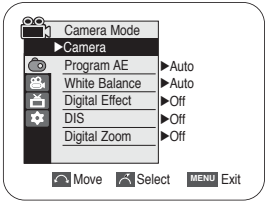
Advanced Recording

Setting the Digital Image Stabilizer (DIS)

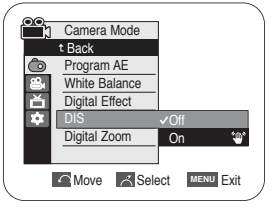
- ✤ The DIS function works only in Camera mode.
- ✤ DIS (Digital Image Stabilizer) is a function that compensates for any shaking or hand movement while holding the Camcorder (within reasonable limits).
- ✤ It provides more stable pictures when:
  - Recording with the zoom
  - Recording a small object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

1. Set the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Press the **MENU** button.
   ■ The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Camera**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **DIS**, then press the **Menu selector**.
6. To activate the DIS function, move the **Menu selector** to the left or right to select **On**. And then press the **Menu selector**.
   ■ If you do not want to use the DIS function, set the DIS menu to **Off**.
7. To exit, press the **MENU** button.

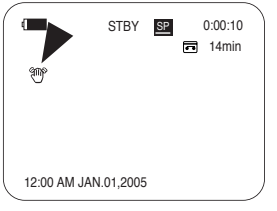
4



6



7



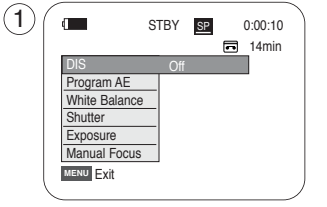
Advanced Recording

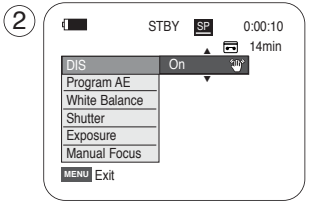
Using Quick Menu: DIS (Digital Image Stabilizer)

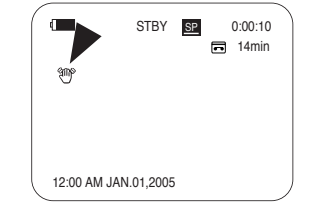
- ✤ Quick menu is used to access Camcorder functions by simply using the Menu selector.
- ✤ Quick menu provides easier access to the frequently used menus without using the Menu button.

1. Press the **Menu selector** and press the **Menu selector** again.

2. Move the **Menu selector** to the left or right to select **On** or **Off**, then press the **Menu selector**.







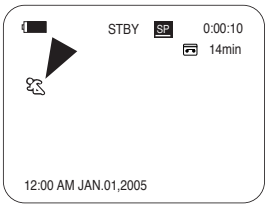
[Notes]

- It is recommended that you deactivate the DIS function when using a tripod.
- If you use the DIS function, the picture quality may deteriorate.
- EASY Q mode automatically sets the DIS to On.

Advanced Recording

Program AE(Programed Automatic Explore Modes)

- The Program AE function works only in Camera mode.
- The Program AE mode allows you to adjust shutter speeds and apertures to suit different recording conditions.
- They give you creative control over the depth of field.



- **Auto mode (A)**
  - Auto balance between the subject and the background.
  - To be used in normal conditions.
  - The shutter speed automatically varies from 1/60 to 1/250 per second, depending on the scene.

- **Sports mode ( )**
  For recording people or objects moving quickly.

- **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 1/60 to 1/1000 per second.

- **Spotlight mode ( )**
  For recording correctly when there is only light on the subject and not the rest of the picture.

- **Sand/Snow mode ( )**
  For recording when people or objects are darker than the background because of reflected light from sand or snow.

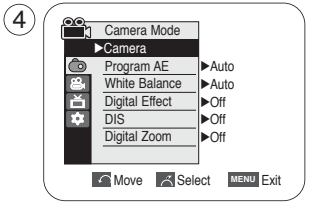
- **High Speed(High Shutter Speed) mode ( )**
  For recording fast-moving subjects such as players in golf or tennis games.

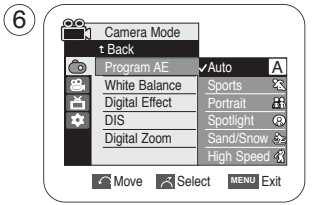
[Notes]
- While setting the NITE PIX to ON, the Program AE function does not work. (SCD352/D354/D355 only)
- The Program AE function will not operate in EASY Q mode.
- No indicator will appear on the LCD screen when Auto mode is selected.

Advanced Recording

Setting the Program AE

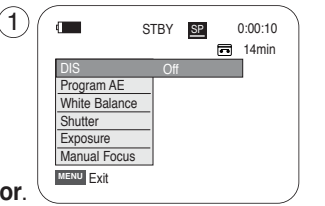
1. Set the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Press the **MENU** button.
   ■ The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Camera**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Program AE**, then press the **Menu selector**.
   The available options are listed.
6. Move the **Menu selector** to the left or right to select desired program AE option, then press the **Menu selector**.
7. To exit, press the **MENU** button.
   The icon of the selected mode will appear on the LCD screen.

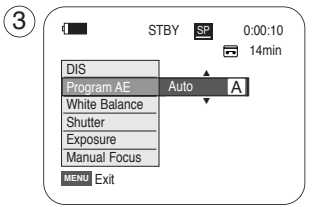




Using Quick Menu: Program AE

1. Press the **Menu selector**.
2. Move the **Menu selector** to the left or right to select **Program AE**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select desired program AE option, then press the **Menu selector**.



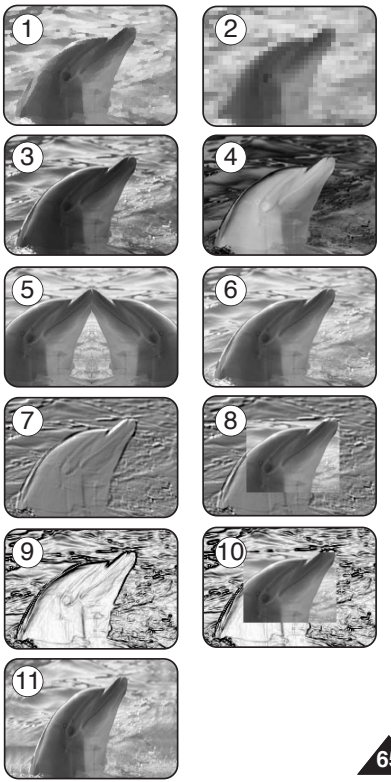


Advanced Recording

Applying Digital Effect

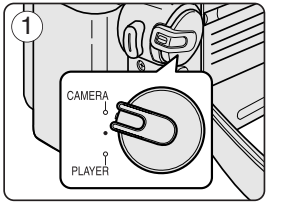
- The Digital Effect function works only in Camera mode.
- The Digital Effects enable you to give a creative look to your recording by adding various special effects.
- Select the appropriate Digital Effect for the type of picture that you wish to record and the effect you wish to create.
- There are 11 Digital Effect modes.

