

**ENGLISH**

# Digital Video Camcorder

Mini DV Digital  
Video  
Cassette

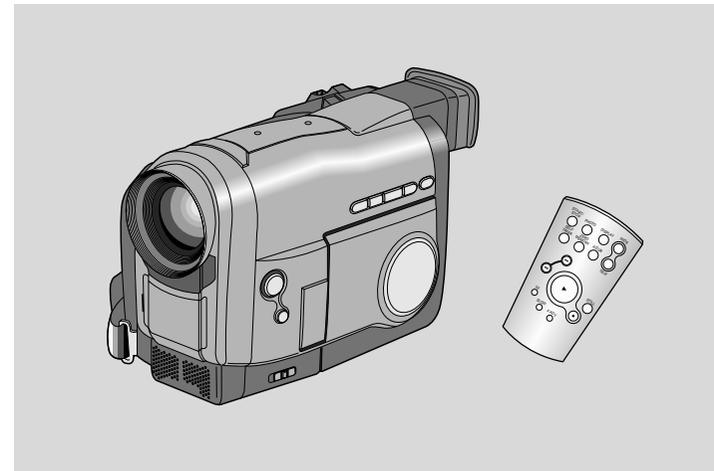
**VP-D73/D75/D76/D77**  
**VP-D73i/D75i/D76i/D77i**

**AF** Auto Focus  
**CCD** Charge Coupled Device  
**LCD** Liquid Crystal Display

## Owner's Instruction Book

Before operating the unit, please read this instruction book thoroughly, and retain it for future reference.

 This product meets the intent of  
Directive 89/336 CEE, 73/23 CEE, 93/68 CEE.



**SAMSUNG**  
ELECTRONICS

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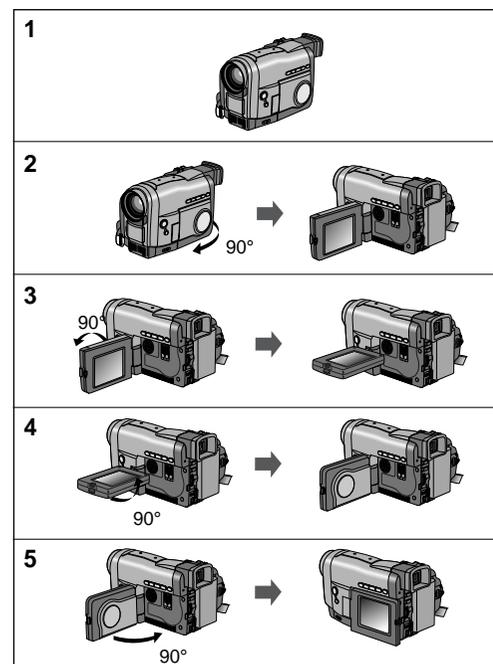
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# Notices and Safety Instructions

## *Notices regarding rotation of LCD screen*

Please rotate the LCD screen carefully as illustrated. Unintended rotation may cause damage to the inside of the hinge that connects the LCD screen to the Camcorder.

1. LCD screen closed.
2. Standard recording by using the LCD screen.
3. Making a recording by looking at the LCD screen from the top.
4. Making a recording by looking at the LCD screen from the front.
5. Making a recording with the LCD screen closed.



## Notices and Safety Instructions

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### *Notices regarding COPYRIGHT*

Television programs, video tapes, DVD titles, films, and other program materials may be copyrighted. Unauthorized copying of copyrighted material may be against the law.

### *Notices regarding moisture condensation*

1. A sudden rise in atmospheric temperature may cause condensation to form inside the camcorder.

***for example:***

- When you move the camcorder from cold outside to warm inside during the winter.
- When you move the camcorder from cool inside to hot outside during the summer.

2. If the "DEW" protection feature is activated, leave the camcorder for at least two hours in a dry, warm room with the cassette compartment opened and the battery removed.

### *Notices regarding CAMCORDER*

1. Do not leave the camcorder exposed to high temperature (above 60°C or 140°F).  
For example, in a parked car in the sun or under direct sunlight.

2. Do not let the camcorder get wet.

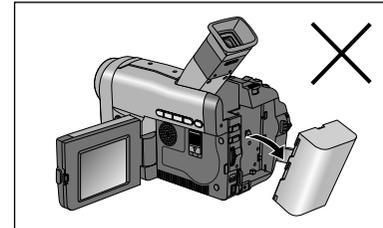
Keep the camcorder away from rain, sea water, and any other form of moisture. If the camcorder gets wet, it may be damaged. Sometimes malfunction cannot be repaired.

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# Notices and Safety Instructions

### *Notices regarding the battery pack*

- Make sure the battery pack is fully charged before recording starts.
- To preserve battery power, keep your camcorder turned off when you are not operating it.
- When your camcorder is in CAMERA mode, if it is left in STBY mode without operation for more than 5 minutes with a tape installed, it will automatically turn off to protect against unnecessary battery discharge.
- Make sure that the battery pack is fitted firmly into place. Dropping the battery pack may damage it.
- A brand new battery pack is not charged. Before using the battery pack, charge it completely.
- It is a good idea to use the viewfinder instead of the LCD when recording for a long time, because the LCD uses up more battery power.



\*When the battery reaches the end of its life, please contact your local dealer. The batteries have to be dealt with as chemical waste.

### *Notices regarding video head cleaning*

- To ensure normal recording and a clear picture, clean the video heads regularly. If a square block-shaped noise distorts playback pictures, or if only a blue screen is displayed during playback, the video heads may be dirty. If this happens, clean the video heads with a dry type cleaning cassette.
- Do not use a wet type cleaning cassette. It may damage the video heads.

## Notices and Safety Instructions

### *Notice regarding the LENS*

- Do not film with the camera lens pointing directly at the sun.  
Direct sunlight can damage the CCD(Charge Coupled Device).

### *Notices regarding electronic viewfinder*

1. Do not position the camcorder such that the viewfinder is pointing towards the sun.  
Direct sunlight can damage the inside of the viewfinder.  
Be careful when placing the camcorder under sunlight or by a window.
2. Do not pick up the camcorder by the viewfinder.
3. Over-rotation of the viewfinder may damage it.

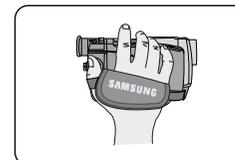
### *Notices regarding Record or Playback using LCD*

1. The LCD display is manufactured using high precision technology.  
However, there can be tiny dots(red, blue or green in colour) that appear on the LCD display.  
These dots are normal and do not affect the recorded picture in any way.
2. When you use the LCD display in direct sunlight or outdoors, it may be difficult to see the picture.  
If this occurs, we recommend that the viewfinder is used.
3. Direct sunlight can damage the LCD monitor.



### *Notices regarding the hand strap*

- To ensure a steady picture during filming, check that the hand strap is properly adjusted.
- Do not force your hand into the hand strap as you could damage it.



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# Notices and Safety Instructions

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### *Precautions regarding the Lithium battery*

**Warning:** Keep the LITHIUM BATTERY out of the reach of children. Should any battery be swallowed, consult a doctor immediately.

1. The lithium battery maintains the clock function and user settings; even if the battery pack or AC adapter is removed.
2. The lithium battery for the camcorder lasts about 6 months under normal operation from time of installation.
3. When the lithium battery becomes weak or dead, the date/time indicator will flash for about five seconds when you set the power switch to CAMERA.

In this case, replace the lithium battery with a new one (type CR2025).

### *Notice regarding VIDEO LIGHT*

**Danger:**

- The video light can become extremely hot. Do not touch it during operation or after turning it off, otherwise serious injury may result. Take 5 minutes (approx.) for the light to cool down.
- Do not place the camcorder into the carrying case immediately after using the video light. The video light will be hot. Please allow time for it to cool down.
- Do not use near flammable or explosive materials.
- It is recommended that you consult your nearest SAMSUNG dealer for replacement bulbs.

**DANGER** - NOT TO BE HANDLED BY CHILDREN. EMITS INTENSE HEAT AND LIGHT. USE WITH CAUTION TO REDUCE THE RISK OF FIRE OR INJURY TO PERSONS. DO NOT DIRECT LIGHT AT PERSONS OR MATERIALS FROM LESS THAN FOUR FEET DURING USE AND UNTIL COOL. DISCONNECT WHEN NOT IN USE.

**DANGER** - TO PREVENT POSSIBLE BURN HAZARD, DISCONNECT SUPPLY CORD AND ALLOW LAMP TO COOL BEFORE REPLACING.

# Getting to Know Your Camcorder

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## Features

- **Digital data transfer function with IEEE1394**  
By incorporating IEEE 1394 (i.LINK™ : i.LINK is a serial data transfer protocol and interconnection system, used to transmit DV data) high speed data transport port, moving and still images can be transferred to PC, making it possible to produce or edit various images.  
(VP-DXXi is able to record and receive digital data from another DV Device.  
VP-DXX is not able to record and receive digital data from another DV Device.)
- **USB interface for digital image data transfer**  
You can transfer standstill images and short video clip to PC using the USB interface without any add-on card.
- **PHOTO**  
The PHOTO function lets you capture an object as a still along with sound, while in Camera mode.
- **500x Digital zoom**  
Allow you to magnify an image to up to 500 times its original size.
- **Colour TFT LCD**  
A high-resolution colour TFT LCD (with 112,320 pixels) gives you clean, sharp images as well as the ability to review your recordings immediately.
- **Digital Image Stabilizer**  
The DIS compensates for handshake, reducing unstable images particularly at high magnification.
- **Various digital effects**  
The DSE (Digital Special Effects) allows you to give your films a special look by adding various special effects.
- **Back Light Compensation ( BLC )**  
When you record a subject with the light source behind it or a subject with a light background, the BLC function compensates for the bright background.
- **Program AE**  
The Program AE enables you to alter the shutter speed and aperture to suit the type of scene/action to be filmed.
- **Digital Still Camera function (VP-D75(i)/D76(i)/D77(i) only)**
  - Using the built-in 4MB memory (VP-D75(i) only) or Smart Media Card (VP-D76(i)/D77(i) only), you can easily record and playback standstill images.
  - You can transfer standstill images on the built-in memory or Smart Media Card to PC using USB interface.

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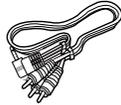
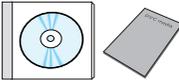
# Getting to Know Your Camcorder

## Accessories Supplied with camcorder

Make sure that the following basic accessories are supplied with your digital video camera.

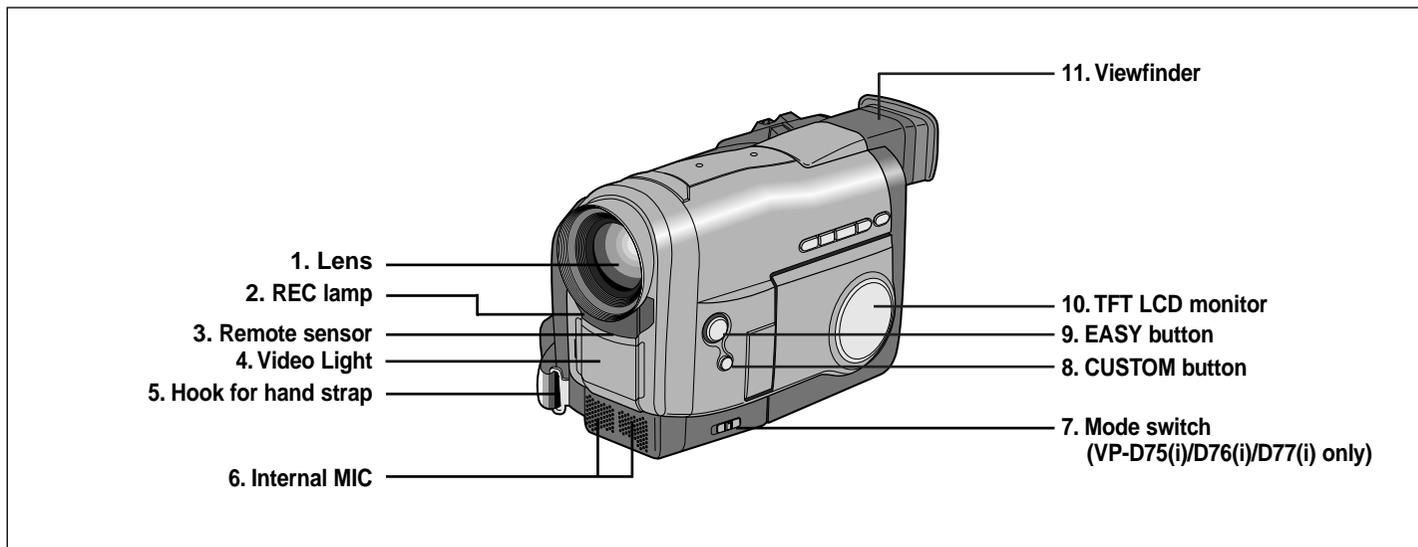
### Basic Accessories

1. Lithium Ion Battery pack
2. AC Power Adapter
3. AC cord
4. AUDIO/VIDEO cable
5. Instruction Book
6. Shoulder Strap
7. Lithium batteries for Remote Control and Clock.  
(TYPE: CR2025,2 EA)
8. S-VIDEO cable
9. Remote Control
10. Scart adapter
11. USB cable
12. Software CD/Instruction Book
13. SmartMediaCard  
(VP-D76(i)/D77(i) only)

1. Lithium Ion Battery pack 	2. AC Power Adapter 	3. AC cord 
4. AUDIO/VIDEO cable 	5. Instruction Book 	6. Shoulder Strap 
7. Lithium batteries (2EA) 	8. S-VIDEO cable 	9. Remote Control 
10. Scart adapter 	11. USB cable 	12. Software CD/Instruction Book 
13. SmartMedia Card 		

# Getting to Know Your Camcorder

## Front & Left View



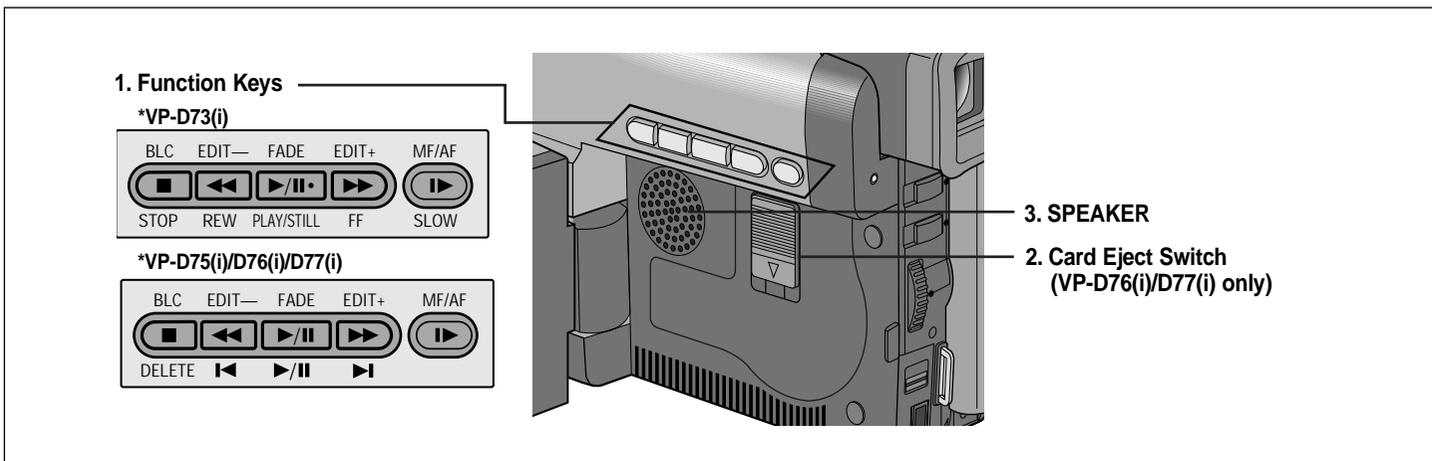
- 1. Lens
- 2. REC lamp
- 3. Remote sensor
- 4. Video Light (see page 61)
- 5. Hook for hand strap (see page 20)
- 6. Internal MIC

- 7. Mode switch: CAMCORDER ↔ DSC (see page 21)  
(VP-D75(i)/D76(i)/D77(i) only)
- 8. CUSTOM button (see page 53)
- 9. EASY button (see page 52)
- 10. TFT LCD monitor
- 11. Viewfinder (see page 29)

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# Getting to Know Your Camcorder

## Left Side View



### 1. Function Keys

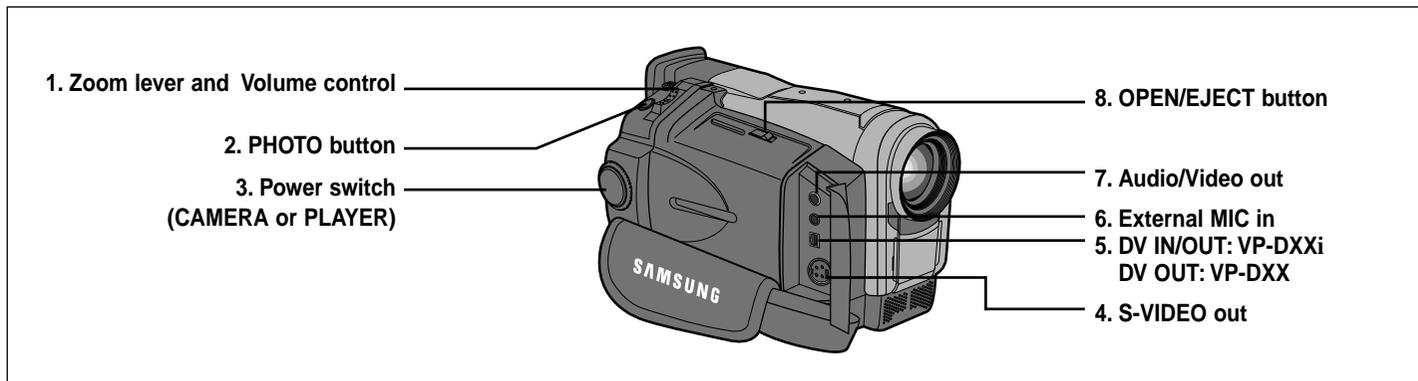
PLAYER	CAMERA	DSC PLAYER (VP-D75(i)/D76(i)/D77(i) only)
■ : (STOP)	BLC (see page 55)	DELETE (see page 83)
◀ : (REW)	EDIT -	◀ : MEM.-
▶/   : (PLAY/STILL)	FADE (see page 56)	▶/   : SLIDE (see page 81)
▶▶ : (FF)	EDIT +	▶▶ : MEM.+
▶ : (SLOW)	MF/AF (see page 54)	

