proceed as usual from the beginning.

VMD6 EN(40/80)

75

_

76_{en}

A	
AC Power Adapter/Charger	🖙 pg. 6, 7
Audio Dubbing	🖙 pg. 58
Auto Focus	🖙 pg. 21
Auto Shut off	🕼 pg. 15, 31

F

B

Backlight Compensation 🖙 pg. 29
Battery Low Is pg. 71
Battery Pack IF pg. 6, 7, 73
Brighten The LCD Monitor IP pg. 14
-

<u>C</u>

Channels (Left/Right)	. 🖙 pg. 33
Charge The Battery Pack	🖙 pg. 6
Cinema	. 🖙 pg. 24
Classic Film	. 🕼 pg. 28
Clean The Camcorder	. 🕼 pg. 65
Connections 🖙 pg. 7, 40, 4	42 – 45, 53

D

Darken The LCD Monitor 🖙 pg. 14
Date/Time Display IF pg. 25, 32, 33
Date/Time Settings IF pg. 9
Deleting Images IF pg. 38
Demonstration Mode Is pg. 5, 24
Digital Zoom 🖙 pg. 18, 23
DIS (Digital Image Stabiliser) IF pg. 24
Dioptre Adjustment IF pg. 8
Dubbing 🖙 pg. 44 – 47
_

E

Erase Protection	II	pg.	10
Exposure Control	II	pg.	29

Fade-In/Out 🖙 pg. 26, 27 Fast-Forward The Tape IF pg. 31 Frame-By-Frame Playback 🖙 pg. 31, 50 G Gain Up 🖙 pg. 23 Grip Adjustment 🖙 pg. 8 L Icons IIF pg. 22 - 25 Index Playback IF pg. 35 Initialise A MultiMediaCard IF pg. 39 Iris..... 🖙 pg. 29 Iris Lock IF pg. 29 J Journalistic Shooting IF pg. 15 L LCD monitor/Viewfinder Indications 🖙 pg. 68 – 72 Load A Tape Is pg. 10 Μ Manual Focus I pg. 21 Menu Screen, CAMERA MENU I pg. 23, 24

IVIENU SCIEEN, CAIVILKA IVILNU 🖙 py. 23, 24
Menu Screen, DISPLAY MENU 🖙 pg. 25, 32
Menu Screen, DSC MENU 🖙 pg. 25, 37
Menu Screen, MANUAL MENU 🕼 pg. 24, 25
Menu Screen, VIDEO MENU 🖙 pg. 32
Monotone 🖙 pg. 28
Motor Drive Mode 🖙 pg. 16
MultiMediaCard 🖙 pg. 11, 74

TERMS

VMD6 EN(40/80)

EN 77

þ	
Picture Quality Mode	🖙 pg. 12
Picture Wipe/Dissolve	pg. 26, 27
Playback Special Effects	🖙 pg. 51
Playback Zoom	🖙 pg. 50
Power Switch Position	🖙 pg. 13
Programme AE With Special Effects	🖙 pg. 28
Protecting Images	🖙 pg. 37
Provided Accessories	🖙 pg. 4
D	

۲

Т

ĸ

Random Assemble Editing 🖙 pg. 52 – 5	57
Record-Standby IF pg. 1	4
Recording Mode IF pg. 1	2
Remote Control 🖙 pg. 4	8
Reset 🖙 pg. 2	25
Rewind The Tape 🖙 pg. 3	31
S	

۲

Self-Recording	🖙 pg. 15
Sepia	🖙 pg. 28
Set Remote Control/VCR Code	🖙 pg. 52
Shuttle Search	🖙 pg. 31
Shutter Speed	🖙 pg. 28
Slide Show	🖙 pg. 36
Slow-Motion Playback	🖙 pg. 50
Slow Shutter	🖙 pg. 28
Snapshot	
Snapshot Mode	
Sound Mode	. 🕼 pg. 23, 32, 33
Speaker Volume	🖙 pg. 31
Specifications	🖙 pg. 78, 79
Squeeze	🖙 pg. 24
Still Playback	🖙 pg. 31
Strobe	

-
Tally Image: pg. 14, 23 Tele Macro Image: pg. 24 Time Code Image: pg. 20, 22, 22
Time Code 🖙 pg. 19, 25, 32, 33
Tripod Mounting
Twilight 🖙 pg. 28
<u>U</u>
Unload A Tape 🖙 pg. 10
V
VIDEO/DSC Switch Position IF pg. 13
Video Echo 🖙 pg. 28
Video Light 🕼 pg. 20
W
White Balance IF pg. 30
Wide Mode 🕼 pg. 24
Wind Cut 🕼 pg. 25
Wipe In/Out 🕼 pg. 26, 27
Ζ
Zooming IP pg. 18

VMD6 EN(40/80)