1. **ART mode**
   This mode gives the images a coarse effect.
2. **Mosaic mode**
   This mode gives the images a mosaic effect.
3. **Sepia mode**
   This mode gives the images a reddish-brown pigment.
4. **Negative mode**
   This mode reverses the colors, creating a negative image.
5. **Mirror mode**
   This mode cuts the picture in half, using a mirror effect.
6. **BLK & WHT mode**
   This mode changes the images to black and white.
7. **Emboss1 mode**
   This mode creates a 3D effect (embossing).
8. **Emboss2 mode**
   This mode creates a 3D effect (embossing) on surrounding area of the image.
9. **Pastel1 mode**
   This mode applies a pale pastel drawing effect to an image.
10. **Pastel2 mode**
    This mode applies a pale pastel drawing effect to surrounding area of an image.
11. **16:9 Wide mode**
    Select to record a picture to be played back on a 16:9 Wide TV.



Advanced Recording

Selecting the Digital Effect



1. Set the **Power** switch to **CAMERA**.

2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)

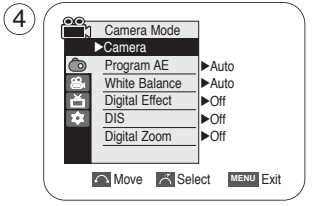
3. Press the **MENU** button.
   ■ The menu list will appear.

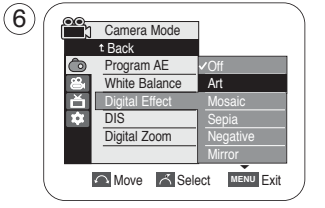
4. Move the **Menu selector** to the left or right to select **Camera**, then press the **Menu selector**.

5. Move the **Menu selector** to the left or right to select **Digital Effect**, then press the **Menu selector**.

6. Move the **Menu selector** to the left or right to select desired Digital Effect mode, then press the **Menu selector**.
   ■ The selected mode is applied.

7. To exit, press the **MENU** button.





[Notes]

- While setting the NITE PIX to ON, the Digital Effect function does not work. (SCD352/D354/D355 only)
- The Digital Effect function will not operate in EASY Q mode.

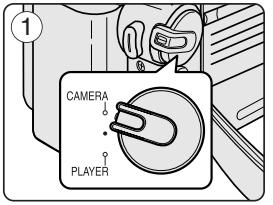
Advanced Recording

Zooming In and Out with Digital Zoom

✤ Zoom works only in Camera mode.

Digital Zoom

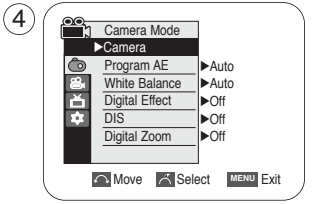
✤ Zooming more than 20x is achieved digitally, up to 900x when combined with optical zoom.
✤ The picture quality may deteriorate depending on how much you zoom in on the subject.
✤ We recommend that you use the DIS feature with Digital Zoom for picture stability. (see page 61)



1. Set the **Power** switch to **CAMERA**.

2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)

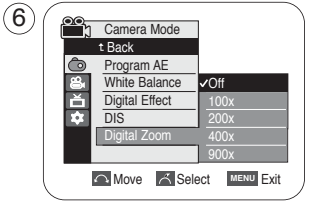
3. Press the **MENU** button.
   ■ The menu list will appear.



4. Move the **Menu selector** to the left or right to select **Camera**, then press the **Menu selector**.

5. Move the **Menu selector** to the left or right to select **Digital Zoom**, then press the **Menu selector**.

6. Move the **Menu selector** to the left or right to select desired zoom mode(**Off**, **100x**, **200x**, **400x** or **900x**), then press the **Menu selector**.

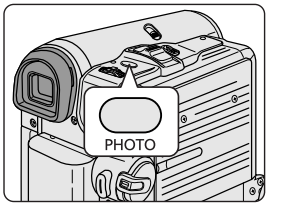


7. To exit, press the **MENU** button.

[Notes]
■ Using the DIS function (see page 61) to obtain a more stable, clearer image when recording using the deep zoom.
■ Maximum zooming may result in lower picture quality.

Advanced Recording

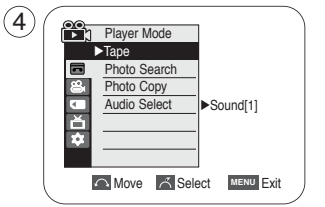
Photo Image Recording



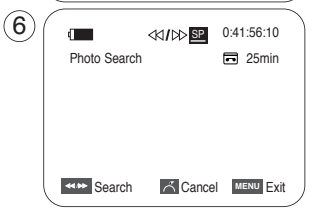
1. Set the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Press the **PHOTO** button.
   - The still picture is recorded for about 6~7 seconds.
4. After the **PHOTO** has been recorded, the Camcorder returns to **STBY** mode.

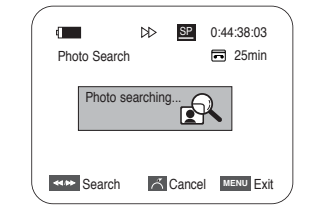
Searching for a Photo Picture

✤ The Photo Search works only in Player mode.



1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Press the **MENU** button.
   The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Tape**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Photo Search**, then press the **Menu selector**.
6. Press the ◀◀/▶▶ (REW/FF) buttons to select the photo.
   - The photo search process appears on LCD screen while you are searching.
   - After completing the search, the Camcorder displays the still image.
7. To exit, press the ■ (STOP) button.





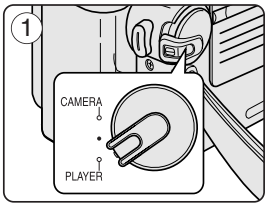
[Notes]

- Pressing the PHOTO button while recording stops the recording and saves the still image captured at that moment.It takes approx. 6 ~7 seconds to save the image and then resumes the recording.
- You can use the remote control to take a photo by using the PHOTO button on the remote control. Pressing the PHOTO button on the remote control records the still image at once with automatic focusing. (SCD354/D355 only)
- When there are no still images recorded on the tape, it will be fully rewound or forwarded.

Playback

Playing back a tape you have recorded on the LCD screen

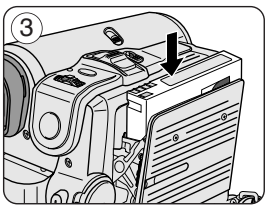
✤ You can monitor the playback picture on the LCD screen.
✤ Make sure that the Battery pack is in place.



1. Set the **Power** switch to **PLAYER**.

2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)

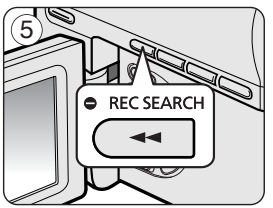
3. Insert the tape you wish to view. (see page 36)



4. Open the LCD screen.
   ■ Adjust the angle of the LCD screen and set the brightness or color if necessary.

5. Press the ◀◀ (REW) button to rewind the tape to the starting point.
   ■ To stop rewinding, press the ■ (STOP) button.
   ■ The Camcorder stops automatically after rewinding is complete.

6. Press the ▶/❚❚ (PLAY/STILL) button to start playback.
   ■ You can view the picture you recorded on the LCD screen.
   ■ To stop the play operation, press the ■ (STOP) button.