2. Card Eject switch (see page 77)  
(VP-D76(i)/D77(i) only)

3. Speaker

# Getting to Know Your Camcorder

## *Right & Top View*

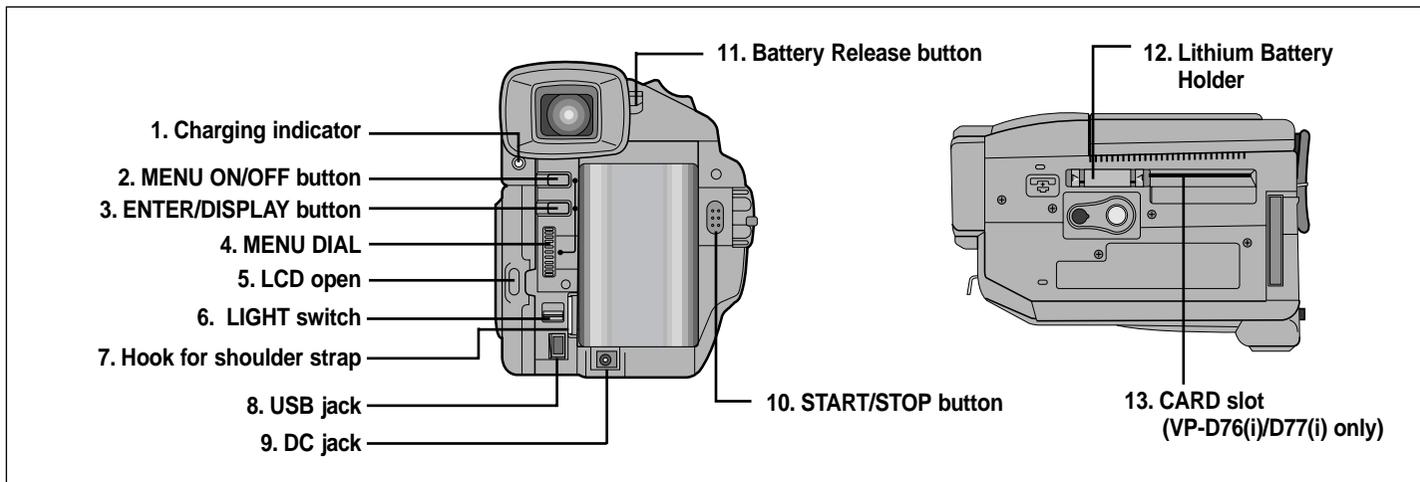


1. Zoom lever and Volume control (see page 31, 37)
2. PHOTO button (see page 59)
3. Power switch (CAMERA or PLAYER) (see page 21)
4. S-VIDEO out
5. DV IN/OUT: VP-DXXi (see page 70)  
DV OUT: VP-DXX
6. External MIC in (see page 57)
7. Audio/Video out
8. OPEN/EJECT button (see page 25)

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# Getting to Know Your Camcorder

## Rear & Bottom View



1. Charging indicator (see page 22)

2. MENU ON/OFF button (see page 32)

3. ENTER/DISPLAY button

4. MENU DIAL (see page 32)

5. LCD open

6. LIGHT switch (see page 61)

7. Hook for shoulder strap

8. USB jack (see page 74)

9. DC jack (see page 21)

10. START/STOP button (see page 26)

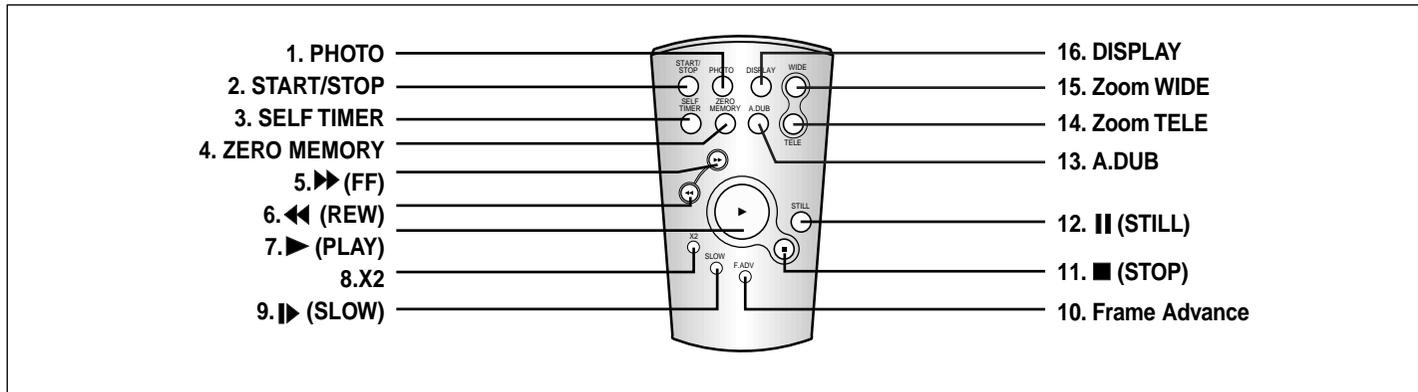
11. Battery Release button (see page 88)

12. Lithium Battery holder (see page 19)

13. CARD slot (VP-D76(i)/D77(i) only)

# Getting to Know Your Camcorder

## Remote control



- 1. PHOTO
- 2. START/STOP
- 3. SELF TIMER (see page 18)
- 4. ZERO MEMORY (see page 68)
- 5. ►► (FF)
- 6. ◀◀ (REW)
- 7. ► (PLAY)
- 8. X2 (see page 67)

- 9. ►► (SLOW)
- 10. Frame Advance (see page 67)
- 11. ■ (STOP)
- 12. || (STILL)
- 13. A.DUB (see page 57)
- 14. Zoom TELE
- 15. Zoom WIDE
- 16. DISPLAY (see page 17)

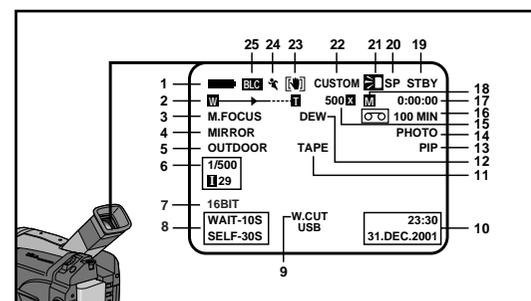
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# Getting to Know Your Camcorder

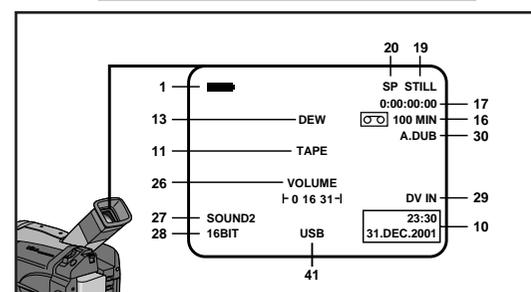
### OSD (On Screen Display in Camcorder mode)

1. Battery level (see page 24)
2. Zoom position (see page 37)
3. Manual focus (see page 54)
4. DSE (Digital Special Effect) mode (see page 40)
5. White Balance mode (see page 42)
6. Shutter speed and IRIS (see page 43, 44)
7. Audio record mode (see page 47)
8. Self record and waiting timer (see page 18)
9. WIND CUT(see page 46)
- 10.DATE/TIME (see page 49)
- 11.Self diagnosis (see page 91)
- 12.DEW condensation (see page 91)
- 13.PIP (Picture in Picture) (see page 36)
- 14.Photo (see page 59)
- 15.Digital zoom mode (see page 38)
- 16.Remaining Tape (measured in minutes)
17. Tape counter
18. Zero memory indicator (see page 68)
- 19.Operating mode
- 20.Record speed mode (see page 45)
- 21.Light ON (see page 61)
- 22.Custom or Easy mode (see page 52, 53)
- 23.DIS (Digital Image Stabilizer) (see page 35)
- 24.Program AE (see page 39)
- 25.BLC (Back Light Compensation) (see page 55)
- 26.Volume control (see page 31)
- 27.Audio playback channel (see page 58)
- 28.Audio playback mode
- 29.DV IN (VP-DXXi only) (DV data receiving mode) (see page 70)
- 30.A. DUB (see page 57)

OSD in CAMCORDER RECORD mode



OSD in CAMCORDER PLAYBACK mode



# Getting to Know Your Camcorder

## OSD (On Screen Display in DSC mode)

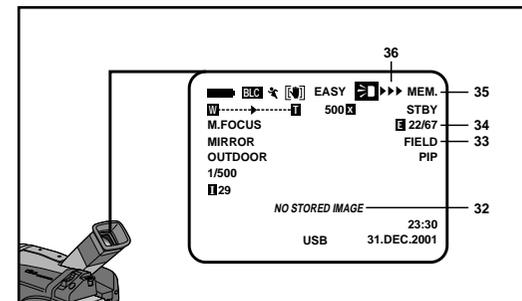
⚙️ These items are available in VP-D75(i)/D76(i)/D76(i) models only.

- 31. Folder number-file number (see page 78)
- 32. Message line (see page 92)
- 33. Photo mode (FRAME/FIELD) (see page 79)
- 34. Image counter
  - Current still image/Total number of recordable still images.
- 34. CARD (memory) indicator
- 36. Image recording and loading indicator (see page 76)
- 37. Image counter
  - Current still image/Total number of recorded still images.
- 38. SLIDE SHOW indicator (see page 81)
- 39. ERASE PROTECT indicator (see page 82)
- 40. DPOF mark (see page 84)
- 41. USB (see page 71)

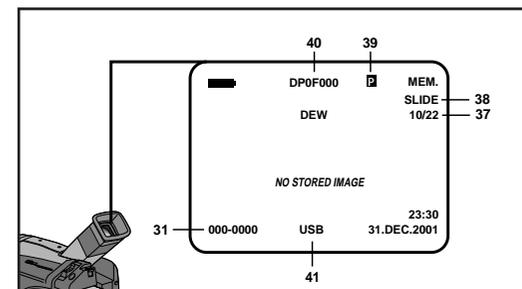
### Turning the OSD on/off (On Screen Display)

- ⚙️ When you set the power switch to CAMERA, and the OSD is automatically turned on.
- ⚙️ When you set the power switch to PLAYER, and the OSD is automatically turned off.
- ⚙️ Refer to page 48.
- **Turning OSD on/off**
  - Press the ENTER (DISPLAY) button on the rear side panel.
  - Each press of the button toggles the OSD function on and off.
  - When you turn the OSD off,
    - In CAMERA mode: You only see those features being used.
    - In PLAYER mode: All OSD messages flash for 3 seconds then disappear.
- **Turning on/off the DATE/TIME**
  - The DATE/TIME is not affected when the OSD function is switched ON or OFF.
  - To turn the DATE/TIME on or off, access the menu and change the DATE/TIME mode. (see page 49 )

OSD in DSC RECORD mode



OSD in DSC PLAYBACK mode



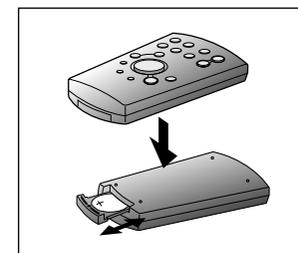
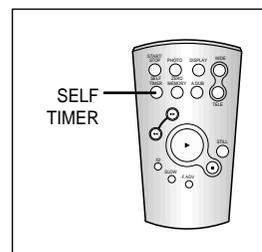
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# Getting to Know Your Camcorder

### How to use the Remote Control

#### Battery Installation for the Remote Control

- ⌘ You must insert or replace the lithium battery when :
  - You purchase the camcorder.
  - The remote control doesn't work.
- ⌘ Ensure that you insert the lithium cell correctly, following the + and – markings.
- ⌘ Be careful not to reverse the polarity of the battery.



#### Self Record using the Remote Control

The Self-Timer function on the remote control allows you to start and stop recording automatically.

#### **Example: Scene with all members of your family**

Two options are available

- WAIT-10S/SELF-30S: 10 seconds wait, 30 seconds of recording.
- WAIT-10S/SELF-END: 10 seconds wait, records until you press the START/STOP button again.

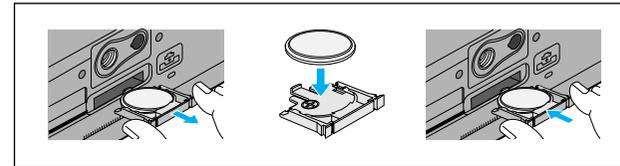
1. Set the camcorder to CAMERA mode.
2. Press the SELF TIMER button until the appropriate indicator is displayed in the viewfinder :
  - WAIT-10S/SELF-30S
  - WAIT-10S/SELF-END
3. Press the START/STOP button to start the timer.
  - : After a 10 second wait, recording starts.
  - : If you have selected SELF-30S, recording stops automatically after 30 seconds.
  - : If you have selected SELF-END, press START/STOP again when you wish to stop recording.

## Preparing

### Lithium Battery Installation

- ⌘ The lithium battery maintains the clock function and preset contents of the memory; even if the battery pack or AC power adapter is removed.
- ⌘ The lithium battery for the camcorder lasts about 6 months under normal operation from the time of installation.
- ⌘ When the lithium battery becomes weak or dead, the date/time indicator flashes for about 5 seconds when you set the power switch to CAMERA. In this case, replace the lithium battery with CR2025 type.

1. Remove the Lithium battery holder from the camera.
2. Position the Lithium cell in the holder, with the positive (+) terminal face down.
3. Reinsert the holder into the lithium battery compartment.



**Reference** The holder must be inserted in the correct direction or it will not fit properly.

**Warning:** Keep the LITHIUM BATTERY out of the reach of the children.  
Should any battery be swallowed, consult a doctor immediately.

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# Preparing

### *Adjusting the Hand Strap and Shoulder Strap*

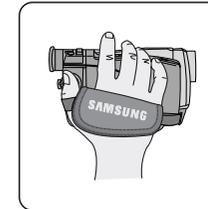
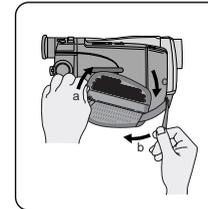
It is very important to ensure that the Hand strap is correctly adjusted before you begin your recording.

The hand strap enables you to :

- Hold the camcorder in a stable, comfortable position.
- Press the Zoom and START/STOP button without having to change the position of your hand.

#### Hand strap

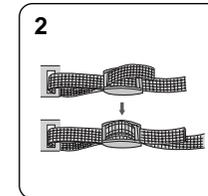
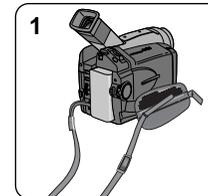
- Pull open the Hand Strap cover and release the Hand Strap.
- Adjust its length and stick it back onto the Hand Strap cover.
- Close the Hand Strap cover back up again.



#### Shoulder Strap

The Shoulder Strap enables you to carry your camcorder around in complete safety.

1. Insert the end of strap into the Shoulder Strap hook on the camcorder.  
Insert the other end of strap into ring inside hand strap.
2. Thread each end into the buckle, adjust the length of the strap and then pull it tight in the buckle.



# Preparing

## Connecting a Power Source

There are two types of power source that can be connected to your camcorder.

- The AC Power Adapter and AC cord : used for indoor recording.
- The battery Pack : used for outdoor recording.

### To use the AC Power adapter and DC Cable

1. Connect the AC Power adapter to the AC cord.

2. Connect the AC cord to a wall socket.

**Reference**

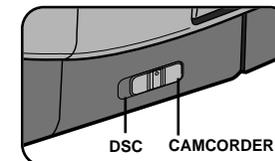
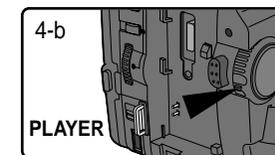
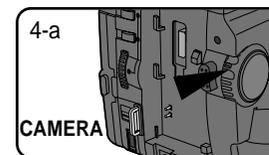
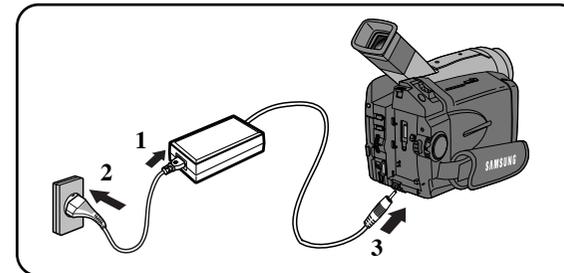
The plug and wall socket type may be different depending on the country you're in.