77

78 _{EN}	SPECIFICATIONS
O EN	SPECIFICATIONS
	Camcorder
For General	
Power supply	: DC 6.3 V (Using AC Power Adapter/Charger) DC 7.2 V (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.3 W
LCD monitor on, viewfinder off	: Approx. 5.3 W
Video light	: Approx. 3.5 W
Dimensions (W x H x D)	: 80 mm x 96 mm x 170 mm
	(with the LCD monitor closed and the viewfinder pushed down)
Weight	: Approx. 580 g
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C
Pickup	: 1/4" CCD
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens
Filter diameter	: ø37 mm
LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural

۲



For Digital Video Camera		
Format	: DV format (SD mode)	T
Signal format	: PAL standard	
Recording/Playback format	: Video : Digital component recording	
	: Audio : PCM digital recording, 32 kHz 4-channel (12-bit),	

Cassette Tape speed

Maximum recording time (using 80 min. cassette)

48 kHz 2-channel (16-bit) Mini DV cassette

- : SP: 18.8 mm/s LP: 12.5 mm/s
- : SP: 80 min. LP: 120 min.

VMD6 EN(40/80)

For Digital Still Camera

3		
Storage media	: MultiMediaCard	
Compression system	: JPEG (compatible)	
File size	: VGA: 640 x 480 pixels	
Picture quality	: 2 modes (FINE/STANDARD)	
Approximate number of storabl	le images	
(with an optional MultiMedia	Card [8 MB])	
FINE	: 100	
STANDARD	: 200	
(with the provided MultiMed	iaCard [16 MB])	
FINE	: 200	
STANDARD	: 400	
For Connectors		
S	: Y : 1 V (p-p), 75 Ω , analogue output	
	C : 0.29 V (p-p), 75 Ω , analogue output	
AV		
Video output	: 1 V (p-p), 75 Ω, analogue	
Audio output	: 300 mV (rms), 1 k Ω , analogue, stereo	
DV		
Input/output	: 4-pin, IEEE 1394 compliant	
PC (DIGITAL PHOTO)		
Digital still output	: ø2.5 mm, 3-pole	
JLIP/EDIT	: ø3.5 mm, 4-pole	
	-	

AC Power Adapter/Charger AC600

Power requirement Power consumption Output Charge VTR Dimensions (W x H x D) Weight

۲

: AC 110 V to 240 V_√, 50 Hz/60 Hz
: 23 W
: DC 7.2 V == , 1.2 A
: DC 6.3 V == , 1.8 A
: 68 mm x 38 mm x 110 mm
: Approx. 260 g

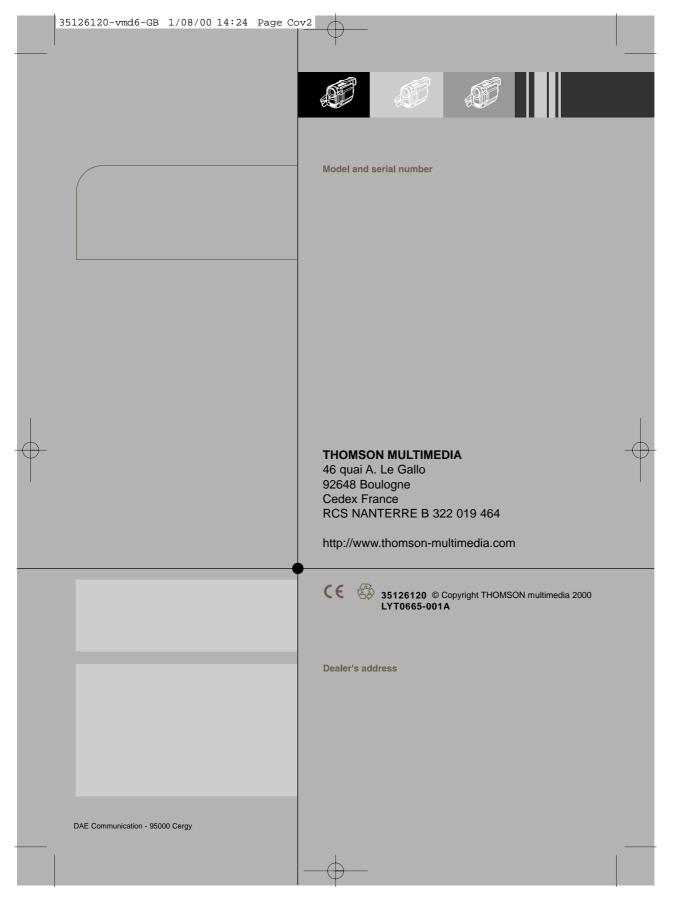
Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

79

28/08/00, 16:09

EN 79

			•		
	80 EN				
		NC	DTES		
					 •
Ŷ					 Ŷ
	VMD6 EN(40/80)	80 -	•	28/08/00, 16:09	



Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com