Adjusting the LCD Bright/Color during Playback

✤ You can adjust the LCD Bright/Color during playback.
✤ The adjustment method is the same procedure as used in Camera mode. (see page 32)

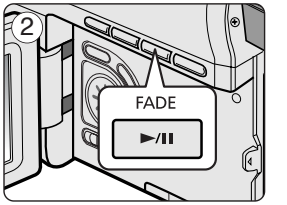
[Notes]

■ You can also view the picture on a TV screen, after connecting the Camcorder to a TV or VCR. (see page 71~72)
■ Various functions are available in Player mode. (see page 73)
■ For searching and viewing still images recorded onto tape. (see page 68)

Playback

Controlling Sound from the Speaker

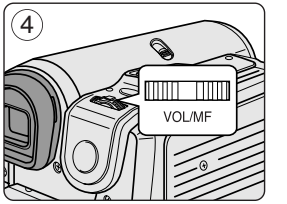
✤ The Speaker works only in Player mode.
✤ When you use the LCD screen for playback, you can hear recorded sound from the built-in Speaker.
- Follow the instructions below to decrease or mute speaker volume in the Player mode.
- Take the following steps to lower the volume or mute the sound while playing a tape on the Camcorder.



1. Set the **Power** switch to **PLAYER**.

2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)

3. Press the **►/II** (PLAY/STILL) to play the tape.



4. When you hear sounds once the tape is in play, use the **Menu selector** to adjust the volume.
   - A volume level display will appear on the LCD screen.
     Levels may be adjusted from anywhere between 00 to 19 and you will not hear any sound when the volume is set on 00.
   - If you close the LCD screen while playing, you will not hear sound from the speaker.

[Notes]
- When the AV cable is connected to the Camcorder, you cannot hear sound from the Built-In Speaker and cannot adjust the volume.
- The sound will return when you remove the connected AV cable from the jack of your Camcorder.

Playback

Tape Playback

✤ The playback function works only in Player mode.

Playback on the LCD screen

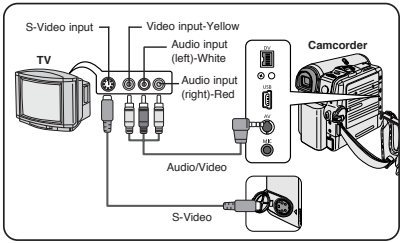
✤ It is practical to view a tape using the LCD screen when in a car or outdoors.

Playback on a TV monitor

✤ To play back a tape, the television must have a compatible color system.
✤ We recommend that you use the AC Power adapter as the power source for the Camcorder.

Connecting to a TV which has Audio/Video input jacks

1. Connect the Camcorder and TV with the Audio/Video cable.
   - The yellow jack: Video
   - The white jack: Audio(L)-mono
   - The red jack: Audio(R)
     If you connect to a monaural TV, connect the yellow jack (Video) to the video input of the TV and the white jack (Audio L) to the audio input of the TV.
2. Set the **Power** switch to **PLAYER**.
3. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
4. Turn on the TV and set the TV/VIDEO selector on the TV to Video.
   Refer to the TV user's manual.
5. Play the tape.



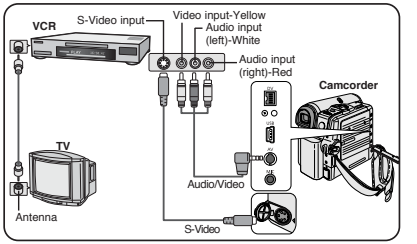
[Notes]

- You may use an S-Video (optional) cable to obtain better quality pictures if you have a S-Video connector on your TV.
- Even if you use an S-Video (optional) cable, you need to connect an audio cable.
- If you connect the cable to the Audio/Video jack, you will not hear sound from the Camcorder's speakers.
- If only a mono audio input is available on the TV set, use the audio cable with the white jack. (Audio L)

Playback

Connecting to a TV which has no Audio and Video Input Jacks

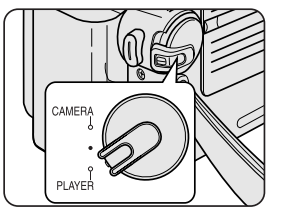
✤ You can connect your Camcorder to a TV through a VCR.



1. Connect the Camcorder and VCR with the Audio/Video cable.
   - The yellow jack: Video
   - The white jack: Audio(L) - Mono
   - The red jack: Audio(R)
2. Connect a TV to the VCR.
3. Set the **Power** switch to **PLAYER**.
4. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
5. Turn on both the TV and VCR.
   - Set the input selector on the VCR to Line.
   - Select the channel reserved for your VCR on the TV set.
6. Play the tape.

Playback

✤ You can play the recorded tape in Player mode.



1. Connect a power source and set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Insert the tape you wish to play back.
4. Using the ◀◀/▶▶ (REW/FF) buttons, find the first position you wish to play back.
5. Press the ▶/❚❚ (PLAY/STILL) button.
   - The images you recorded will appear on the TV after a few seconds.
   - If a tape reaches its end while being played back, the tape will rewind automatically.

[Notes]

- The playback mode (SP/LP) is selected automatically.
- If the VCR has an S-VIDEO input terminal, you may use S-VIDEO for better quality.
- The S-VIDEO terminal transmits video only. Connect AUDIO cables for sound.
- If only a mono audio input is available on the TV set, use the audio cable with the white jack.

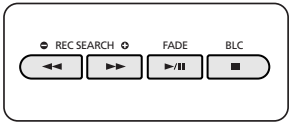
Playback

Various Functions while in PLAYER mode

- ✤ The PLAY, STILL, STOP, FF, REW buttons are located on the Camcorder and the remote control. (SCD354/D355 only)
- ✤ The F.ADV(Frame advance), X2, SLOW buttons are located on the remote control only. (SCD354/D355 only)
- ✤ To prevent tape and head-drum wear, your Camcorder will automatically stop if it is left in still or slow modes for more than 5 minutes. (SCD354/D355 only)

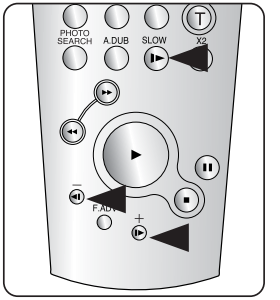
Playback Pause

- Press the ▶/❚❚ (PLAY/STILL) button during playback.
- To resume playback, press the ▶/❚❚ (PLAY/STILL) button.



Picture Search (Forward/Reverse)

- Press the ◀◀/▶▶ (REW/FF) buttons during playback or still mode.
  To resume normal playback, press the ▶/❚❚ (PLAY/STILL) button.
- Keep pressing ◀◀/▶▶ (REW/FF) buttons during playback or still mode.
  To resume normal playback, release the button.



<SCD354/D355 only>

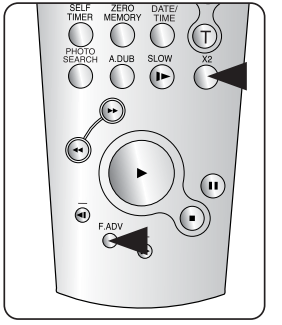
Slow Playback (Forward/Reverse) (SCD354/D355 only)

- Forward Slow playback
  - Press the **SLOW** button on the remote control during playback.
  - To resume normal playback, press the ▶/❚❚ (PLAY/STILL) button.
- Reverse Slow Playback
  - Press the ◀❚❚ (-) button during forward slow play back.
  - To resume forward slow playback, press the ❚❚▶ (+) button.
  - To resume normal playback, press the ▶/❚❚ (PLAY/STILL) button.