3. Connect the DC cable to the DC jack socket of the camcorder.

4. Set the camcorder to the CAMERA or PLAYER mode by holding down the tab on the power switch and turning it to the CAMERA or PLAYER position.

### To select the mode of CAMCORDER (VP-D75(i)/D76(i)/D76(i) only)

- ⌘ If you want to use this camcorder as the camcorder, set the mode switch to CAMCORDER position.
- ⌘ If you want to use this camcorder as the DSC (Digital Still Camera), set the mode switch to DSC position.



## ENGLISH

# Preparing

### Using the Lithium Ion Battery Pack

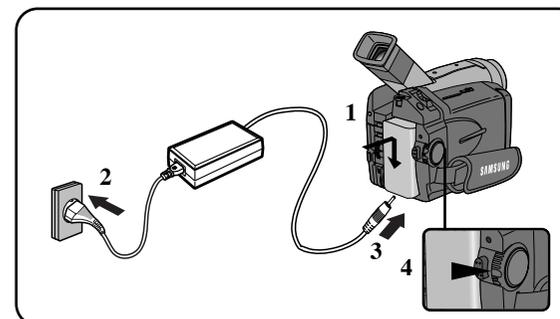
#### To use the Lithium Ion Battery Pack

- ⚠ The amount of continuous recording time available depends on :
- The type and capacity of battery pack you are using.
  - How much you use the Zoom function.
- It is, recommended that you have several batteries available.

#### Charging the Lithium Ion Battery Pack

1. Lift the viewfinder up and attach the battery pack to the camcorder.
2. Connect the AC Power adapter to an AC cord and connect the AC cord to a wall socket.
3. Connect the DC cable to the DC jack socket on the camcorder.
4. Turn the Camera power switch to off, the charging indicator will start to flash showing that the battery is charging.

Blinking time	Charging rate
Once in a second	Less than 50%
Twice in a second	50% ~ 75%
Three times in a second	75% ~ 100%
On for a second and off for a second	Error - Reset the battery and DC cable.



5. When it has finished charging, disconnect the battery and AC Power adapter from the camcorder.
  - Even with the power switched off, the battery will still discharge is left connected to the camcorder.

#### Reference

- The battery pack may be charged a little at the time of purchase.
- To prevent reduction in the life and capacity of the battery pack, always remove it from the camcorder after it is fully charged.

# Preparing

## Using the Lithium Ion Battery Pack

Table of continuous recording time based on model and battery type.

Time Battery	Charging time	Continuous recording time	
		LCD ON	EVF ON
SB-L110	Approx. 2hr	Approx. 1hr 10min	Approx. 1hr 30min
SB-L220	Approx. 3hr 30min	Approx. 2hr 20min	Approx. 3hr

⌘ If you close the LCD screen, it switches off and the EVF switches on automatically.

⌘ The continuous recording times given in the table are approximate.

Actual recording time depends on usage.

⌘ If you turn on the LIGHT, the recording time becomes very short.

### Reference

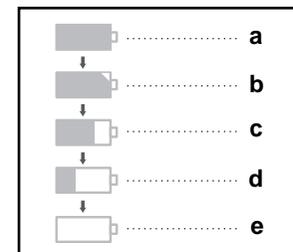
- The battery pack should be recharged in an environment of between 32°F (0°C) and 104°F (40°C). It should never be charged in a room temperature that is below 32°F (0°C).
- The life and capacity of the battery pack will be reduced if it is used in temperatures below 32°F (0°C) or left in temperatures above 104°F (40°C) for a long period, even when it is fully recharged.
- Do not put the battery pack near any heat source (fire or flames, for example).
- Do not disassemble, process, pressure, or heat the Battery Pack.
- Do not allow the + and – terminals of the battery pack to be short-circuited. It can cause leakage, heat generation, induction of fire and over heating.

## ENGLISH

# Preparing

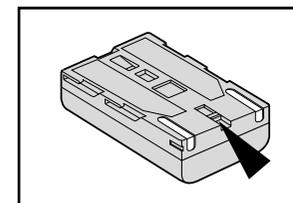
### Battery level display

- The battery level display indicates the amount of power remaining in the battery pack.
  - a. Fully charged
  - b. 10% used
  - c. Half used
  - d. Mostly used
  - e. Completely used (flickers)  
(camcorder will turn off soon, change the battery as soon as possible)
- ⚠ Please refer to the table on page 23 for approximate continuous recording times.
- ⚠ The recording time is affected by environmental temperature and conditions.  
The recording time becomes very short in a cold environment. The continuous recording time in the operating instructions is measured using a fully charged battery pack at 77°F(25°C). As the environmental temperature and conditions may be different when you actually use the camcorder, the remaining battery time may not be the same as the approximate continuous recording times given in these instructions.



### Tips for Battery Identification

A charge mark is provided on the battery pack to help you remember whether it has been charged or not. Two colours are provided (red and black)-you may choose which one indicates charged and which indicates discharged.

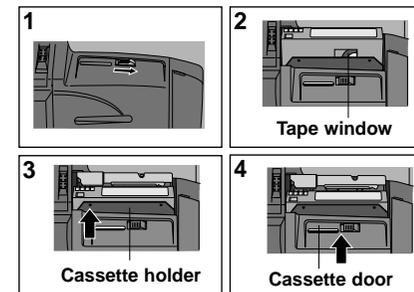


# Preparing

## Inserting and Ejecting a Cassette

- ⚠ There are three types of Mini DV CASSETTE tapes: DVM80, DVM60 and DVM30.
- ⚠ When inserting a tape or closing a cassette holder, do not apply excessive force. It can cause a malfunction.
- ⚠ Do not use tapes other than Mini DV CASSETTE.

1. Connect a power source and slide the OPEN/EJECT button the camcorder forwards and open the cassette door.
  - The cassette holding mechanism rises automatically.
2. Insert a tape into the cassette holder with the tape window facing outward and the protection tab toward the top.
3. Press the area labelled PUSH on the cassette holding mechanism until it clicks into place.
  - The cassette is loaded automatically.
4. Close the cassette door.
  - The camcorder will not operate with the cassette door open.



**Reference**

When you have recorded something that you wish to keep, you can protect it so that it will not be accidentally erased.

**a. Protecting a tape :**

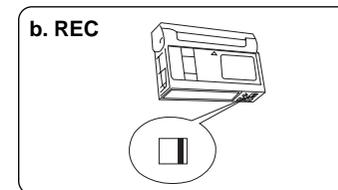
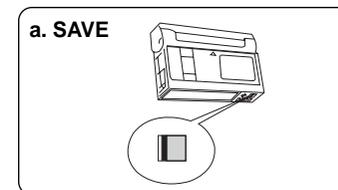
Push the safety tab on the cassette so that the hole is not covered.

**b. Removing tape protection :**

If you no longer wish to keep the recording on the cassette, push the protection tab back so that it covers the hole.

**• How to keep a tape**

- a. Avoid places where there are magnets.
- b. Avoid humidity-and-dust prone places.
- c. Keep it in an upright position and avoid storing in direct sunlight.
- d. Avoid dropping or knocking your tapes.

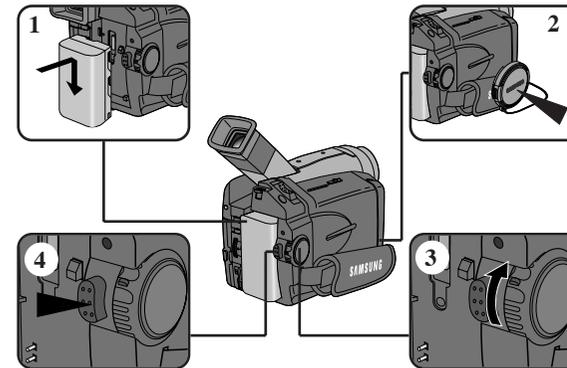


## ENGLISH

# Basic Recording

### Making your First Recording

1. Connect a Power source. (see page 21)  
(Battery pack or AC power adapter)
  - Insert a cassette. (see page 25)
2. Remove the LENS CAP and hook it onto the hand strap.
3. Set the power switch to the CAMERA position.
  - Set the mode switch to CAMCORDER position. (VP-D75(i)/D76(i)/D77(i) only)
  - Open the LCD monitor and make sure that STBY is displayed.
  - If the protection tab of the cassette is open, STOP will be displayed.
  - Make sure the image you want to record appears in the LCD monitor or viewfinder.
  - Make sure the battery level indicates that there is enough remaining power for your expected recording time.
4. To start recording, press the START/STOP button.
  - REC is displayed in the LCD.To stop recording, press the START/STOP button again.
  - STBY is displayed in the LCD.

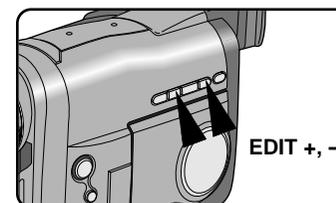


## Basic Recording

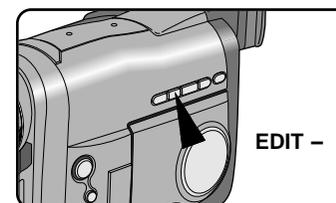
When a cassette is loaded and the camcorder is left in the STBY mode for more than 5 minutes without being used, it will switch off automatically. To use it again, push the START/STOP button or set the Power switch to OFF and then back to CAMERA. This Auto Power off feature is designed to save battery power.

### Edit Search

- ⌘ You can view a recording using with the EDIT +, - function in STBY mode.  
EDIT - enables you to play it backwards and EDIT + enables you to play it forwards, for as long as you keep each button pressed.



- ⌘ If you press the the EDIT - button quickly in STBY mode, your camcorder will play in reverse for 3 seconds and return to the original position automatically.



### Reference

- Mosaic shaped noise may appear on the screen during edit search mode.

## ENGLISH

# Basic Recording

### Hints for Stable Image Recording

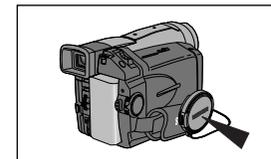
- While recording, it is very important to hold the camcorder correctly.
- Fix the LENS cap firmly by clipping it on the hand strap. (refer to figure)

#### Recording with the LCD monitor

1. Hold the camcorder firmly using the hand strap.
2. Place your right elbow against your side.
3. Place your left hand under or beside the LCD to support and adjust it.  
Do not touch the built-in microphone.
4. Choose a comfortable, stable position for the shots that you are taking.  
You can lean against a wall or on a table for greater stability. Do not forget to breathe gently.
5. Use the LCD frame as a guide to determine the horizontal plane.
6. Whenever possible, use a tripod.

#### Recording with Viewfinder

1. Hold the camcorder firmly using the hand strap.
2. Place your right elbow against your side.
3. Place your left hand under the camcorder to support it.  
Be sure not to touch the built-in microphone.
4. Choose a comfortable, stable position for the shots that you are taking.  
You can lean against a wall or on a table for greater stability. Do not forget to breathe gently.
5. Place your eye firmly against the viewfinder eyecup.
6. Use the viewfinder frame as a guide to determine the horizontal plane.
7. Whenever possible, use a tripod.

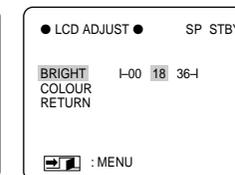
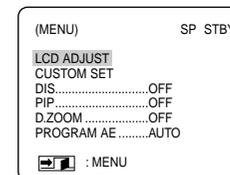
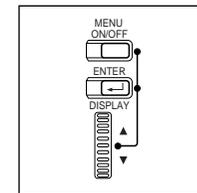


# Basic Recording

## Adjusting the LCD

- ⚠ Your camcorder is equipped with a 2.5 inch colour Liquid Crystal Display(LCD) screen, which enables you to view what you are recording or playing back directly.
- ⚠ Depending on the conditions in which you are using the camcorder (indoors or outdoors for example), you can adjust ;
  - Brightness
  - Colour

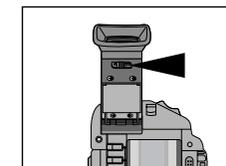
1. Set the POWER switch to CAMERA or PLAYER position.
2. Open the LCD screen, the LCD switches on.
3. Press the MENU ON/OFF button.
4. Turn the MENU DIAL so that LCD ADJUST is highlighted.
5. Press ENTER to enter the sub-menu.
6. Turn the MENU DIAL so that it highlights the menu item you want to adjust (BRIGHT, COLOUR).
7. Press ENTER again.
  - You can adjust the LCD using the MENU DIAL.
8. Press ENTER.
  - For further adjustment, repeat steps 6, 7, 8.
9. Press the MENU ON/OFF button to finish the setting.



## Using the VIEWFINDER

### Adjusting the Focus

Use the focus adjustment knob of the VIEWFINDER to focus the picture. (refer to figure )



## ENGLISH

# Basic Recording

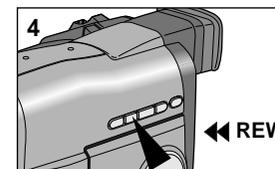
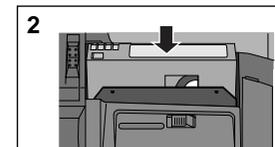
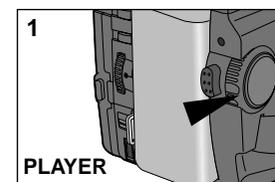
### *Playing back a tape you have recorded on the LCD*

- ⌘ You can monitor the playback picture on the LCD monitor.
- ⌘ Make sure that the battery pack is in place.

1. Hold down the tab of the Power switch and turn it to the PLAYER position.
2. Insert the tape you want to view.
3. Open the LCD screen and make sure that STOP is displayed.  
Adjust the angle of the LCD screen and set the brightness or the colour if necessary.
4. Press the ◀◀ (REW) button to rewind the tape to the start point.
  - To stop REWIND, press the ■ (STOP) button.
  - Camcorder stops automatically after rewinding.
5. Press the ▶/|| (PLAY/STILL) button to start playback.
  - You can see the picture you recorded on the LCD.
  - To stop the PLAY operation, press the ■ (STOP) button.

#### Reference

- You can also view the picture on a TV screen, after connecting the camcorder to a TV or VCR. (see page 64)
- Various functions are available in playback mode. (see page 66)



# Basic Recording

## Adjusting the LCD during PLAY

- ⌘ You can adjust the LCD during playback.
- ⌘ The adjustment method is the same procedure as used in CAMERA mode. (see page 29)

## Controlling Sound from the Speaker

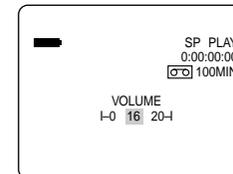
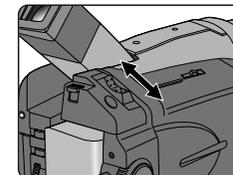
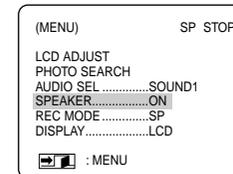
The Speaker works in PLAYER mode only.

- When you use the LCD screen for playback, you can hear the recorded sound from the built-in Speaker.
  - If you do not want to hear the sound, set SPEAKER to OFF in the menu.

1. Set the power switch to PLAYER mode.
2. Press the MENU ON/OFF button.
3. Turn the MENU DIAL to highlight SPEAKER.
4. Press the ENTER button to change the setting.
5. Press the MENU ON/OFF button to finish the SPEAKER setting.
  - If you close the LCD screen, both the screen and speaker are switched off.
  - If the speaker does not work properly, check these points;
    - Is the LCD screen closed?
    - Is the volume adjusted to a low?
    - Is the SPEAKER set to OFF?

## Volume Control

- ⌘ The volume of the Speaker is controlled by moving the ZOOM lever (Volume control) during playback.



**ENGLISH**

# Advanced Recording

## Using the Various Functions

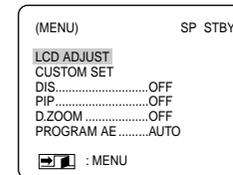
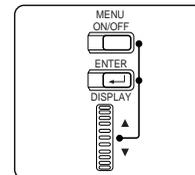
● **Setting the menu item**

Power switch	CAMERA		PLAYER	
Mode switch	CAMCORDER mode	DSC mode (VP-D75(i)/D76(i)/D77(i) only)	CAMCORDER mode	DSC mode (VP-D75(i)/D76(i)/D77(i) only)
Functions in menu	LCD ADJUST CUSTOM SET DIS PIP DIGITAL ZOOM PROGRAM AE DSE SELECT WHITE BALANCE SHUTTER SPEED IRIS REC MODE REC LAMP WIND CUT AUDIO MODE PHOTO MODE DISPLAY DATE/TIME DEMO CLOCK SETTING	PHOTO MODE QUALITY MEMORY FORMAT LCD ADJUST CUSTOM SET DIS PIP DIGITAL ZOOM PROGRAM AE DSE SELECT WHITE BALANCE SHUTTER SPEED IRIS DISPLAY DATE/TIME CLOCK SETTING	LCD ADJUST PHOTO SEARCH AUDIO SELECT SPEAKER REC MODE DISPLAY DATE/TIME	FILE COPY FILE DELETE PROTECT DPOF LCD ADJUST DISPLAY DATE/TIME

● **Set the camcorder to CAMERA or PLAYER mode.**

1. Press the MENU ON/OFF button.  
The MENU OSD is displayed.  
The cursor (**HIGHLIGHT**) indicates the feature you are currently adjusting.
2. Using the MENU DIAL and ENTER buttons on the rear side panel, select and activate the item.
3. You can exit the menu mode by pressing the MENU ON/OFF button.

**Reference** Functions in DSC mode work only in VP-D75(i)/D76(i)/D77(i).



# Advanced Recording

● Availability of functions in each mode

Requested Mode Operating Mode	Digital functions				Digital Special Effects	
	DIS	D.ZOOM	PHOTO	PIP	Sub	OTHER EFFECTS
DIS	○	○	○	○	×	○
D.ZOOM	○	○	○	○	○	○
PHOTO	×	×	○	×	×	×
PIP	○	○	△	○	△	△
DSE	GHOST	△	○	△	×	△
	OTHER EFFECTS	○	○	○	×	△

○ : The requested mode will work with the operating mode.

△ : The operating mode will be released and the requested mode will work.

×

Reference

- If the menu item displays **DISABLE** for some functions, you are not able to change that menu setting.
- When you set the IRIS mode to manual(not AUTO) mode,
  - The PROGRAM AE mode will be changed to AUTO.
- When you set the SHUTTER SPEED mode to manual (not AUTO) mode,
  - The PROGRAM AE mode will be changed to AUTO.
- When you set the PROGRAM AE mode to manual(not AUTO) mode,
  - The SHUTTER SPEED and IRIS mode will be changed to AUTO.

## ENGLISH

# Advanced Recording

### ● LCD ADJUST

- ⌘ The LCD ADJUST function works in CAMERA and PLAYER mode.  
Please see page 29.

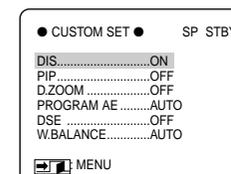
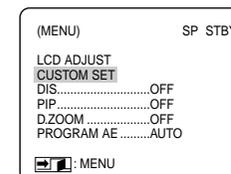
### ● CUSTOM SET

- ⌘ You can customize settings and save them for future use.
  - The CUSTOM SET function operates in CAMERA mode only.
- ⌘ If you want to use the CUSTOM function (see page 53) correctly, set the status of each item to what you want before using the CUSTOM function.
- ⌘ You can set and store the following items :
  - DIS, PIP, D.ZOOM, PROGRAM AE, DSE, SHUTTER, IRIS.

1. Set the power switch to CAMERA mode.
2. Press the MENU ON/OFF button, to bring up the MENU list.
3. Turning the MENU DIAL, select CUSTOM SET and press the ENTER button.
4. Using the MENU DIAL and ENTER button, set the status of each item to what you want.
5. To store settings and to exit the menu, press the MENU ON/OFF button .

### Reference

- If you want to activate the CUSTOM function, press the CUSTOM button in CAMERA mode.
- If you set the SHUTTER to 1/6, 1/13, 1/25 the DIS will be changed to OFF.
- If you set the IRIS to manual, the PROGRAM AE will be changed to AUTO.

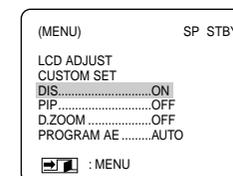
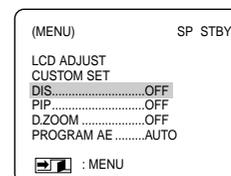


## Advanced Recording

### ● DIS (Digital Image Stabilizer)

- ⌘ The DIS function works in CAMERA mode only.
- ⌘ DIS(Digital Image Stabilizer) is a handshake compensation function that compensates for any shaking or moving of the hand holding the camcorder (within reasonable limits).
- ⌘ It provides more stable pictures when:
  - Recording with the zoom
  - Recording a small object close-up
  - Recording and walking at the same time
  - Recording through the window of a vehicle

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL highlight to DIS.
4. To activate the DIS function, press the ENTER button.
  - The DIS menu is changed to ON.
  - If you do not want to use the DIS function, set the DIS menu to OFF.
5. To exit, press the MENU ON/OFF button.



### Reference

- It is recommended that you deactivate the handshake compensation function when using a tripod.
- The DIS function will not operate in the low SHUTTER 1/6, 1/13, 1/25 mode.
- If you set DIS function to ON in GHOST mode, the GHOST mode will be switched off.
- If you use the DIS function, the picture quality may deteriorate.

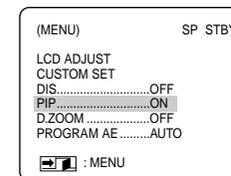
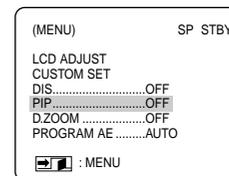
## ENGLISH

# Advanced Recording

### ● PIP (Picture-in-Picture)

- ⌘ The PIP (Picture-in-Picture) function works in CAMERA mode only.
- ⌘ The PIP feature works in combination with the various functions by using a small, super imposed screen to show an original image (Ex. Digital Zoom). This should help you to get a more clear idea of what you are shooting.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight PIP.
4. To activate the PIP function, press the ENTER button.
  - The PIP menu is changed to ON.
  - If you do not want to use the PIP function, set the PIP menu to OFF.
5. To exit, press the MENU ON/OFF button.



### Reference

- When you use the PIP function, the PIP screen will be recorded on the tape.
- The PIP function will not operate in the DSE function.
- If you set the SHUTTER to manual (1/6, 1/13, 1/25) in PIP mode, the PIP will disappear.



# Advanced Recording

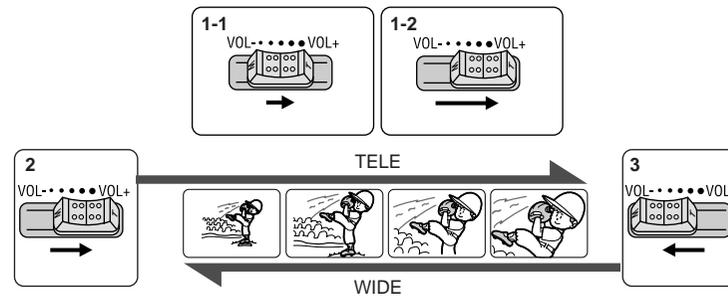
## ● Zooming In and Out with DIGITAL ZOOM

⌘ Zoom works in CAMERA mode only.

### Zooming In and Out

- ⌘ Zooming is a recording technique that lets you change the size of the subject in the scene. For more professional looking recordings, do not use the zoom function too often.
- ⌘ You can zoom using a variable zoom speed.
- ⌘ Use these features for different shots; Please note that over use of the zoom feature can lead to unprofessional looking results and a reduction of battery usage time.

1. Move the zoom lever a little for a gradual zoom, move it further for a high-speed zoom. Your zooming is monitored on the OSD.
2. T(Telephoto) side:  
Subject appears closer.
3. W(Wide angle) side:  
Subject appears farther away.



### Reference

You can record a subject that is a minimum of 1 m (about 2.65 feet) away from the lens surface in the TELE position, or about 10 mm (about 0.5 inch) away in the WIDE position.

## ENGLISH

# Advanced Recording

## Digital Zoom

- ⌘ More than 22x zoom is achieved digitally.
- ⌘ The picture quality deteriorates the more you zoom in on the subject.
- ⌘ We recommend that you use the DIS feature with the DIGITAL ZOOM for picture stability.

1. Set the camcorder to CAMERA mode.

2. Press the MENU ON/OFF button.

- The menu list will appear.

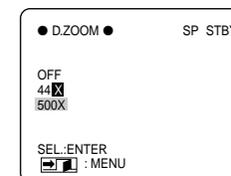
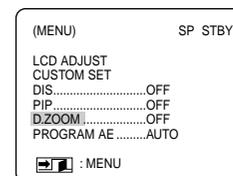
3. Turn MENU DIAL to D.ZOOM.

4. Press the ENTER to enter the sub-menu.

5. Turn the MENU DIAL so that it highlights the zoom magnification.

- Press ENTER to activate the digital zoom and return to main menu.
- If you exit the sub-menu without pressing the ENTER button, the DIGITAL ZOOM mode is not changed.

6. To exit, press the MENU ON/OFF button.



## Reference

- If you use the digital zoom function, the picture quality may deteriorate.

# Advanced Recording

## ● PROGRAM AE

- ⌘ The PROGRAM AE function works in CAMERA mode only.
- ⌘ The PROGRAM AE modes allow you to adjust shutter speeds and apertures to suit different shooting conditions.
- ⌘ They give you creative control over the depth of field.

### ■ AUTO mode

- Auto balance between the subject and the background.
- To be used in normal conditions.
- The shutter speed automatically varies from 1/50 to 1/250 second, depending on the scene.

### ■ PORTRAIT mode ( )

- For focusing on the background of the subject, when the background is out of focus.
- The PORTRAIT mode is most effective when used outdoors.
- The shutter speed automatically varies from 1/50 to 1/1000 second.

### ■ SPORT mode ( )

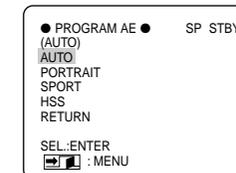
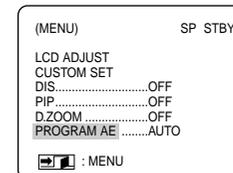
- For recording people or objects moving quickly.

### ■ HSS mode ( )

- For shooting fast-moving subjects such as the players in golf or tennis games.

## Setting the PROGRAM AE

1. Press the MENU ON/OFF button.
  - The menu list will appear.
2. Turn the MENU DIAL to highlight PROGRAM AE.
3. Press ENTER to enter the sub-menu.
4. Using the MENU DIAL, select the PROGRAM AE mode.
  - Press ENTER to confirm the program AE mode.
5. To exit, press the MENU ON/OFF button.

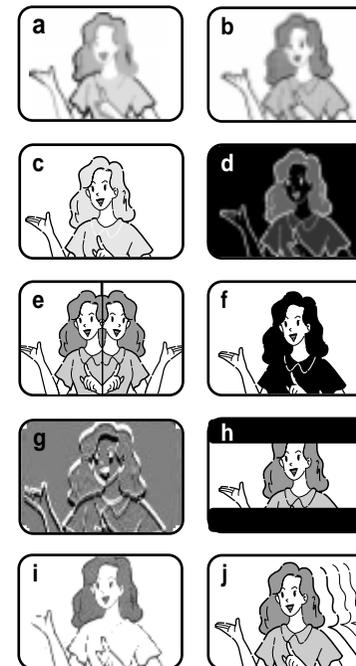


## ENGLISH

# Advanced Recording

### ● DSE(Digital Special Effects) SELECT

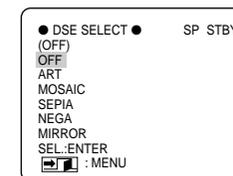
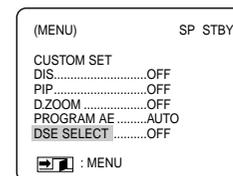
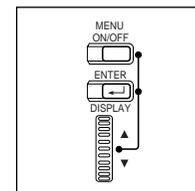
- ⌘ The DSE function works in CAMERA mode only.
  - ⌘ The digital effects enable you to give a creative look to your recording by adding various special effects.
  - ⌘ Select the appropriate digital effect for the type of picture that you wish to record and the effect that you wish to give.
  - ⌘ There are 10 DSE modes.
- a. ART mode  
This mode gives the images a coarse effect.
  - b. MOSAIC mode  
This mode gives the images a mosaic effect.
  - c. SEPIA mode  
This mode gives the images a reddish-brown pigment.
  - d. NEGA mode  
This mode reverses the colours of the image creating a negative image.
  - e. MIRROR mode  
This mode cuts the picture in half, using a mirror effect.
  - f. B/W mode  
This mode changes the images to black and white.
  - g. EMBO mode  
This mode creates a 3D effect (embossing).
  - h. CINEMA mode  
This mode covers the upper/lower portions of the screen to give a movie-like effect.
  - i. MAKE UP mode  
This mode allows the images to be selected in red, yellow, green or blue colours.
  - j. GHOST mode  
This mode gives the images a dragging effect.



# Advanced Recording

## Selecting an effect

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight DSE SELECT.
4. Press ENTER to enter the sub-menu.
5. Using the MENU DIAL, select the DSE mode.
  - Press ENTER to confirm the DSE mode.
    - In MAKE-UP mode, a MENU list for selecting RED/GREEN/BLUE /YELLOW will appear.
6. To exit, press the MENU ON/OFF button.



## Reference

- If you select the DSE mode with the PIP mode, the PIP mode will be switched off.
- GHOST function will not operate in DIS and 1/6, 1/13, 1/25 SHUTTER mode.

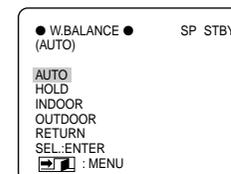
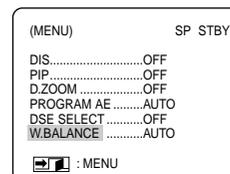
## ENGLISH

# Advanced Recording

### ● W.BALANCE (WHITE BALANCE)

- ⌘ The WHITE BALANCE function works in CAMERA mode only.
- ⌘ The WHITE BALANCE is a recording function that preserves the unique colour of the object in any recording condition.
- ⌘ You may select the appropriate WHITE BALANCE mode to obtain good quality colour of the image.
  - AUTO : This mode is generally used to control the WHITE BALANCE automatically.
  - HOLD : It fixes the current WHITE BALANCE value.
  - INDOOR : It controls WHITE BALANCE according to the indoor ambience.
  - OUTDOOR : It controls WHITE BALANCE according to the outdoor ambience.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight W.BALANCE.
4. Press ENTER to enter the sub-menu.
5. Using the MENU DIAL, select the WHITE BALANCE mode.
  - Press ENTER to confirm the WHITE BALANCE mode.
6. To exit, press the MENU ON/OFF button.

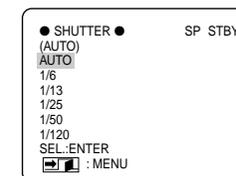
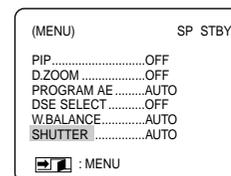


# Advanced Recording

## ● SHUTTER

- ⌘ The SHUTTER SPEED function works in CAMERA mode only.
- ⌘ The shutter speed can be controlled, allowing you to shoot both fast and slow moving objects.
  - You can select one of the following.  
 AUTO, 1/6, 1/13, 1/25, 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 second.  
 AUTO is fixed at 1/50 second.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight SHUTTER.
4. Press ENTER to enter the sub-menu.
5. Using the MENU DIAL, select the SHUTTER SPEED mode.
  - Press ENTER to confirm the SHUTTER SPEED mode.
6. To exit, press the MENU ON/OFF button.



### Reference

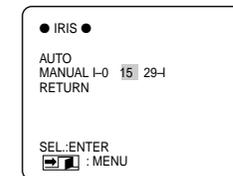
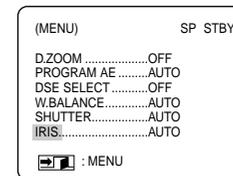
- The SHUTTER SPEED function will not operate with either the DIS or the GHOST modes ON.

## ENGLISH

# Advanced Recording

### ● IRIS

- ⌘ The IRIS function works in CAMERA mode only.
  - ⌘ The IRIS controls the quantity of light entering through the lens.
  - ⌘ If you select a higher value, the iris opens, and the image will be brighter.  
If you select a lower value, the iris will be closed more, and the image will be darker.
    - You can select one of the following.
      - AUTO : It selects the iris value for the proper exposure.
      - MANUAL: 0 ~ 29
1. Set the camcorder to CAMERA mode.
  2. Press the MENU ON/OFF button.
    - The menu list will appear.
  3. Turn the MENU DIAL to highlight IRIS.
  4. Press the ENTER to enter the sub-menu.
    - If you want to use manual mode, select MANUAL and press ENTER.
    - Using the MENU DIAL, select the IRIS value.
  5. To exit, press the MENU ON/OFF button.

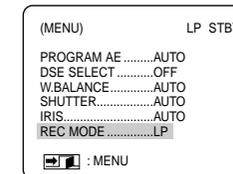
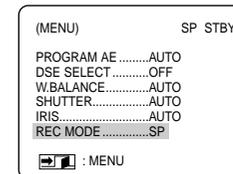


# Advanced Recording

## ● REC MODE

- ⌘ The REC MODE function works in both CAMERA and PLAYER modes.
- ⌘ This camcorder records and plays back in SP (standard play) mode and in LP (long play) mode.
  - SP (standard play): This mode permits 60 minutes of recording time with a DVM60 tape.
  - LP (long play): This mode permits 90 minutes of recording time with a DVM60 tape.

1. Set the camcorder to CAMERA or PLAYER mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight REC MODE.
4. To select the REC MODE, press the ENTER button.
  - The REC MODE switches between SP and LP with each press.
5. To exit, press the MENU ON/OFF button.



## Reference

- We recommend that you use this camcorder to play back any tape recorded on this camcorder. Playing back a tape recorded in other equipment may produce mosaic shaped noise.
- When you record in SP and LP modes on one tape or you record some scenes in LP mode, the playback picture may be distorted or the time code may not be written properly between scenes.
- Record using SP mode for best picture and sound quality.

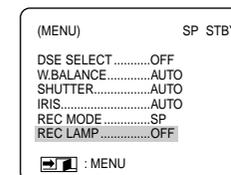
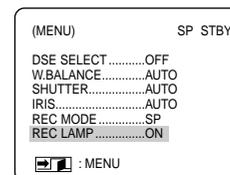
## ENGLISH

# Advanced Recording

### • REC LAMP

- ⌘ The REC LAMP function works in CAMERA mode only.
- ⌘ You can turn the REC indicator on or off during recording.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight REC LAMP.
4. To turn the REC indicator ON or OFF during recording, press the ENTER button.
  - The REC LAMP menu is changed to ON or OFF respectively.
  - If you want to turn off the indicator, set the REC LAMP to OFF.
5. To exit, press the MENU ON/OFF button.