Playback

Frame Advance (To play back frame by frame) (SCD354/D355 only)

- Press the **F.ADV** button on the remote control while in still mode.
  - Video sequence advances frame by frame each time you press the **F.ADV** button.
  - The F.ADV function works in still mode only.
- To resume normal playback, press the ▶/❚❚ (PLAY/STILL) button.
  - Forward frame advance
    Press the **F.ADV** button on the remote control in still mode.
  - Reverse frame advance
    Press the ◀❚❚ (-) button on the remote control to change the direction in F.ADV mode.
    Press the **F.ADV** button on the remote control.



<SCD354/D355 only>

X2 Playback (Forward/Reverse) (SCD354/D355 only)

- 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 ◀❚❚ (-) button during during forward X2 playback.
  - To resume normal playback, press the ▶/❚❚ (PLAY/STILL) button.

Reverse Playback (SCD354/D355 only)

- To playback in reverse at normal speed, press the ◀❚❚ (-) button during normal forward playback.
- Press the ▶/❚❚ (PLAY/STILL) or ❚❚▶ (+) button to return to normal forward playback.

[Notes]

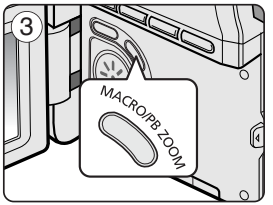
- Mosaic shaped distortion may appear on the screen while in some of the various playback modes.
  Mosaic shaped distortion or noise may be experienced when you play back tapes recorded in LP which contain various playback functions.
- Sound will only be heard during normal SP or LP playback.

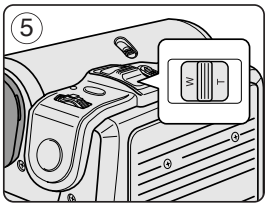
Playback

Zooming during Playback (PB ZOOM)

✤ The Playback Zoom function works in Player mode.
✤ The Playback Zoom function enables you to magnify playback or still image.

1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Press the **PB ZOOM** button in playback mode or in still mode.
4. The image is magnified starting from the center of image.
5. You can zoom in from **1.2x** to **8.0x** by moving the Zoom lever.
   ■ Zoom ratio is not displayed on the screen.
6. To cancel the playback Zoom function, press the **PB ZOOM** or ■(STOP) button.





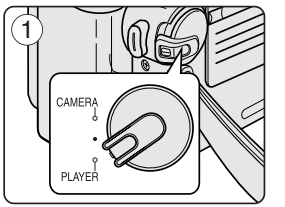
[Notes]
- The PB ZOOM function enlarges center of the screen only.
- You cannot apply the Playback Zoom function to pictures which are being input from an external video source.
- The Playback Zoom image cannot be imported to your PC from the Camcorder's DV jack.
- The PB ZOOM images cannot be exported to a PC.
- **OSD will not be displayed on the LCD screen while the PB ZOOM function is operating. To display OSD, press the PB ZOOM button once to stop operating PB ZOOM function or press the ■(STOP) button to stop playing back.**

Playback

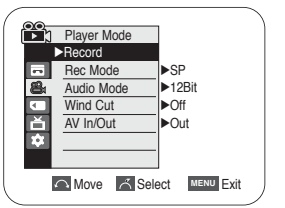
AV In/Out (SCD355 only)

✤ AV In/Out function works only in Player mode.
✤ AV in/out setting enables you to record signal from external sources and display it on LCD screen. Also, you can direct your video or image to external devices to record or play back.

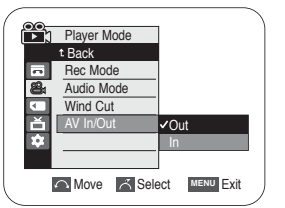
1. Connect the Camcorder and VCR or TV with the Audio/Video cable. (See page 71~72)
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Set the **Power** switch to **PLAYER**.
4. Turn on the VCR or TV.
5. Insert the blank tape with protection tab closed into the Camcorder.
   ■ If you want to record from a connected VCR, insert a recorded VHS tape into the VCR.
6. Press the **MENU** button.
   ■ The menu list will appear.
7. Move the **Menu selector** to the left or right to select **Record**, then press the **Menu selector**.
8. Move the **Menu selector** to the left or right to select **AV In/Out**, then press the **Menu selector**.
9. Move the **Menu selector** to the left or right to select **In** or **Out**, then press the **Menu selector**.
10. To exit, press the **MENU** button.
11. Press the **Start/Stop** button to set the Camcorder to **REC PAUSE** mode.
    ■ **PAUSE** on the LCD screen.
12. Select the TV program or playback the VHS tape.
13. Press the **Start/Stop** button to start recording.
    ■ If you want to pause recording for a while, press the **Start/Stop** button again.
14. To stop recording, press the ■ (STOP) button.



6



8



[Notes]

■ When you record the images being played back on analog VCR, if they are not being played back in normal speed, (for example, more than double speed or slow playback), only gray image appears on the Camcorder.
■ If you want to see the Camcorder picture with a TV, set AV In/Out menu to Out.

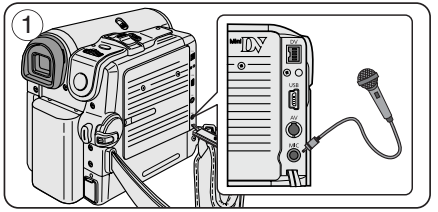
Playback

Audio Dubbing (SCD354/D355 only)

- The Audio Dubbing function works only in Player Mode.
- You can not dub sound on a pre-recorded tape in LP mode or 16 bit mode.
- You can add sound to the original sound on a pre-recorded tape recorded in SP mode with 12bit sound.
- Use the internal and external microphones or other audio equipment.
- The original sound will not be erased.

Dubbing Sound

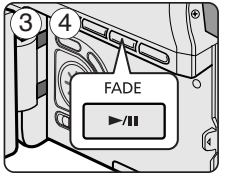
1. Set the **Power** switch to **PLAYER**.
   - If you want to use an external microphone, connect the microphone to the external MIC input jack on the Camcorder.

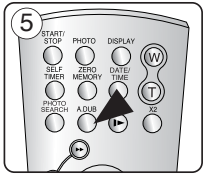


2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)

3. Press the ▶/II (PLAY/STILL) button and find the timeframe of the scene to be dubbed.

4. Press the ▶/II (PLAY/STILL) button to pause the scene.





5. Press the **A.DUB** button on the remote control.
   - Audio Dubbing icon ( ) will be displayed on the LCD screen.
   - The Camcorder is in a ready-to-dub state for dubbing.

6. Press the ▶/II (PLAY/STILL) button to start dubbing.
   Press the ■ (STOP) button to stop the dubbing.

[Notes]

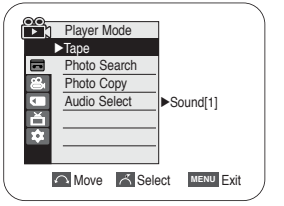
- You can not use the Audio Dubbing function while playing a write protected video tape.
- To utilize an external MIC or sound source, connect a microphone to the MIC jack or use the AV cable for external sound source input.
- To dub an external sound source, set the AV In/Out function to AV In (SCD355 only). (see to page 76).