### • WIND CUT

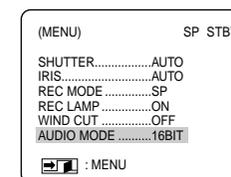
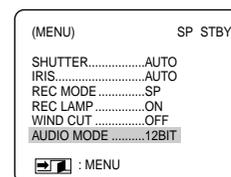
- ⌘ The WIND CUT function works in CAMERA mode only.
- ⌘ The WIND CUT function minimizes wind noise or other noise during recording.
  - When the wind cut is on, some low sounds are cut out along with the sound of the wind.
- The WIND CUT selecting method is the same as the REC LAMP mode.

## Advanced Recording

### ● AUDIO MODE

- ⌘ The AUDIO MODE function works in CAMERA mode only.
- ⌘ This camcorder records the sound in two ways. (12BIT, 16BIT)
  - 12BIT: You can record two 12bit stereo sound tracks.  
The original stereo sound can be recorded onto the MAIN (SOUND1) track.  
Additional stereo sound can be dubbed onto the SUB (SOUND2) track.
  - 16BIT: You can record one high quality stereo sound using the 16bit recording mode.  
Audio dubbing is not possible when using this mode.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight AUDIO MODE.
4. To select the AUDIO MODE, press the ENTER button.
  - The AUDIO MODE switches between 12BIT-16BIT with each press.
5. To exit, press the MENU ON/OFF button.



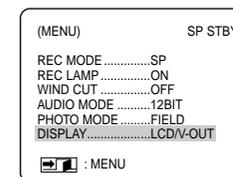
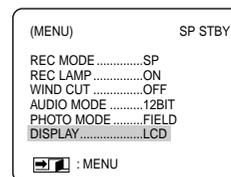
## ENGLISH

# Advanced Recording

### ● DISPLAY

- ⌘ The DISPLAY function works in CAMERA and PLAYER mode.
- ⌘ You can select the output path of OSD (On Screen Display).
- ⌘ There are two ways;
  - LCD: The OSD appears in the LCD screen and EVF only.
  - LCD/V-OUT: The OSD appears in the LCD screen, EVF and TV.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight DISPLAY.
4. To select the DISPLAY mode, press the ENTER button.
  - The DISPLAY mode switches between LCD - LCD/V-OUT with each press.
5. To exit, press the MENU ON of OFF button.
  - Turning OSD ON or OFF.
    - Press the ENTER button on the rear side panel.

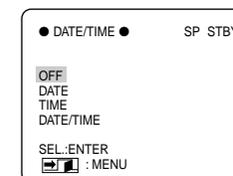
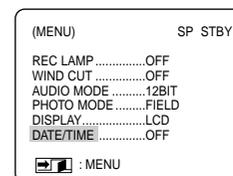


# Advanced Recording

## ● DATE/TIME

- ⌘ The DATE/TIME function works in both CAMERA and PLAYER modes.
- ⌘ The date and time is automatically recorded on a special data area of the tape.
- ⌘ You can choose to display - either the date, time or both.
  - DATE only
  - TIME only
  - DATE/TIME

1. Press the MENU ON/OFF button.
  - The menu list will appear.
2. Turn the MENU DIAL to DATE/TIME.
3. Press ENTER to enter the sub-menu.
4. Using the MENU DIAL, select the DATE/TIME mode.
  - Press ENTER to confirm the DATE/TIME mode and return to the main menu.
  - If you exit the sub-menu without pressing ENTER, the DATE/TIME mode is not changed.
5. To exit, press the MENU ON/OFF button.



## Reference

- The DATE/TIME is not affected by the OSD ON/OFF (ENTER) button.
- The DATE/TIME will read “---” in the following conditions.
  - During playback of a blank section of tape.
  - If the tape was recorded before setting the DATE/TIME in the camera's memory.

## ENGLISH

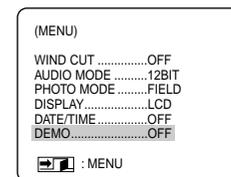
# Advanced Recording

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### • DEMO

- ⌘ Demonstration automatically shows you the major functions that are included with your camcorder so that you may use them more easily.
- ⌘ The DEMO function is only available in CAMERA mode when you are not recording.
- ⌘ The demonstration operates repeatedly until the DEMO mode is set to OFF.

1. Set the camcorder to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight DEMO.
4. To activate the DEMO function, set the DEMO to ON.
  - Press the menu button to quit the menu.
  - The demonstration will start.
5. To end the demonstration, set the DEMO to OFF.



### Reference

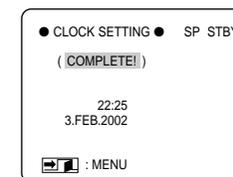
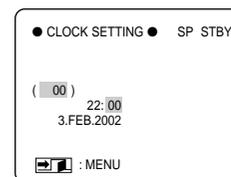
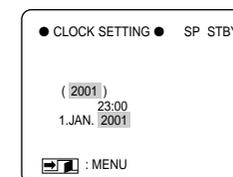
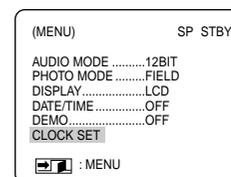
- The DEMO function only works without a TAPE installed.
- If you set the DEMO to ON during recording or STBY mode, the demonstration will activate 3 minutes later after the tape ejecting.
- If you press other keys (ZOOM, FADE, BLC, PHOTO, EASY, CUSTOM) during the DEMO mode, the DEMO stops for a while and resume the demonstration if you do not operate any other functions within 3 minutes.

# Advanced Recording

## ● CLOCK SET

- ⌘ Setting the CLOCK only works in CAMERA mode.
- ⌘ The DATE/TIME is automatically recorded on a tape.  
Before recording, please set the DATE/TIME.

1. Press the MENU ON/OFF button.
  - The menu list will appear.
2. Turn the MENU DIAL to highlight CLOCK SET.
3. Press the ENTER button to enter the SETTING mode.
  - BLINKING indicates the setting to be changed.  
The year will be the first to blink.
4. Using the MENU DIAL, change the year setting.
5. Press the ENTER button.
  - The month will blink.
6. Using the MENU DIAL, change the month setting.
7. Press the ENTER button.
  - The day will blink.
8. You can set the day, hour and minute following the same procedure used for setting year and month.
9. Press ENTER after setting the minute.
  - **COMPLETE!** will blink, and then a few seconds later, the menu screen will return to main menu.



## ENGLISH

# Advanced Recording

## EASY Mode (for Beginners)

⚠ Even a beginner can make a recording using the EASY mode.

- The EASY mode only operates in CAMERA mode.

1. Set the power switch to CAMERA mode.

2. By pressing the EASY button, all the functions on the camera will be set to off and the recording settings will be set to the following basic mode.

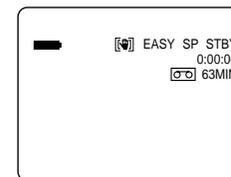
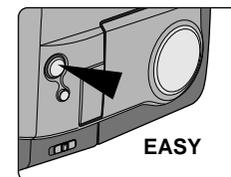
- Battery level, recording mode, counter, DATE/TIME, DIS ( [EASY] ) will be displayed.
- The word "EASY" will appear on the LCD at the same time.  
However, the DATE/TIME will only be seen if it has been previously set.  
(see page 49)

3. Press START/STOP to start recording.

- Recording will begin using the basic automatic settings.

4. Pressing the EASY button again turns the EASY mode off.

- The camera will return to the settings that were set prior to the EASY mode being switched on.



## Reference

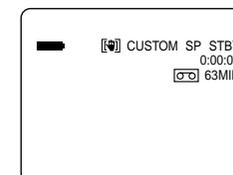
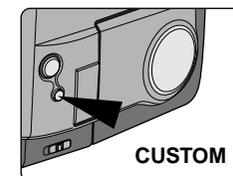
- In the EASY mode, certain functions are not available, such as MENU, BLC, FADE, MF/AF.
  - If you want to use these functions, you must first switch the EASY mode off.
- The EASY mode settings are stored in the camera (provided a good lithium battery has been installed).

## Advanced Recording

### *CUSTOM Mode*

- ⌘ You can customize settings and save them for future use.
  - The CUSTOM SET function operates in CAMERA mode only.
- ⌘ Please set custom settings before using this function. (see page 34)

1. Set the power switch to CAMERA mode.
2. To activate the CUSTOM function, press the CUSTOM button.
  - "CUSTOM" will be displayed on the screen.
3. Press START/STOP to start recording.
  - Recording will begin using the CUSTOM settings.
4. To switch the CUSTOM mode off, press the CUSTOM button again.
  - The camcorder will revert to the settings that were set prior to the custom mode being selected.



#### Reference

- In CUSTOM mode, you cannot change settings of CUSTOM SET items.
  - If you want to change custom settings, you must switch the CUSTOM mode off.
- The CUSTOM settings will be stored in the camera (providing a good lithium battery has been installed).

## ENGLISH

# Advanced Recording

## MF/AF (Manual Focus/Auto Focus)

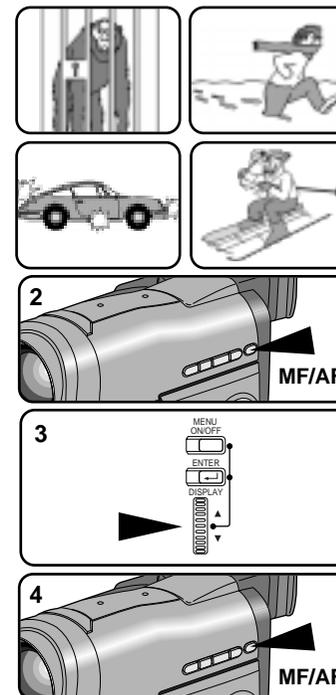
- ⌘ The MF/AF function works in CAMERA mode only.
- ⌘ In most situations, it is better to use the automatic focus feature, as it enables you to concentrate on the creative side of your recording.
- ⌘ Manual focusing may be necessary under certain conditions that make automatic focusing inadequate.

### Auto Focusing

- ⌘ If you are inexperienced with camcorders, we recommend that you make use of the Auto Focus mode.

### Manual Focusing

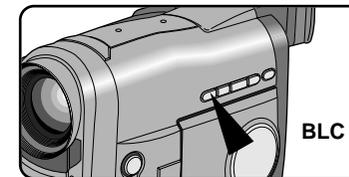
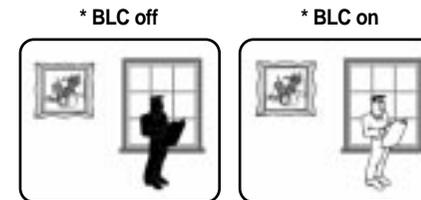
- ⌘ In the following cases you could obtain better results by adjusting the focus manually.
    - A picture containing several objects, some close to the camcorder, others further away.
    - A person enveloped in fog or surrounded by snow.
    - Very shiny or glossy surfaces like a car.
    - People or objects moving constantly or quickly like an athlete or crowd.
1. Set power switch to CAMERA mode.
  2. Press MF/AF (  ) button.
  3. Turn MF DIAL (MENU DIAL) up or down until the object is focused.
    - Zoom out a little if focusing is difficult.
  4. To return to AF(Auto Focus), press the MF/AF button again.



## Advanced Recording

### *BLC (Back Light Compensation)*

- ⌘ BLC works in CAMERA mode.
  - ⌘ Back lighting exists when the subject is darker than the background:
    - The subject is placed in front of a window.
    - The person to be shot is wearing white or shiny clothes and is placed against a bright background; the person's face is too dark to distinguish their features.
    - The subject is in the outdoors and the background is overcast.
    - The light sources are too bright.
    - The subject is against a snowy background.
1. Set the power switch to CAMERA mode.
  2. Press the BLC button.
    - Normal - BLC - Normal
    - BLC enhances only the subject.



**ENGLISH**

# Advanced Recording

## Fade In and Out

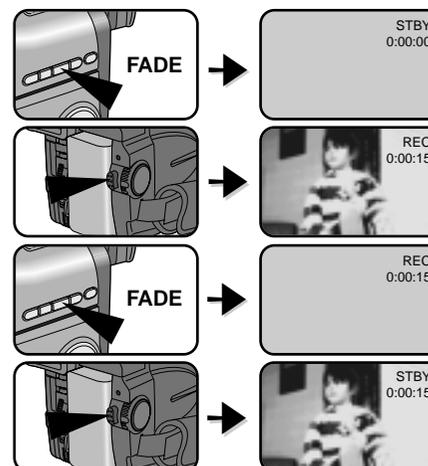
- ⌘ The FADE function works in CAMERA mode only.
- ⌘ You can give your films a professional look by using special effects such as fade in at the beginning of a sequence or fade out at the end of a sequence.

### To Start Recording

1. Before shooting, hold down the FADE button.  
The picture and sound gradually disappears (fade out).
2. Press the START/STOP button and at the same time release the FADE button.  
Recording starts and the picture and sound gradually appears (fade in).

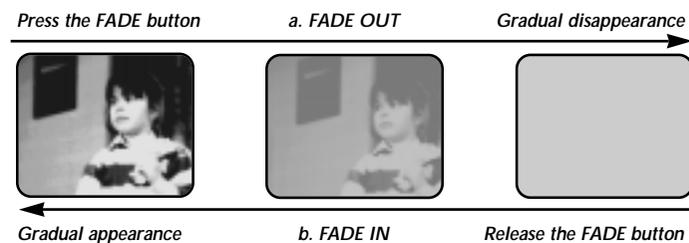
### To Stop Recording (use FADE IN / FADE OUT)

3. When you wish to stop shooting, hold down FADE button.  
The picture and sound gradually disappears (fade out).
4. When the picture has disappeared, press START/STOP button to stop recording.



**a. FADE OUT**  
(Approx. 4 seconds)

**b. FADE IN**  
(Approx. 4 seconds)



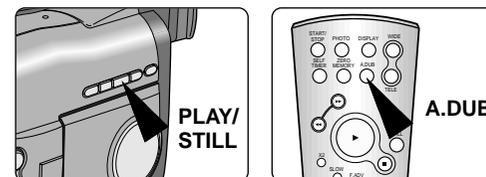
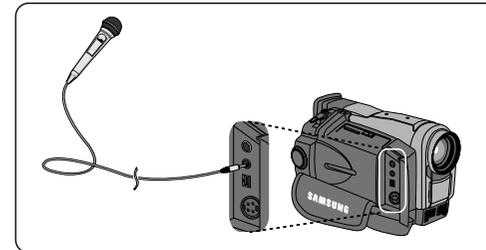
## Advanced Recording

### Audio dubbing

- ⌘ The AUDIO DUBBING function only works in PLAYER Mode.
- ⌘ You can add sound to the original sound on a pre-recorded tape, recorded in the SP mode with 12bit sound.
- ⌘ Use the internal, an external microphone or other audio equipment.
- ⌘ The original sound will not be erased.

#### Record the sound again using MIC dubbing.

1. Set the camcorder to PLAYER mode
  - If you want to use the external microphone, connect the microphone to the external MIC input on the camcorder.
2. Press ►/|| (PLAY/STILL) button and find the start position of the scene to be dubbed.
3. Press ►/|| (PLAY/STILL) button to pause the scene.
4. Press A.DUB button on the Remote Control
  - A.DUB will be displayed in the LCD.
  - The camcorder is in a ready-to-dub state for dubbing.
5. Press the ►/|| (PLAY/STILL) button to start dubbing.
  - Press the ■ (STOP) button to stop the dubbing.



- Reference** ■ You can not dub sound on a pre-recorded tape recorded in LP mode or 16 bit mode.

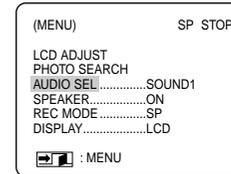
## ENGLISH

# Advanced Recording

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### Playing back dubbed Audio

1. Insert the dubbed tape and press the MENU ON/OFF.
2. Turn the MENU DIAL to highlight AUDIO SEL.
3. Press ENTER to enter the sub-menu.
4. Using the MENU DIAL, select the AUDIO playback channel.
  - Press ENTER to confirm the audio playback channel and return to main menu.
    - SOUND1 : play the original sound.
    - SOUND2 : play the dubbed sound.
    - MIX : playback an equally mixed sound of SOUND1 and 2.
5. To exit, press the MENU ON/OFF button.



### Reference

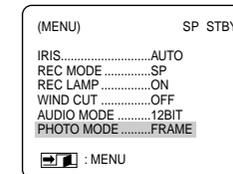
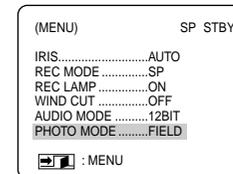
- When you playback added sound (SOUND2 or MIX mode), the sound may be broken or loss in sound quality may be experienced.

# Advanced Recording

## PHOTO

- ⌘ The PHOTO function lets you capture an object as a still along with sound, while in CAMERA mode.
- ⌘ You can select one of these PHOTO modes ;
  - FIELD : You can record a normal resolution still picture.
  - FRAME: You can record a high resolution still picture.
    - If you shoot a fast moving subject in this mode, you may get a duplicated still picture.
    - We recommend you use this mode to shoot a motionless picture.

1. Set power switch to CAMERA mode.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Using the MENU DIAL to PHOTO MODE.
4. Turn the PHOTO mode, press the ENTER button.
  - The PHOTO MODE is changed to [FIELD - FRAME] repeatedly.
5. To exit, press the MENU ON/OFF button.



## ENGLISH

# Advanced Recording

### Taking a still picture

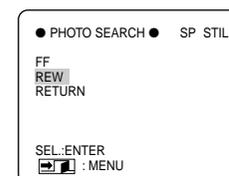
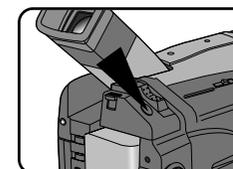
1. Press the PHOTO button.
  - The still picture appears on the LCD monitor or viewfinder.
  - To quit the PHOTO mode without recording, press the PHOTO button again.
2. Press the START/STOP button.
  - The still picture is recorded for about 8 seconds.
3. After the PHOTO recording, PHOTO mode is canceled.

### Reference

- To record the still picture, you must press the START/STOP button.
- If you press the PHOTO button in the GHOST or PIP mode, the GHOST or PIP mode will be released.
- If you use the PHOTO function, the picture quality may deteriorate.

### Searching for PHOTO picture

- ⌘ The PHOTO SEARCH works in PLAYER mode only.
1. Press the MENU ON/OFF button.
    - The menu list will appear.
  2. Turn the MENU DIAL to highlight PHOTO SEARCH.
  3. Press ENTER to enter the sub-menu.
  4. Using the MENU DIAL, select the search direction
    - Press the ENTER button.
    - After searching, the camcorder displays the still image and automatically returns to main menu.
  5. To exit, press the MENU ON/OFF button.



## Advanced Recording

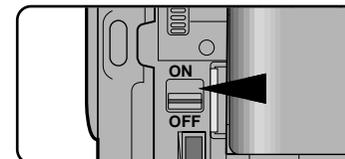
### Using the VIDEO LIGHT

- ⌘ VIDEO LIGHT works in CAMERA mode only.
- ⌘ To brighten the scene when natural lighting is too dim.
- ⌘ VIDEO LIGHT works in SP mode only.
  - If you turn on the LIGHT in LP mode, the LIGHT indicator (  ) and "LP" will be blinking in the LCD.

#### 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 can remain extremely hot for some time.
- Do not use near flammable or explosive materials.
- It is recommended that you consult your nearest SAMSUNG for bulb replacement.
  - The life of the bulb is approximately 50 hours.

1. Set the camcorder to the CAMERA mode.
2. Set the LIGHT switch to ON.
  - The LIGHT indicator (  ) appears in the LCD and the light is turned on.
3. If you want to turn off the VIDEO LIGHT, set the LIGHT switch to OFF.



#### Reference

- The LIGHT is turned off automatically during EJECTING or tape INSERTING.
- Even if the battery indicator (  ) does not blink when the battery pack's charge is low, the camcorder may turn off automatically when you turn on the LIGHT, or when you start recording with LIGHT turned on.
- The built-in light is used as a subsidiary light, it may not be enough for outdoor lighting.
- The picture quality may deteriorate if you use the VIDEO LIGHT continuously for more than 20 minutes.
- If you turn on the LIGHT in 1/6, 1/13, 1/25 SHUTTER mode, the manual SHUTTER mode will be switched off.
- The SHUTTER mode does not operate when the LIGHT is on.

**ENGLISH**

# Advanced Recording

## Lighting Techniques

- ⌘ The single greatest influence on picture quality is the level of light, measured in lux.
- ⌘ The following table lists a few common conditions of usage, along with the corresponding level of brightness and any associated lighting recommendations.

Situations	Brightness(Lux)	Recommendations
<ul style="list-style-type: none"> <li>• Snow-covered mountains or fields.</li> <li>• Sandy beach on a hot summer's day.</li> </ul>	100,000	ND filter recommended.
<ul style="list-style-type: none"> <li>• Sunny around midday.</li> <li>• Sunny day in the middle of the afternoon.</li> <li>• Overcast day around midday.</li> <li>• Overcast day one hour after sunrise.</li> <li>• Office with fluorescent lighting near to a window.</li> <li>• Sunny day one hour before sunset.</li> <li>• Department store counter.</li> <li>• Station ticket counter.</li> </ul>	100,000 35,000 32,000 2,000 1,000 1,000 500 to 700 650	Normal recording.
<ul style="list-style-type: none"> <li>• Office with fluorescent lighting.</li> <li>• Room lit by two 30W fluorescent lights.</li> </ul>	400 to 500 300	Video light recommended.
<ul style="list-style-type: none"> <li>• Arcade at night.</li> <li>• Theater (theatre) lobby.</li> <li>• Candle light.</li> </ul>	150 to 200 15 to 30 10 to 15	Video light required.

## After Recording

1. Eject the tape you have recorded. (see page 25)
2. If you want to protect a tape against accidental erasure, move the protective tab on the cassette.
3. Set the POWER switch to OFF.
4. Close the LENS cover.
5. Remove the BATTERY PACK from the camcorder.

# Advanced Recording

## Various Recording Techniques

⚠ In some situations different recording techniques may be required for more dramatic results.

**Reference**

Please rotate the LCD screen carefully over rotation may cause damage to the inside of the hinge that connects the LCD screen to the Camcorder.

### 1. General recording.



### 2. Downward recording.

Making a recording by looking at the LCD screen from the top.



### 3. Upward recording.

Making a recording by looking at the LCD screen from the bottom.



### 4. Self record

Making a recording by looking at the LCD screen from the front.

**Reference**

When the LCD screen faces front, indications are turned off.



### 5. Recording with Viewfinder.

- In circumstances where it is difficult to use the LCD monitor, the viewfinder can be used as a convenient alternative.



## ENGLISH

# Playing back a tape

- ⌘ To watch a tape you recorded.
- ⌘ Playback function works in PLAYER mode only.

## To watch with the LCD

- ⌘ It is practical to view a tape using the LCD is a car or outdoors.

## To watch with a TV monitor

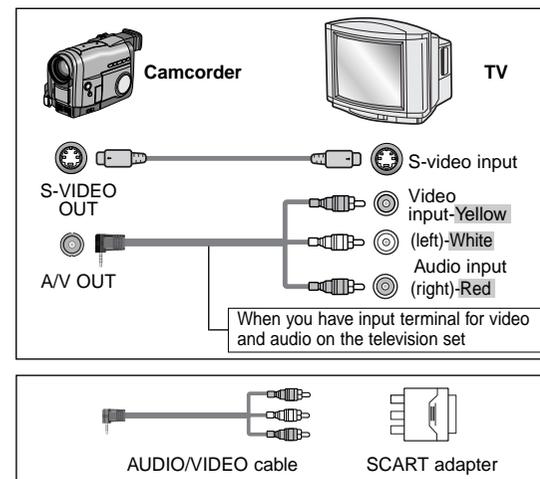
- ⌘ To play a tape back, the TV must feature a compatible colour system.
- ⌘ We recommend that you use the AC Power Adapter as the power source of the camcorder.

## Connecting to a TV which has Audio and Video input jack

1. Connect the camcorder and TV with the Audio/Video cable.
  - The yellow plug : Video
  - The white plug : Audio(L)
  - The red plug : Audio(R) – STEREO only
    - If you connect with monaural TV or VCR, connect yellow plug (Video) to video input of TV or VCR and white plug (Audio L) to audio input of TV or VCR.
  - ⌘ You can use the supplied SCART adapter.
2. Set the power switch of camcorder to PLAYER.
3. Turn on a TV and set the TV/VIDEO selector on the TV to VIDEO.
  - Refer to Instruction Book of TV or VCR.
4. Playback a tape.

### Reference

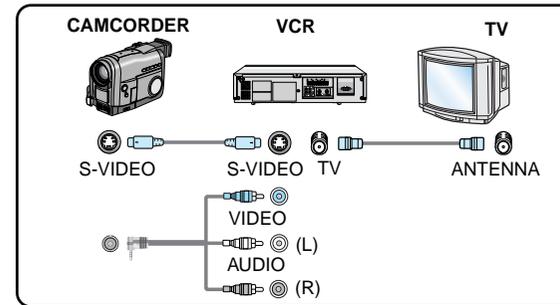
- You can use the S-VIDEO cable to obtain better quality pictures if you have a S-VIDEO connector on your TV.
- Even if you use S-video cable, you must connect an audio cable.



## Playing back a Tape

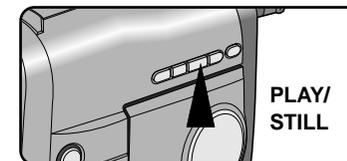
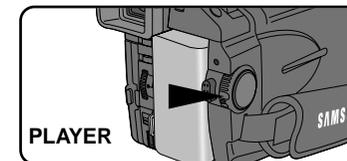
### Connecting to a TV which has no Audio and Video input jack

- ⚙ You can connect your camcorder to a TV through a VCR.
1. Connect the camcorder and VCR with the Audio/Video cable.
    - The yellow plug : Video
    - The white plug : Audio(L)
    - The red plug : Audio(R) – STEREO only
  2. Connect a TV with the VCR.
  3. Set the power switch of camcorder to PLAYER.
  4. Turn on the TV and VCR.
    - Set the input selector on the VCR to LINE.
    - Turn on the TV and select the channel reserved for your VCR on the TV.
  5. Playback a tape.



### Playback

- ⚙ You can play the recorded tape in PLAYER mode.
1. Connect a power source and  
Set power switch to PLAYER.
    - Set the mode switch to CAMCORDER. (VP-D75(i)/D76(i)/D77(i) only)
  2. Insert a tape you want to see.
  3. Using ►► (FF) and ◀◀ (REW) buttons, find the first position that you want to see.
  4. Press the ►/|| (PLAY/STILL) button.
    - The picture you recorded appears on the TV after a few seconds.
    - If the tape reaches its end during playback, the tape will rewind automatically.



### Reference

- It is best to decrease the volume of the built-in speaker when your camcorder is connected to the TV.
- The playback mode (SP/LP) is selected automatically.

## ENGLISH

# Playing back a Tape

### Various Functions in PLAYER mode

- ⌘ The PLAY/STILL, STOP, FF, REW, SLOW buttons are located on the camcorder and the Remote Control.
- ⌘ The F.ADV(Frame advance), X2 buttons are located on the Remote Control only.
- ⌘ To prevent tape and head-drum wear, your camcorder will automatically stop if it is left for more than 3 minutes in STILL or SLOW mode.

### Playback pause

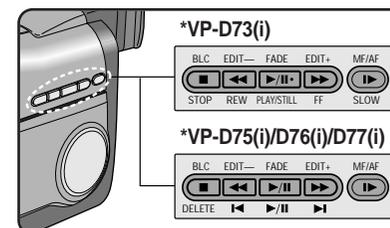
- ⌘ Press the ►/|| (PLAY/STILL) button during Playback or Slow playback
- ⌘ To resume playback, press the ►/|| (PLAY/STILL) button.

### Picture search (Forward/Reverse)

- ⌘ Press ►►(FF) or ◀◀ (REW) buttons once during Playback or Still mode.  
To resume normal playback, press the ►/|| (PLAY/STILL) button.
- ⌘ Keep pressing ►►(FF) or ◀◀ (REW) buttons during Playback or Still mode.  
To resume normal playback, release the button.

### Slow playback (Forward/Reverse)

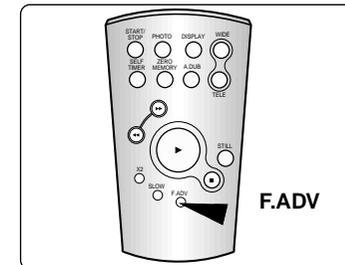
- ⌘ Forward Slow Playback
  - Press the SLOW button during Playback.
  - To resume normal playback, press the ►/|| (PLAY/STILL) button.
- ⌘ Reverse slow playback
  - Press the ◀◀ (REW) button during Forward Slow Playback.
  - To resume forward slow playback, press the ►► (FF) button.
  - To resume normal playback, press the ►/|| (PLAY/STILL) button.



## Playing back a Tape

### Frame advance (To playback frame by frame)

- ⌘ Press the F.ADV button on the Remote Control in Still mode.  
The F.ADV function works in still mode only.
- ⌘ To resume normal playback, press the ►/|| (PLAY/STILL) button.



### X2 Playback (Forward/Reverse )

- ⌘ Forward X2 Playback
  - Press the X2 button on the Remote Control during Playback.
  - To resume normal playback, press the ►/|| (PLAY/STILL) button.
- ⌘ Reverse X2 Playback
  - Press the ◀◀ (REW) button during Forward X2 Playback
  - To resume normal playback, press the ►/|| (PLAY/STILL) button.

### Reference

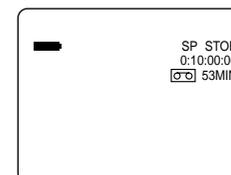
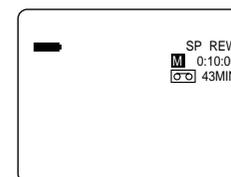
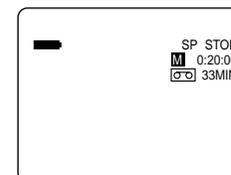
- Mosaic shaped noise appears on the screen during some of various playback modes.
  - Mosaic shaped noise can be experienced when you playback tapes recorded in LP containing various playback functions.
- There is no sound when using some playback functions.

## ENGLISH

# Playing back a Tape

### ZERO MEMORY

- ⌘ The MEMORY function works in both CAMERA and PLAYER modes.
  - ⌘ You can mark a point on a tape that you want to return to following playback.
1. Press the ZERO MEMORY button on the remote control during playback or recording at the point you want to return to later.
    - The time code is changed to a tape counter that is set to zero memory with the **M** (Zero memory indicator)
    - If you want to cancel the zero memory function, press the ZERO MEMORY button again.
  2. Find the zero position.
    - When you have finished playback, fast forward or rewind the tape.
      - The tape stops automatically when it reaches the zero position.
    - When you have finished recording, turn the power switch PLAYER and press the **◀◀**(REW) button.
      - The tape stops automatically when it reaches the zero position.
  3. The tape counter with the **M** (Zero memory indicator) disappears from the display and the tape counter is changed to time code.



### Reference

- In the following situations, the ZERO MEMORY mode may be canceled automatically
  - At the end of the section marked with the ZERO MEMORY function.
  - When the tape is ejected.
  - When you remove the battery pack or power supply.
- The zero mem may not function correctly where there is a break between recordings on the tape.
- The ZERO MEMORY will not operate in DV IN mode.

## IEEE 1394 Data Transfer

### Transferring IEEE1394 (i.LINK)-DV standard data connection

#### Connecting with DV device

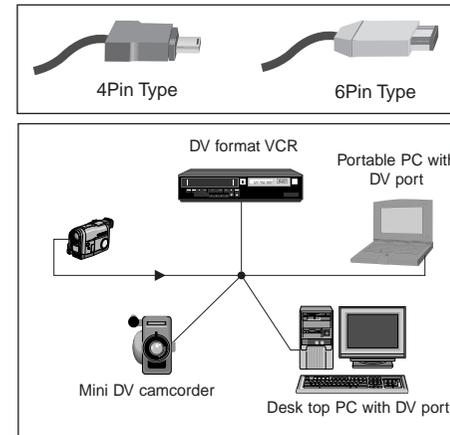
- ⌘ Connecting with other DV standard products.
  - DV standard connecting is quite simple. If a product has a DV port, you can transfer data by connecting to the DV port with the correct cable.
  - !!! Be careful since there are two types of DV port. (4pin, 6pin) this camcorder has a 4pin terminal.
- ⌘ With digital connection, video and audio signals are transmitted in digital, allowing high quality images to be transferred.

#### Connecting to a PC

- ⌘ If you want to transmit data to PC, you must install a IEEE 1394 add-on card in the PC. (not supplied)
- ⌘ The frame rate recorded for video capturing is dependent on the capability of the PC.

#### Reference

- When you transmit data from this camcorder to another DV device, some functions may not work. In this case, please reconnect the DV cable or turn the power OFF and ON again.
- VP-DXXi can receive digital data from another DV device.
- You can record a picture transferred by DV connection on VP-DXXi.



## ENGLISH

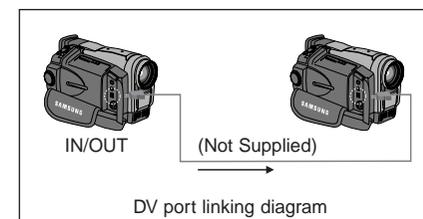
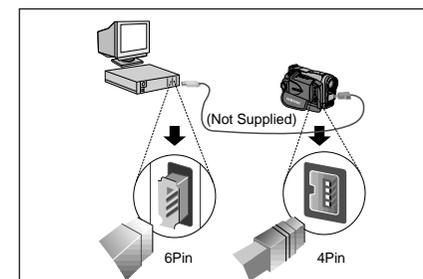
# IEEE 1394 Data Transfer

### ● System requirement

- CPU : faster Intel® Pentium III™ 450Mhz compatible
- Operating system : Windows® 98SE, ME, Mac OS
- Main memory : more than 64 MB RAM
- IEEE1394 add-on card or built in IEEE1394 card

### Recording with DV connecting cable (VP-DXXi only)

1. Set the power switch to PLAYER mode.
2. Connect the DV cable (not supplied) to the DV IN/OUT port of camcorder and to the DV IN/OUT port of the other DV device.
  - Make sure DV IN appears on the screen.
3. Press the START/STOP button to enter the REC PAUSE mode.
  - PAUSE is displayed in the OSD.
4. Start playback on the other DV device while you monitor the picture.
5. Press the START/STOP button to start recording.
  - If you want to pause recording for a while, press the START/STOP button again.
6. To stop recording, press the ■ (STOP) button.



### Reference

When using this camcorder as a recorder, the pictures on a monitor may be uneven, however recorded pictures are not affected.