Playback

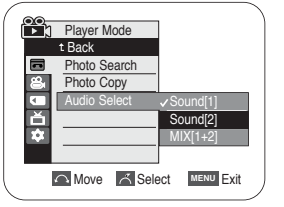
Dubbed audio Playback

1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Insert the dubbed tape and press the **MENU** button.
4. Move the **Menu selector** to the left or right to select **Tape**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Audio Select**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select audio playback channel.
   - Sound[1]: play the original sound.
   - Sound[2]: play the dubbed sound.
   - MIX[1+2]: play back sound1 and 2 equality mixed.
7. To exit, press the **MENU** button.
8. Press the ▶/❚❚ (PLAY/STILL) button to playback the dubbed tape.

4



6



7

[Note]
When you playback added sound (Sound 2 or MIX mode), you may experience loss of sound quality.

IEEE 1394 Data Transfer

Transferring IEEE1394 (i.LINK)-DV standard data connections

Connecting to a DV Device

- Connecting with other DV standard products.
  A standard DV connection is quite simple.
  If a product has a DV port, you can transfer data by connecting to the DV port using the correct cable.

  !!! Please be careful since there are two types of DV ports, (4pin, 6pin). This Camcorder has a 4pin terminal.
- With a digital connection, video and audio signals are transmitted in digital format, allowing high quality images to be transferred.

Connecting to a PC

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

[Notes]

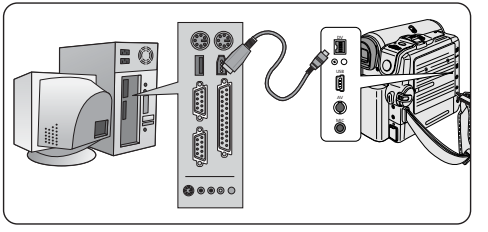
- When you transmit data from the Camcorder to another DV device, some functions may not work.
  If this occurs, please reconnect the DV cable or turn the power OFF and ON again.
- When you transmit data from the Camcorder to PC, PC function button is not available in M.Player mode.
- Do not use the Camcorder and IEEE1394 together as this will cause IEEE1394 to shut off.
- Do not connect the Camcorder to a PC using both DV and USB cables. It may not operate properly.
- Operation is not guaranteed for all computer environments recommended above.
- The IEEE1394 cable (DV cable)is sold separately.
- Video Capture software is commercially available.
- Most DV enabled PCs have a 6 pin socket. In this case, a 6-4 cable is required for the connection.
- Most DV enabled Notebooks and Laptops have a 4 pin socket. Use a 4-4 cable for the connection.

IEEE 1394 Data Transfer

System Requirements

- CPU: faster Intel® Pentium III™ 450MHz compatible.
- Operating system: Windows® 98SE, ME, XP, Mac OS (9.1~10.2)
- Main memory: more than 64 MB RAM
- IEEE1394 add-on card or built in IEEE1394 card

Recording with a DV Connection Cable



1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)
3. Connect the DV cable (not supplied) from the DV jack of the Camcorder to the DV jack of the other DV device.
   Make sure that DV IN appears on the screen.
4. Press the **Start/Stop** button to begin **REC PAUSE** mode.
   PAUSE is displayed on the OSD.
5. Start playback on the other DV device while you monitor the picture.
6. Press the **Start/Stop** button to start recording.
   If you want to pause recording momentarily, press the **Start/Stop** button again.
7. To stop recording, press the ■(STOP) button.

[Notes]

- When using this Camcorder as a recorder, the pictures that appear on a monitor may seem uneven, however recorded pictures will not be affected.
- Operations are not guaranteed for all the recommended computer environments mentioned above.

USB interface (SCD352/D353/D354/D355 only)

Transferring a Digital Image through a USB Connection

- The camcorder supports both USB 1.1 and 2.0 standards. (Depends on the PC specification)
- You can easily transfer a image from a Memory card to a PC without additional add-on cards via a USB connection.
- You can transfer an image to a PC via a USB connection. (SCD353/D354/D355 only)
- If you transfer data to a PC, you need to install the software (Driver, DVC Media 5.1, Windows Media Player 9.0, DirectX 9.0a) supplied with the Camcorder.

USB Connection speed depending on the System

High speed USB connection is supported by Microsoft (Windows) device drivers only.

- Windows 98SE/ME - Full Speed USB
- Windows 2000 - High speed USB on a system with Service Pack 4 or later installed.
- Windows XP - High speed USB on a system with Service Pack 1 or later installed.

System Requirements

	Windows System	
	Minimum	Recommended
CPU	Intel® Pentium III™, 600MHz	Intel® Pentium IV™ , 2GHz
OS	Windows® 98SE/ME	Windows® 2000/XP
Memory	128MB	512MB
HDD capacity	1GB or more	2GB or more
Resolution	1024 x 768 dots 24bit Color	1024 x 768 dots 24bit Color
USB	USB1.1	USB2.0 High Speed

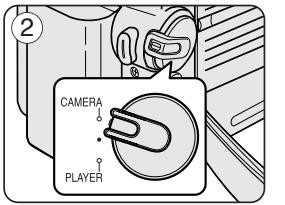
- It is not available for Macintosh systems.

[Notes]

- On a slower PC than recommended, movie playback may not be smooth or video editing may take a long time.
- On a slower PC than recommended, movie playback may skip frames or operate unexpectedly.
- Intel® Pentium III™ is a trademark of the Intel Corporation.
- Windows® is a registered trademark of the Microsoft® Corporation.
- All other brands and names are property of their respective owners.
- Operations are not guaranteed for all of the recommended computer environments mentioned above.
- Do not connect the Camcorder to a PC using both DV and USB cables. It may not operate properly.
- In CAMERA mode, be sure that the Memory card is inserted into camera before connecting USB cable. No Memory card or an unformatted Memory card is inserted, PC will not recognize your camera as a removable disk. (SCD353/D354/D355 only)
- USB Streaming transfers video in MPEG4 format and it requires DVC Media 5.1, DirectX 9.0a,Windows Media Player 9.0.
- If you disconnect the USB cable from the PC or the Camcorder during the data transfer, the data transfer will stop and the data may be damaged.
- If you connect the USB cable to a PC using a USB HUB or with other devices at the same time, it might cause conflict and may not work properly. If this occurs, remove all other USB devices and try the connection again.

Setting the USB Communication Speed

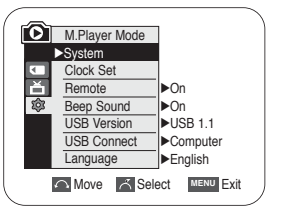
- ✤ To ensure proper communication between the camcorder and a PC, please set the USB Version before connecting the camcorder to a PC.
- ✤ USB Version is accessible in every mode.



1. Set the **Power** switch to **CAMERA** or **PLAYER**.

2. Set the **Mode** switch to **TAPE** or **MEMORY CARD**.

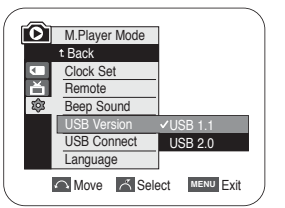
3. Press the **MENU** button.
   - The menu list will appear.