## USB interface

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### *Transferring Digital Image by USB Connection*

- ⌘ You can easily transfer the still image from the camera, tape, memory or Smart Media Card to PC without other optional add-on cards via USB connection.
- ⌘ You can transfer the image to PC via USB connection.
- ⌘ If you transfer data to PC, you must install the software (Driver, Editing software) supplied with the camcorder.

### System Requirement

- CPU : Intel® Pentium II™ processor compatible or better
- Operating system : Windows® 98/98SE/ME/2000
- RAM : 32 MB or more
- CD-ROM: 4x CD-ROM drive
- VIDEO : 65,000-colour or better video display card
- Available USB port



### Reference

- Intel® Pentium II™ is trademark of Intel Corporation.
- Windows® is registered trademark of Microsoft Corporation.
- All other brands and names are property of their respective owners.

## ENGLISH

# USB interface

### Program installation

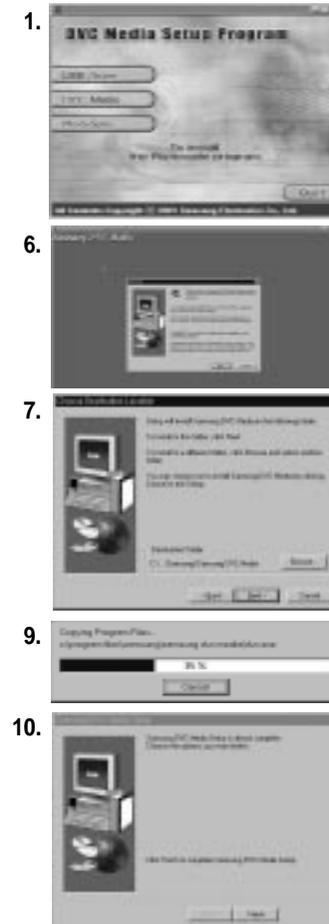
1. Insert the software CD into CD-ROM drive.
  - Installation selection screen appears in the monitor.
2. If the installation selection screen does not appear after inserting CD
  - click "Run" on the Windows "Start" menu and execute SETUP.EXE file to begin installation.
  - When CD-ROM drive is set to "D:" drive: type "D:\setup.exe" and press Enter.
3. Click a button to install the selected software.
  - USB Driver
  - USB Software
  - Photo Editing Software

### Install the USB Driver

4. When you see the Start window, click "USB Driver" to continue installation.

### Install the USB Software (DVC media™)

4. When you see the Start window, click "DVC media™" to continue installation.
5. Select a language and click "OK".
6. When the dialogue box appears, click the "NEXT" button.
7. Choose the Destination Folder:
  - To install to default folder, click "NEXT"
  - To install to different folder, click "Browse" and select another folder.
8. Click the "NEXT" button.
9. Files are copied to selected folder.
10. When the next dialogue box appears, select "Yes, I want to restart my computer now" and click Finish to restart your PC.



## USB interface

### Install the Photo editing Software (Photo Suite™)

4. Repeat steps 1~3.
5. When you see the Start window, click "Photo Suite™" to continue installation.
6. Select a language and click "OK".
7. When the dialogue box appears, click the "NEXT" button.
8. When the License Agreement window appears, click the "YES" button.
9. Choose the Destination Folder:
  - To install to default folder, click "NEXT"
  - To install to different folder, click "Browse" and select another folder.
10. Click the "NEXT" button.
11. Files are copied to selected folder.
12. When the registration window appears, click the "Continue" button.
13. Fill out blanks and click the "Register" button.
  - If you want to register later, click the "Cancel" button.
14. When the next dialogue box appears, click the "Finish" button.

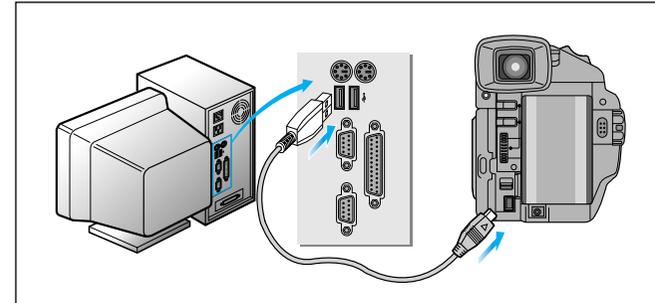


## ENGLISH

# USB interface

### Connection with PC

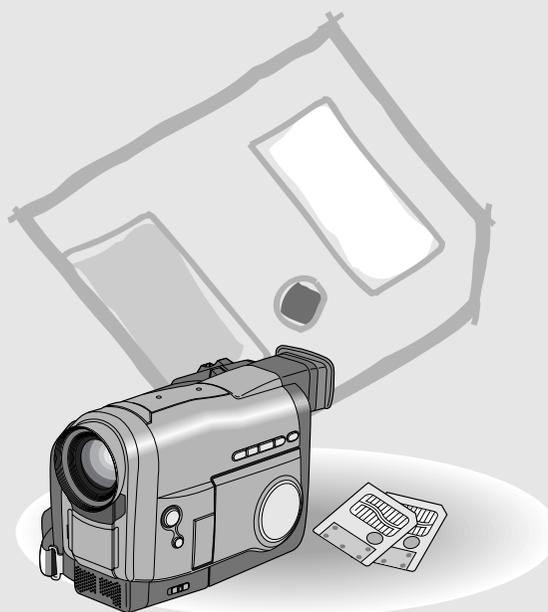
1. Connect USB cable into USB connector on the PC.
2. Connect USB cable into the proper terminal of camcorder. (USB jack)



### Reference

- If you disconnect the USB cable from PC or camcorder during transferring, the data transmission may stop and it could cause to damage data.
- If you connect the USB cable to PC via USB HUB or connect the USB cable with other USB devices simultaneously, The camcorder may not work properly.
  - In this case, remove other USB devices from the PC and reconnect the camcorder.
- If the PC tries to find driver files after program installation, identify the path (folder) as following
  - D:\Driver (When CD-ROM is set to "D:")
- If the USB cable is connected to camcorder, DELETE, ►/|| (SLIDE), ► (MEM.+), ◀ (MEM.-) buttons are not available in the DSC-PLAYER mode and the START/STOP button is not available in DSC-CAMERA mode.
- If you connect the IEEE 1394(DV) and USB at the same time, the USB may not operate normally function.

DSC



D  
S  
C

## ENGLISH

# Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

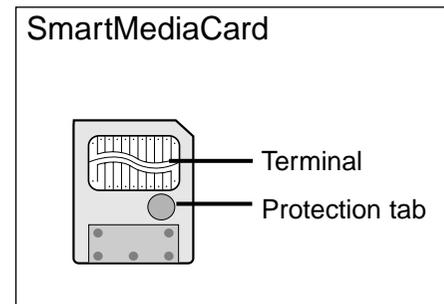
## SmartMediaCard and Built - in Memory

⌘ The SmartMediaCard (SMC) or Built-in Memory (4MB) store and manage still images recorded by camera.

### Functions with SMC and Built - In memory

- ⌘ Record still images
- ⌘ View still images
  - Single
  - Slide show
- ⌘ Protect images against accidental erasure
- ⌘ Delete images recorded on a card or memory
- ⌘ Print mark still images
- ⌘ Format a card or memory
- ⌘ Copying still images to a cassette

D  
S  
C



### Reference

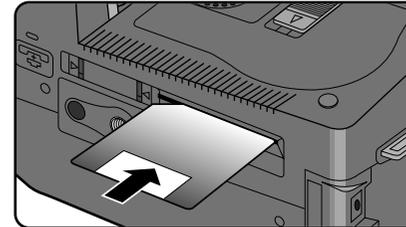
- You can use most of the camera's functions when recording to a SMC or built-in memory.  
(ex) DSE, program AE, shutter, white balance and other manual adjustment.
- “▶▶▶ MEM.” appears on the screen while recording to card or memory.
- While recording or loading the image, do not eject or insert the SmartMediaCard.
  - Inserting or ejecting the SmartMediaCard while recording or loading the image could cause to damage data.
- If you want to save all images on the SmartMediaCard. affix the protection label to protection tab on the SmartMediaCard.

## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Inserting ejecting the SmartMediaCard (VP-D76(i)/D77(i))

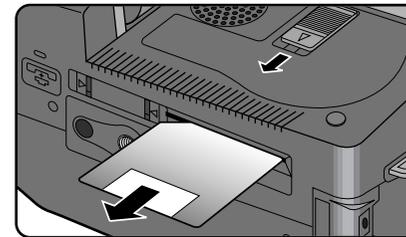
#### ● Inserting card

1. Turn the Power switch to OFF.
2. Insert the SmartMediaCard into the CARD slot located beneath the camcorder in the direction of the arrow.



#### ● Ejecting card

1. Turn the Power switch to OFF.
2. Open the LCD monitor.
3. Slide down the Card Eject switch and pull out the card.



#### Reference

- If you turn the power switch to PLAYER and set the mode switch to DSC, the last recorded image appears.
  - If there are no recorded images on the SmartMediaCard, NO STORED IMAGE and MEM. will be blinking on the screen.
- Do not turn off the power during recording, loading, erasing or formatting.
- Please turn off the power when you insert or eject the SmartMediaCard.  
You could lose data on the SmartMediaCard.
- Do not allow metal substances to contact terminals of the Card.
- Do not bend the Card.
- After pulling the card out from camcorder, please keep the SmartMediaCard in soft case to prevent static shock.
- The memorized contents may be changed or lost due to misuse, static electricity, electric noise, trouble and repair.  
Save important images separately.
- We are not responsible for data loss due to misuse.

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**ENGLISH**

## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Structure of folders and files on the Smart Media Card and built- in memory

⌘ The still images that you recorded are saved as JPEG file format on the card or memory.

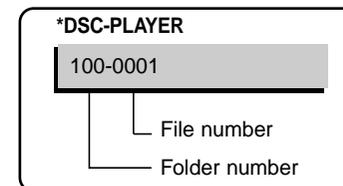
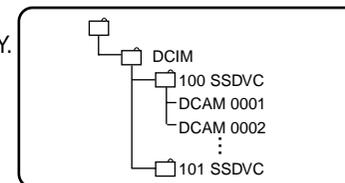
⌘ Each file has a file number and all files are assigned to folder.

- The file number from DCAM0001 to DCAM9999 is assigned to each recorded image with order.
- Each folder is numbered from 100SSDVC to 999SSDVC and recorded on the CARD or on the MEMORY.

D  
S  
C

### Format of images

- ⌘ Images are compressed in the JPEG (Joint Photographic Experts Group) format.
- ⌘ The number of pixels is 624x472 (VGA)in each modes.



## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Selecting the quality of image

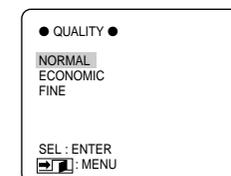
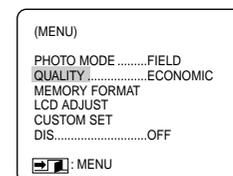
☞ You can select the quality of a still image to be recorded.

#### PHOTO MODE select

☞ This function is same with the PHOTO MODE. (see page 59)

#### Select the quality of image

1. Set the power switch to CAMERA Mode and set the mode switch to DSC.
2. Press the MENU ON/OFF button.
  - The menu list will appear.
3. Turn the MENU DIAL to highlight QUALITY.
4. Press the ENTER to enter the sub-menu.
5. Using the MENU DIAL, select the image quality.
  - Press the ENTER to confirm the image quality and return to main menu.
  - If you exit the sub-menu without pressing the ENTER, the quality mode is not changed.
6. To exit, press the MENU ON/OFF button.



#### ● Number of images on the CARD or built-in memory

QUALITY	4MB Built-in memory	8MB SmartMediaCard
FINE	Approx. 30	Approx. 60
NORMAL	Approx. 60	Approx. 120
ECONOMIC	Approx. 110	Approx. 240

– The actual number that you can record varies depending on the image size.

**ENGLISH**

## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

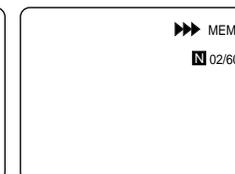
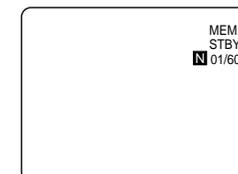
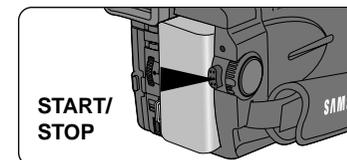
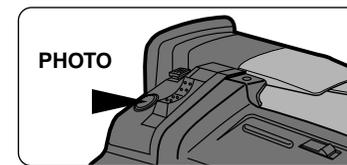
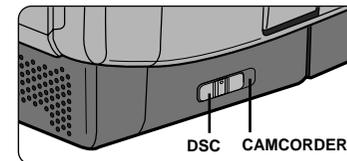
### Recording Still images to a SMC or MEMORY

- ⌘ It is impossible to record moving Picture onto a SmartMediaCard or built-in memory.
- ⌘ Audio can not be recorded onto a card or memory.

#### Recording images to a card or memory

1. Set the mode switch to DSC.
2. Set the power switch to CAMERA mode.
3. Press the PHOTO button to capture the image.
  - The STBY appears on the screen
  - If you want to change the captured image without recording, press the PHOTO button again and select image again.
4. Press the START/STOP to record the captured image onto a card or memory.
  - While the camera is recording the still image, "▶▶▶" appears on the screen.

D  
S  
C



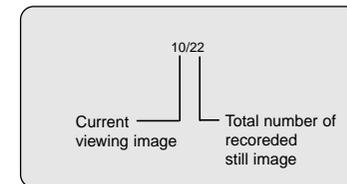
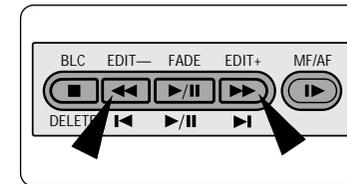
## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Viewing Still images

- ⌘ You can playback and view still images recorded on SmartMediaCard or built-in memory.
- ⌘ There are 2 ways to view recorded images.
  - Single : To view a image frame by frame
  - Slide show :To view all images automatically in order

#### To view a Single image

1. Set the mode switch to DSC.
2. Set the power switch to PLAYER mode.
  - The last recorded image appears.
    - If there are no recorded images on the Smart Media Card, NO STORED IMAGE and MEM. will be blinking on the screen.
3. Using the ► (MEM.+) and ◀ (MEM.-) buttons, search the desired still image.
  - To view the next image : press ► (MEM.+) button.
  - To view the previous image : press ◀ (MEM.-) button.
  - Pressing ► (MEM.+) at the last image will take you to the first image and pressing ◀ (MEM.-) at the first image will take you to the last image.
  - Keep pressing ► (MEM.+) or ◀ (MEM.-) to search for the image quickly.



D  
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C

#### To view a slide show

1. Set the mode switch to DSC.
2. Set the power switch to PLAYER mode.
  - The last recorded image appears
3. Press the ►/|| (SLIDE) button.
  - All images will playback one after the other for 4~5 seconds each.
4. To stop the slide show, press the ►/|| (SLIDE) button again.

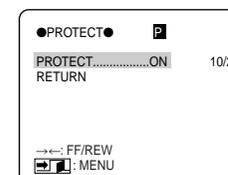
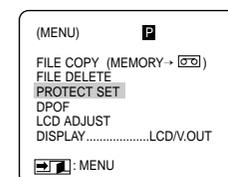
## ENGLISH

# Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Protecting from accidental erasure

- ⌘ You can protect important images from accidental erasure.
- If you execute the MEMORY FORMAT, all images including protected images will be erased.

1. Set the mode switch to DSC.
2. Set the power switch to PLAYER mode.
  - The last recorded image appears.
  - If there are no recorded images on the Smart Media Card, NO STORED IMAGE and MEM. will be blinking on the screen.
3. Using the **▶** (MEM.+) and **◀** (MEM.-) buttons, Search the still image that you want to protect.
4. Press the MENU ON/OFF button.
5. Turn the MENU DIAL to highlight PROTECT SET and press ENTER.
6. To activate or deactivate the PROTECT, press ENTER.
  - ON : To protect the viewing image.
    - The protect indicator **P** appears on the screen.
  - OFF : To release the protecting mode of viewing image.
    - The **P** mark disappears on the screen.
  - RETURN : To return to main menu.
7. Using the **▶** (MEM.+) and **◀** (MEM.-) buttons, search the still image that you want to protect again.
  - Protect or release the image using step 6.
8. To exit the menu, press the MENU ON/OFF button.

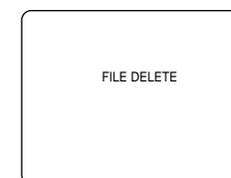
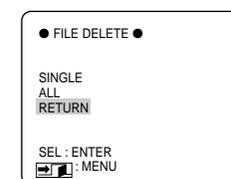
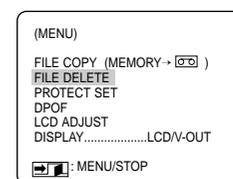


## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Deleting Still images

- ⌘ You can erase the still images recorded on the SmartMediaCard or built-in memory.
- ⌘ If you want to delete protected images, release the image protection first.
- ⌘ An image which has been deleted cannot be recovered.

1. Set the mode switch to DSC.
2. Set the power switch to PLAYER mode.
3. Using the **▶** (MEM.+) and **◀** (MEM.-) buttons, search the still image that you want to delete.
  - Press the DELETE button.
    - Using the MENU DIAL, select NO or YES and press the ENTER.
      - NO : Returns to sub menu
      - YES : Images will be deleted without protected images.
  - Enter the menu and select the FILE DELETE.
    - a. Press the ENTER button to view a sub menu.
    - b. Select the item and press the ENTER.
      - SINGLE : To delete images one at a time.
      - ALL : To delete all still images at a time except protected images.
        - "DO YOU DELETE ALL? NO YES" appears on the screen.
      - RETURN : To return to main menu.
    - c. Using the MENU DIAL, select NO or YES and press the ENTER.
      - NO : Returns to sub menu
      - YES : Images will be deleted without protected images.
  - d. To exit the menu, press the MENU ON/OFF.



**Reference**

- If you try to delete the protected image, "CONFIRM PROTECTION" appears on the screen.

## ENGLISH

# Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

## Marking on images for printing (VP-D76(i)/D77(i))

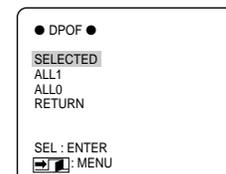
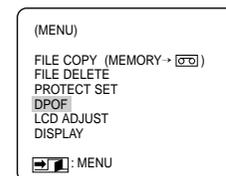
- ⌘ This camcorder supports the DPOF (Digital Print Order Format) print format.
- ⌘ You can automatically print images recorded on a SmartMediaCard on a DPOF supporting printer.
- ⌘ There are 3 ways to mark a DPOF mark.
  - SELECTED : To print a number of sheets of same image.
  - ALL 1 : To print all pictures as one sheet at a time.
  - ALL 0 : To restore the print mark of all images to "0".

1. Set the mode switch to DSC.
2. Set the power switch to PLAYER mode.
  - The last recorded image appears.
3. Using the **▶** (MEM.+) and **◀** (MEM.-) buttons, search the still image that you want to mark.
4. Enter the menu and select the DPOF and press ENTER
5. Select method and press ENTER.
  - Return : To return to main menu.

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### Reference

- Although you delete marked images, DPOF marks are not deleted.
  - Set the DPOF mark of the image to 0 before deleting the image.

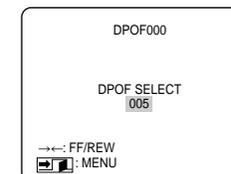


## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

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### SELECTED

6. "DPOF000" and "DPOF SELECT 000" appears on the screen.
7. Using the MENU DIAL select the number of sheets to print image that you selected and press the ENTER.
  - The number of sheets varies from 000 to 999.
8. Using the **▶**(MEM.+) and **◀**(MEM.-) select another image that you want to mark.
9. To exit the menu, press the MENU ON/OFF.



### ALL1

6. "DPOF001" appears on the screen.
7. DPOF001 mark will be marked on 200 images from current still image.
  - DPOF001 will be blinking.
  - It may take several minutes depending on the number of images.
8. To exit the menu, press the MENU ON/OFF.

### ALLO

6. "DPOF000" appears on the screen.
7. DPOF marks of all images are canceled.
8. To exit the menu, press the MENU ON/OFF.

**ENGLISH**

## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

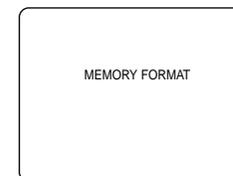
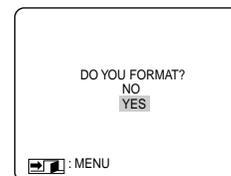
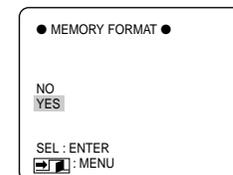
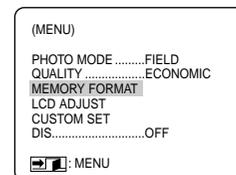
### Formatting a SMC or built-in memory

- ⌘ You can use the MEMORY FORMAT functions to completely delete all images and options on a SmartMediaCard and built-in memory, including protected images.
- ⌘ The format function restores a SmartMediaCard and built-in memory to initial state.
- ⌘ The SmartMediaCard supplied with this camcorder has already been formatted.

**Attention** • If you execute the MEMORY FORMAT function, all images will be completely erased and erased images can not be recovered.

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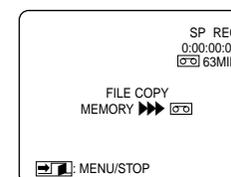
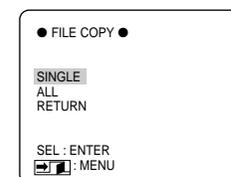
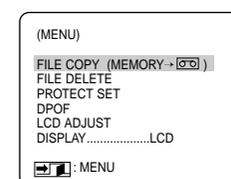
1. Set the mode switch to DSC.
2. Set the power switch to CAMERA mode.
3. Press the ENTER button to enter the menu and select the MEMORY FORMAT.
4. Press the ENTER button.
  - The sub menu appears.
5. Using the MENU DIAL, select the item.
  - NO : To return to main menu
  - YES : To start formatting.
6. Press the ENTER button.
  - "DO YOU FORMAT" appears on the screen.
7. Using the MENU DIAL, select YES or NO and press the ENTER button.
  - If you select YES, Formatting starts and "MEMORY FORMAT" is blinking on the screen.
  - If you select NO, you return to sub menu.
8. To exit the menu, press the MENU ON/OFF button.



## Digital Still Camera mode (VP-D75(i)/D76(i)/D77(i) only)

### Copying still images to a cassette

- ⚙ You can copy images on the SMC or built-in memory to a cassette.
  - ⚙ There are 2 ways to copy images from a card or memory to a cassette
    - Single
    - ALL
1. Set the mode switch to CAMCORDER.
  2. Set the power switch to PLAYER mode.
  3. Locate the point on the cassette where you want to start copying and set it to stop.
  4. Set the mode switch to DSC.
  5. Using the ►(MEM.+) and ◀(MEM.-) buttons, find the first still image that you want to copy.
  6. Enter the menu and select the FILE COPY.
  7. To select the FILE COPY mode, press the ENTER button.
  8. Select the item and press the ENTER.
    - SINGLE: To record a single image to a cassette.
    - ALL: To record all still images that recorded on the SMC or memory to a cassette.
    - RETURN: To return to main menu.
  9. Copying starts.
    - Each image is copied for about 8 seconds on the cassette.
    - The currently copying image and [MEMORY ►►► ] appears on the screen.
  10. Press ■ (STOP) or MENU ON/OFF button to stop copying.
    - Copying stops when all images have been copied or the tape reaches its end.

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## ENGLISH

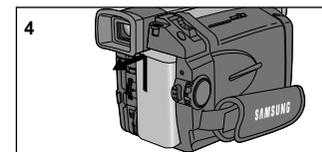
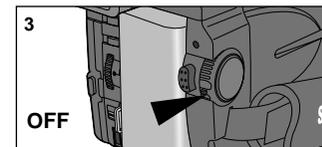
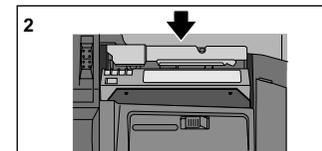
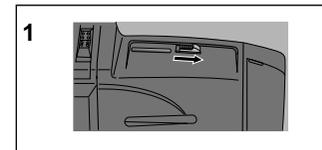
# Maintenance

### After finishing a recording

- ⌘ At the end of a recording you must remove the power source.
- ⌘ When recording with Lithium Ion battery Pack, leaving the pack on the camcorder can reduce the life span of the battery, Hence, it should be removed from the camcorder.

### After completing a recording session

1. Slide the EJECT switch in the direction of the arrow
  - Opening the cassette door ejects the tape automatically.
  - Please wait while the tape is completely ejected.
2. After removing the tape, close the door and store the camcorder in a dust free environment.
  - Dust and other foreign materials can cause square-shaped noise or hesitant image.
3. Set the power switch to OFF mode.
4. Disconnect the power source or remove the Lithium Ion Battery Pack.
  - When connecting a power supply, separate it in reverse order by referring to page 21.
  - Hold down the BATT. RELEASE button and slide the battery pack in the direction of the arrow.

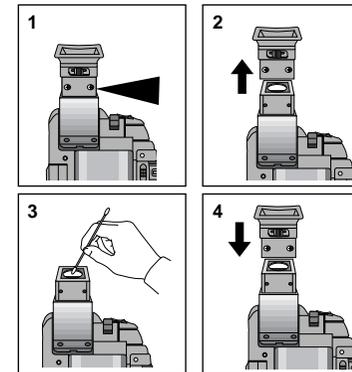


# Maintenance

## Cleaning and Maintaining the Camcorder

### Cleaning the viewfinder

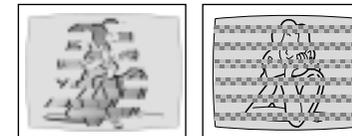
- Releasing the Eyecup
  1. Pull the VIEWFINDER up and then turn the two screws counter-clock-wise.
  2. Pull EYECUP out.
  3. Clean the EYECUP and the VIEWFINDER screen with a soft cloth and cotton swab or a blower.
  
- Reattaching the Eyecup
  4. Put the EYECUP on the VIEWFINDER.
  5. Refit the screws.



### Cleaning the Video Heads

To ensure normal recording and clear pictures, clean the video heads when the playback pictures display square block-shaped noise or only the blue screen appears during playback, as the video heads may be dirty.

1. Set the power switch to PLAYER mode.
2. Insert the cleaning tape.
3. Press the ►/|| (PLAY/STILL) button.
4. Press the ■ (STOP) button after 10 seconds.



### Reference

- Check the quality of the picture using a video cassette. If it is still bad, repeat the operation. If the problem continues, contact your local authorized service centre.
- Clean the video heads with the dry type cassette cleaner.

## ENGLISH

# Using Your Camcorder Abroad

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- ⌘ Each country or area has its own electric and TV colour system.
- ⌘ Before using your camcorder abroad, check the following points.

### Power sources

- You can use your camcorder in any country or area with the supplied AC Power Adapter within 100V to 240V, 50/60 Hz.
- Use a commercially available AC plug Adapter, if necessary, depending on the design of the local wall outlet.

### Colour system

- You can view your recording in the viewfinder.  
However, to view it on a television or copy it to a video cassette recorder, the television or VCR must be PAL-compatible and have the appropriate audio/video jacks.  
Otherwise, you may need to use a transcoder.

- **PAL-compatible area**

Australia, Austria, Belgium, Bulgaria, China, CIS, Czech Republic, Denmark, Egypt, Finland, France, Germany, Greece, Great Britain, Holland, Hong Kong, Hungary, India, Iran, Iraq, Kuwait, Libya, Malaysia, Mauritius, Norway, Rumania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

- **NTSC-compatible area**

Bahamas, Canada, Central America, Japan, Mexico, Philippines, Korea, Taiwan, United States of America, etc.

**Reference**

You can make recordings with your camcorder anywhere in the world and you can watch the playback picture on the LCD screen.

# Troubleshooting

## Troubleshooting

- ⌘ Before contacting a service centre, perform the following simple checks. They may save you the time and expense of an unnecessary call.

### Self Diagnosis Display

Display	Blinking	Informs that...	Action
	slow	the battery pack is almost discharged.	Change to a charged one.
	fast	the battery pack is fully discharged.	Change to a charged battery.
 2MIN	slow	When the remaining time of the tape is about 3 minutes.	Prepare a new one.
TAPE END	no	the tape reached its end.	Change to a new one.
TAPE	slow	there is no tape in camcorder.	Insert a tape.
TAPE	slow	the tape is protected to record.	If you want to record, release the protection.
C.EMG D.EMG L.EMG R.EMG	slow	the camcorder has some mechanical fault.	1. Eject the tape. 2. Set to OFF. 3. Detach the battery. 4. Reattach the battery. * If unresolved contact your local service representative.
DEW	slow	moisture condensation has formed in the camcorder.	see below.

### Moisture Condensation

- ⌘ If the camcorder is brought directly from a cold place to a warm place, moisture may condense inside the camcorder, on the surface of the tape, or on the lens. In this condition, the tape may stick to the head drum and be damaged or the unit may not operate correctly. To prevent possible damage under these circumstances, the camcorder is fitted with a moisture sensor.
- ⌘ If there is moisture inside the camcorder, "DEW" is displayed. If this happens, none of the functions except cassette ejection will work. Open the cassette compartment and remove the battery. Leave the camcorder for at least two hours in a dry warm room.

**ENGLISH**

# Troubleshooting

**Self Diagnosis Display in DSC made**

Display	Blinking	Informs that...	Action
NO MEMORY!	slow	There no card or memory in the camcorder. The CARD or memory is damaged.	Insert a card. Format a card or memory or change to a new card.
MEMORY IS FULL	slow	There is not enough memory to record.	Change to a new card or erase recorded image.
NO STORED IMAGE	slow	There is no images recorded on the SMC or memory.	Record new images.
CONFIRM WRITE PROTECTION	slow	The card or memory is protected to record.	Remove the protection label.
CONFIRM PROTECTION	slow	When you try to delete to protected image.	Cancel the protect of image.
MEMORY READ ERROR	slow	The camera can not playback.	Format a card or memory or insert card recorded on this camcorder.
MEMORY WRITE ERROR	slow	The camera can not record.	Format a card or memory or change to a new card.
NEED FORMAT	slow	The card or memory needs to format.	Format a card or memory.
FILE DELETE	slow	When progressing FILE DELETE.	Wait until the end of deleting.
MEMORY FORMAT	slow	When progressing MEMORY FORMAT.	Wait until the end of formatting.
FILE COPY	slow	When progressing FILE COPY.	Wait until the end of copying.

# Troubleshooting

⚠ If these instructions do not allow you to solve the problem, contact your nearest authorized service centre.

Symptom	Explanation/Solution
You cannot switch the camcorder on	Check the battery pack or the AC Power Adapter.
START/STOP button does not operate while recording	Check the POWER switch is set to CAMERA. You have reached the end of the cassette. Check the record protection tab on the cassette.
The camcorder goes off automatically.	You have left the camcorder set to STBY for more than 5 minutes without using it. The battery pack is fully exhausted.
The battery pack is quickly exhausted.	The atmospheric temperature is too low. The battery pack has not been charged fully. The battery pack is completely dead, and cannot be recharged, Use another battery pack.
When you see a blue screen during playback	The video heads may be dirty. Clean the head with a cleaning tape.
A vertical strip appears on the screen when recording a dark background.	The contrast between the subject and the background is too great for the camcorder to operate normally. Make the background bright to reduce the contrast or use the BLC function while you are recording brighter.
The image in the viewfinder is blurred.	The Viewfinder lens has not been adjusted. Adjust the viewfinder control lever until the indicators displayed on the viewfinder come into sharp focus.
Auto focus does not work.	Check the M.FOCUS menu. Auto focus does not work in the Manual Focus mode.
Play, FF or REW button does not work.	Check the POWER switch. Set the power switch to PLAYER. You have reached the beginning or end of the cassette.
When you see the broken block image during the EDIT SEARCH.	It is the characteristic of this camcorder and it is not a failure or defect.

**ENGLISH**

# Specifications

*Model name: VP-D73(i)/D75(i)/D76(i)/D77(i)*

<b>System</b>	
Video signal	PAL, CCIR standards
Video recording system	2 rotary heads, Helical scanning system
Audio recording system	Rotary heads, PCM system
Usable cassette	Digital video tape (6.35mm width): Mini DV cassette
Tape speed	SP: approx. 18.83mm/s LP: approx. 12.57mm/s
Tape recording time	SP: 60 minutes (when using DVM 60) LP: 90 minutes (when using DVM 60)
FF/REW time	Approx. 150 sec. (using DVM60 tape)
Image device	CCD (Charge Coupled Device)
Lens	F1.6 22x(Optical), 500x(Digital) Electronic zoom lens
Filter diameter	Ø37
<b>LCD monitor/Viewfinder</b>	
Size/dot number	2.5inch/112,320
LCD monitor Method	TFT LCD
Viewfinder	VP-D77(i): 0.44" colour LCD, VP-D73(i)/D75(i)/D76(i): 0.24" B/W LCD
<b>Connectors</b>	
Video output	1Vp-p (75Ω terminated)
S-video output	Y: 1Vp-p, 75Ω, C: 0.286Vp-p, 75Ω
Audio output	-7.5dBs (600Ω terminated)
DV input/output	VP-DXXi: 4pin special in/out connector, VP-DXX: out only
USB output	Mini-B type connector
External mic	Ø3.5 stereo

# Specifications

General	
Power source	DC 8.4V, Lithium Ion Battery Pack 7.4V
Power source type	Lithium Ion Battery Pack, Power supply (100V~240V) 50/60Hz
Power consumption (Recording)	6.5W(LCD), 5.2W(EVF)
Operating temperature	0°~40°C (32°F~104°F)
Storage temperature	-20°C ~ 60°C (-4°F ~ 140°F)
External dimension	Length 153mm, Height 93mm, Width 87mm
Weight	595g (Except for Lithium Ion Battery Pack and tape)
Built-in MIC	Omni-directional stereo condenser microphone
Remote control	Indoors: greater than 15m (straight line) Outdoors: greater than 5m (straight line)

- These technical specifications and design may be changed without notice.

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## Power Sources (United Kingdom Only)

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The mains lead on the power adapter is supplied with a moulded plug incorporating a fuse.

The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable.

If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug.

Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

### IMPORTANT

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

BLUE = NEUTRAL

BROWN = LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

#### WARNING

Do not connect either wire to the earth terminal marked with the letter E or the earth symbol,  , or coloured GREEN or GREEN and YELLOW.

#### NOTE

This page is applicable to Great Britain only.

**ENGLISH**

**THIS CAMCORDER IS MANUFACTURED BY:**



**\*Samsung Electronics' Internet Home Page**  
<http://www.samsungelectronics.co.uk>

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