4. Move the **Menu selector** to the left or right to select **System**, then press the **Menu selector**.

5. Move the **Menu selector** to the left or right to select **USB Version**, then press the **Menu selector**.
   - Set the USB Version to USB 2.0 when it is supported by both PC and its OS.
   - If either the PC or OS does not support USB 2.0, set the USB Version to USB 1.1.

6. To exit, press the **MENU** button.



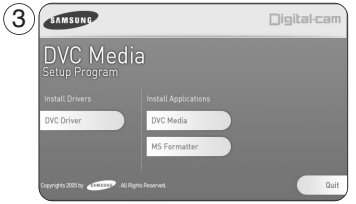
[Note]
When USB Version is not set properly, USB connection may fail to establish.

USB interface (SCD352/D353/D354/D355 only)

Installing DVC Media Pro Program

- ✤ To play back MPEG moving picture recorded by the camcorder or streaming data transferred through the USB connection on a PC, the DVC Media Pro program should be installed.
- ✤ **DVC Media Pro User's Manual is included on the accompanying CD(D:\help\) in adobe's Portable Document Format(PDF) The user's manual can be viewed using Acrobat Reader software, which is also included on the CD. (The Acrobat Reader is a freeware product of AdobeSystems,Inc.)**
- ✤ Do not connect the Camcorder to PC before installing the program.
- ✤ If another camera or scanner is connected, please disconnect it in advance.
- ✤ This explanation is based on Windows® 98SE OS.

Program Installation



1. Insert the software CD into CD-ROM drive.
   Installation selection screen appears on the monitor.
2. If the installation selection screen does not appear after inserting the 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 the icons listed below to install the selected software.
   - DVC Driver Click
     USB removable Disk Driver (Windows® 98SE only)
     USB PC CAMERA & STREAMING Driver (VIDEO CODEC installed)
   - DirectX 9.0a Click
   - DVC Media Click
     A Video Codec for playing back MPEG moving picture recorded by the camcorder or streaming data transferred through the USB connection on a PC is installed. (A file recorded by another device cannot be played back.)
   - MS Formatter Click
     A dedicated formatter for the Memory Stick only.

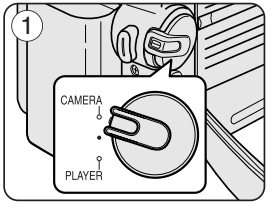
Using the PC Camera Function

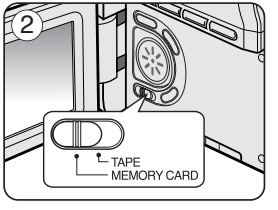
- ✤ To use PC Camera function, the DVC Media Pro, DirectX 9.0a. (included in the CD) programs must be installed in the PC.
- ✤ You can use this Camcorder as a PC CAMERA.
- ✤ When you connect to a Web site that can provide video chatting functions, you can use your Camcorder for such functions.
- ✤ When you use the voice input at video chatting (or net-meeting) function, connect the external microphone to the soundcard of PC.
- ✤ Using the Camcorder with PC installed Net-meeting program, you can conduct video conference.
- ✤ The PC CAMERA's screen size
  - ■ 320X240 (QVGA) pixels for USB 1.1 connection.
  - ■ 640X320 (VGA) pixels for USB 2.0 connection. (Transferred video frame rate for the PC camera function is 15 fps.)
- ✤ If PC is connected with the USB to the Camcorder, the buttons which excepts the Power switch, Mode switch, Zoom switch and NITE PIX switch are not operated. (SCD352/D354/D355 only)

1. Set the **Power** switch to **CAMERA**.

2. Set the **Mode** switch to **TAPE**. (SCD353/D354/D355 only)

3. Connect one end of the USB cable to the USB jack on the Camcorder and the other end to the USB connector on your computer.





USB interface (SCD352/D353/D354/D355 only)

Using the USB Streaming Function

- ✤ USB streaming data type is MPEG
- ✤ To use USB streaming, the DVC Media Pro, DirectX 9.0a. (included in the CD) programs must be installed in the PC.
- ✤ You can view Camcorder video on your PC using USB streaming.
- ✤ You can also store it as a moving picture in the "avi" file format, or as a still image in the "jpg" file format on a PC.

1. Set the **Mode** switch to **TAPE**(SCD353/D354/D355 only), set the **Power** switch to **CAMERA** or **PLAYER**.
2. Connect one end of the USB cable to the USB jack on the Camcorder and the other end to the USB port on your computer.
3. Execute the DVC Media 5.1 program.
   If you want the detailed description of USB streaming, refer to the DVC Media Pro User's Manual.

Using the removable Disk Function

- ✤ You can easily transfer data from a Memory card to a PC without additional add-on cards via a USB connection.

1. Set the **Mode** switch to **MEMORY CARD**(SCD353/D354/D355 only), set the **Power** switch to **CAMERA** or **PLAYER**.
2. Connect one end of the USB cable to the USB jack on the Camcorder and the other end to the USB port on your computer.

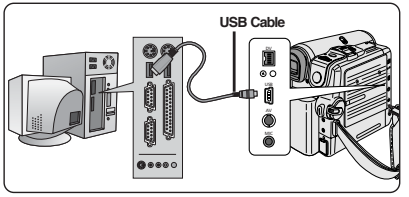
Connecting to a PC

1. Connect a USB cable to the USB port on the PC.
2. Connect the other end of the USB cable into the proper terminal on the Camcorder. (USB jack)
   If a PC is connected to the Camcorder with a USB cable only, the Power switch, Zoom switch and NITE PIX operate. (SCD352/D354/D355 only)

Disconnecting the USB Cable

- ✤ After completing the data transmission, you must disconnect the cable in the following way:

1. Select the removable disc icon and click the right mouse button to select [Eject].
2. Select [Confirm] and disconnect the USB cable when the Windows Splash screen appears.



[Notes]

- ■ If you disconnect the USB cable from the PC or the Camcorder while transferring, the data transmission will stop and the data may be damaged.
- ■ If you connect the USB cable to a PC via a USB HUB or simultaneously connect the USB cable along with other USB devices, the Camcorder may not work properly.
  If this occurs, remove all USB devices from the PC and reconnect the Camcorder.

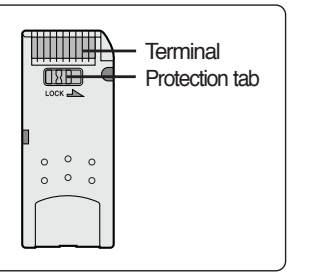
Digital Still Camera mode (SDC353/D354/D355 only)

Memory Stick (Optional Accessory)

✤ The Memory Stick stores and manages images recorded by the camera.

Memory Stick Functions

- Recording still images and MPEG4 movie
- Viewing still images and MPEG4 movie
  - Single
  - Slide show (Still images only)
- Multi display
- Protecting images against accidental erasure
- Deleting images recorded on a Memory Stick
- Print marking still images
- Formatting a Memory Stick



[Notes]

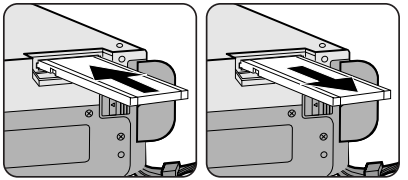
- You can use most of the camera's functions when recording to the Memory Stick.
- ▶▶▶ appears on the screen while recording to the Memory Stick.
- While recording or loading an image, do not eject or insert the Memory Stick.
  Inserting or ejecting a Memory Stick while recording or loading an image can cause data damage.
- If you want to save all images on the Memory Stick, set the write protect tab on the Memory Stick to LOCK.

MEMORY STICK ™

- "Memory Stick" and MEMORY STICK are trademarks of Sony Corporation.
- All other product names mentioned herein may be the trademarks or registered trademarks of their respective companies.
  Furthermore, "™" and "®" are not mentioned in each case in this manual.
- "Memory Stick PRO" can be used with the SCD354/D355 model only.

Digital Still Camera mode (SDC353/D354/D355 only)

Inserting and Ejecting the Memory Card



SCD353 only

Memory Stick

SCD354 only

Memory Stick
Memory Stick PRO

SCD355 only

Memory Stick
Memory Stick PRO

SD/MMC

(Usable Memory card)

Inserting the Memory card

1. Set the **Power** switch to **Off**.
2. Open the Memory card cover.
3. Insert the Memory card in the direction of the arrow into the Memory card slot located on the bottom of the Camcorder.

Ejecting the Memory card

1. Set the **Power** switch to **Off**.
2. Open the Memory card cover.
3. Push the Memory card, then it comes out of the Camcorder automatically.
4. Pull out the Memory card.
   Do not attempt to pull the Memory card out without first pushing it in.

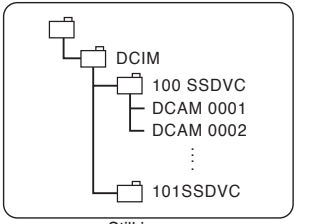
[Notes]

- Memory Stick Duo type or RS-MMC (SCD355 only) should be inserted by using the Adaptor (not supplied).
- If you set the Camcorder to M.Play mode, the last recorded still image appears. If there are no recorded images on the Memory card, **No image!** will display on the screen.
- While recording, loading, erasing or formatting, do not turn off the power or change the mode.
- Please turn the power off before you insert or eject the Memory card. You could lose data on the Memory card.
- Do not allow metal substances to come in contact with the terminals of the Memory card.
- Do not bend, drop or apply strong shock to Memory card.
- After pulling the Memory card out from the Camcorder, please keep the Memory card in a soft case to prevent static shock.
- The stored contents may be changed or lost as a result of misuse, static electricity, electric noise or repair. Save important images separately.
- Samsung is not responsible for data loss due to misuse.

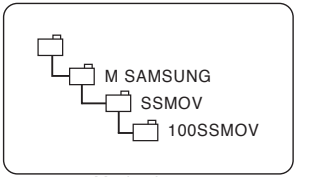
Digital Still Camera mode (SDC353/D354/D355 only)

Structure of Folders and Files on the Memory Card

- ✤ The still images that you recorded are saved in JPEG file format on the Memory card.
- ✤ The moving images that you recorded are saved in MPEG4 file format on the Memory card.
- ✤ Each file has a file number and all files are assigned to a folder.
  - A file number from DCAM0001 to DCAM9999 is sequentially assigned to each recorded image.
  - Each folder is numbered from 100SSDVC to 999SSDVC and recorded on the Memory card.



<Still image>



<Moving image>

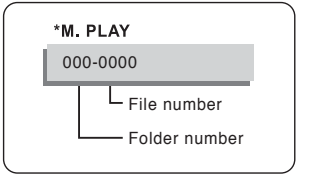


Image Format

Still Image

- Images are compressed in JPEG (Joint Photographic Experts Group) format.
- The number of pixels are 800x600 (Tape Capture 640x480) in each mode.

Moving Image

- Images are compressed in MPEG (Moving Picture Experts Group) format.
- The number of pixels are 720x480 in each mode.

Selecting the CAMCORDER mode

- ✤ You can use this Camcorder as a Digital Still Camera (DSC).
- ✤ You have to set the Mode switch to Memory card to use this Camcorder as Digital Still Camera.

M.Cam mode (Memory record mode)

1. Set the **Mode** switch to **MEMORY CARD**.
2. Set the **Power** switch to **CAMERA**.

M.Player mode (Memory playback mode)

1. Set the **Mode** switch to **MEMORY CARD**.
2. Set the **Power** switch to **PLAYER**.

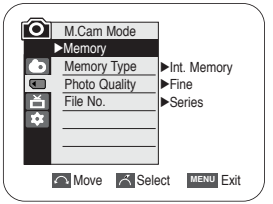
Digital Still Camera mode (SDC353/D354/D355 only)

Selecting the Built-in Memory (SCD354/D355 only)

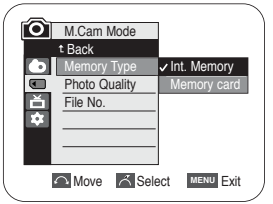
- ✤ Built-in memory setting is available at Player/M.Cam/M.Player modes. (SCD354: 32M/SCD355: 64M)
- ✤ Images can be stored and played back using the built-in memory.
  Hence, set the memory type before storing and playing back images.

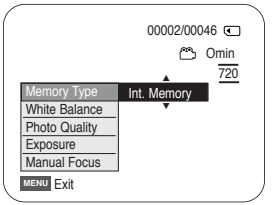
1. Set the power switch to **CAMERA** or **PLAYER**.
2. Set the **Mode** switch to **TAPE** or **MEMORY CARD**. (SCD353/D354/355 only)
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Memory Type**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Int. Memory** or **Memory card**, then press the **Menu selector**.
7. To exit, press the **MENU** button.

4



6





Using Quick Menu: Memory Type

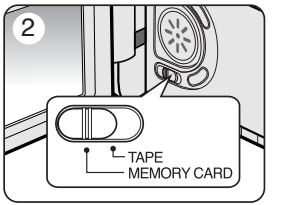
1. Press the **Menu selector**.
2. Move the **Menu selector** to left or right to select **Memory Type**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select **Int. Memory** or **Memory card**, then press the **Menu selector**.
4. To exit, press the **MENU** button.

Digital Still Camera mode (SDC353/D354/D355 only)

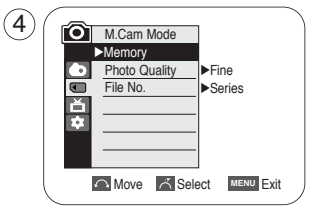
Selecting the image quality

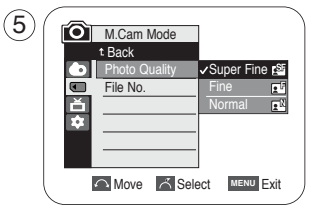
✤ You can select the quality of a still images to be recorded.

Select the image quality



1. Set the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **MEMORY CARD**.
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Photo Quality**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select desired image quality(**Super Fine**, **File**, **Normal**), then press the **Menu selector**.
7. To exit, press the **MENU** button.





Number of Images on the Memory Card

QUALITY	8MB	16MB
Super Fine	Approx. 50	Approx. 100
Fine	Approx. 62	Approx. 125
Normal	Approx. 82	Approx. 167

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

[Notes]

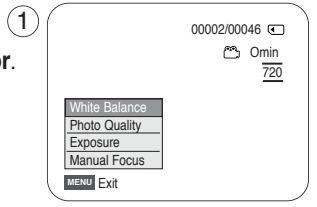
- The above approximation is based on a 16MB memory stick under normal recording conditions.
- The number of pictures that can be stored on a memory card depends on various conditions.

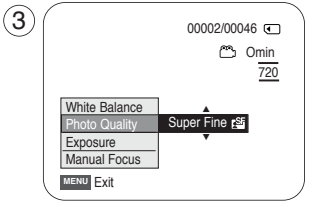
Digital Still Camera mode (SDC353/D354/D355 only)

Using Quick Menu: Photo Quality

- ✤ Quick menu is used to access Camcorder functions by simply using the Menu selector.
- ✤ Quick menu provides easier access to the frequently used menus without using the MENU button.

1. Press the **Menu selector**.
2. Move the **Menu selector** to left or right to select **Photo Quality**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select desired image quality(**Super Fine**, **File**, **Normal**), then press the **Menu selector**.
4. To exit, press the **MENU** button.



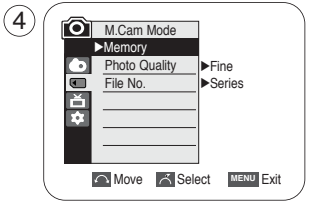


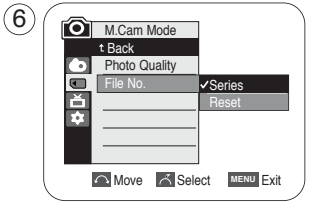
Digital Still Camera mode (SDC353/D354/D355 only)

Memory File Number

- ✤ File numbers will be given to images in order of recording when still images are stored on the Memory card.
- ✤ Memory file numbers may be set as follows:
  - ■ Series: When there are existing files, the new image will be named as the next number in the sequence.
  - ■ Reset
    - When there are no files stored on the Memory card: The file numbering starts from 0001
    - When there are files stored on the Memory card: File numbering will continue after the last file's number

1. Set the **Power** switch to the **CAMERA**.
2. Set the **Mode** switch to **MEMORY CARD**.
3. Press the **MENU** button.
   ■ The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **File No.**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select desired option(**Series** or **Reset**), then press the **Menu selector**.
7. To exit, press the **MENU** button.





[Notes]

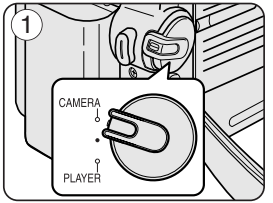
- ■ When using a Memory card that contains image files from another device, numbering the file will begin after the largest number that is memorized whether in the camera or the Memory card.
- ■ Numbering the file starts from 0001 again when 9999 files have been saved.

Digital Still Camera mode (SDC353/D354/D355 only)

Taking Photos

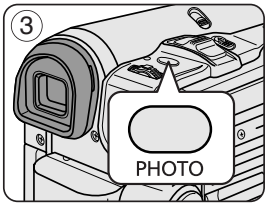
- ✤ You may take still images while in M.Cam mode and store the images on the Memory card.
  This function is useful when you want to take a snapshot of a subject while you are using the Camcorder.
- ✤ You can take photos using the remote control.
- ✤ Audio Cam not be recorded with a Still image on to the Memory Card.

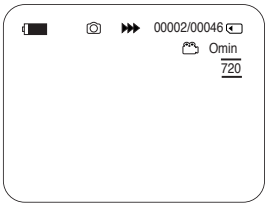
1. Set the **Power** switch to **CAMERA**.



2. Set the **Mode** switch to **MEMORY CARD**.

3. After framing your object to record, fully press the **PHOTO** button to take the picture.
   - The picture is taken and saved into the Memory card within few seconds.
   - Taking another picture within this interval is not possible.
   - The ▶▶▶ indicator appears LCD screen during the time it takes to save the image.





[Notes]

- Still images are saved in the Memory card in an 800x600 format.
- The number of still images can be stored depends on the quality of the image.

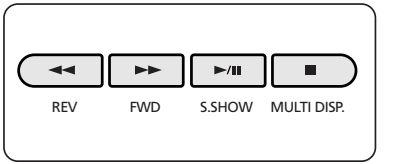
Digital Still Camera mode (SCD353/D354/D355 only)

Viewing Still images

✤ You can playback and view still images recorded on the Memory card.
✤ There are 3 ways to view recorded images.
- Single: To view an image frame by frame.
- Slide show: To view all images automatically and in consecutive order.
- Multi display: To view 6 images at once.

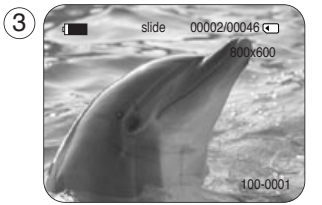
To view a Single image

1. Set the **Mode** switch to **MEMORY CARD**.
2. Set the **Power** switch to **PLAYER**.
   - The last recorded image appears.
   - If there are no recorded images on the Memory card, **No image!** will display on the screen.
3. Using the ◀◀ / ▶▶ (REV/FWD) buttons, search for the desired still image.
   - To view the next image: press the ▶▶ (FWD) button.
   - To view the previous image: press the ◀◀ (REV) button.
   - Pressing ▶▶ (FWD) when you are on the last image will take you to the first image and pressing ◀◀ (REV) when you are on the first image will take you to the last image.
   - Keep pressing ▶▶ (FWD) or ◀◀ (REV) to search for an image quickly.



To view a Slide Show

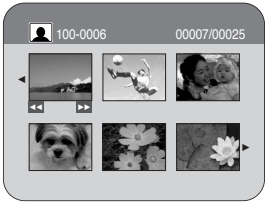
1. Set the **Mode** switch to **MEMORY CARD**.
2. Set the **Power** switch to **PLAYER**.
   - The last recorded image appears.
3. Press the ▶/❚❚ (S.SHOW) button.
   - All images will be played back consecutively for 3~4 seconds each.
   - The “Slide” will be display on the LCD screen.
4. To stop the slide show, press the ▶/❚❚ (S.SHOW) button again.



[Notes]
- Loading time may vary depending on the image size.
- The Slide Show will start from the current picture.
- Any large sized image taken with another device will be displayed as a thumbnail image.

Digital Still Camera mode (SCD353/D354/D355 only)

To view the Multi Display

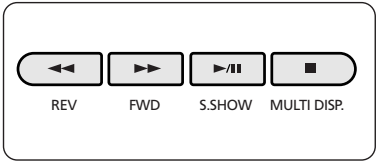


1. Set the **Mode** switch to **MEMORY CARD**.

2. Set the **Power** switch to **PLAYER**
   - The last recorded image appears.

3. To view six stored images on single screen, press the **MULTI DISP.** button.
   - A selection mark (◀◀ ▶▶) appears under the image.
   - Press ◀◀ / ▶▶ (REV/FWD) button to select a image.

4. To return to single playback mode, press the **MULTI DISP.** button again.
   - Selected picture is displayed in full screen mode.



[Notes]
- To display the previous six images, press and hold the ◀◀ (REV) button for about 3 seconds.
- To display the next six images, press the ▶▶ (FWD) button for about 3 seconds.

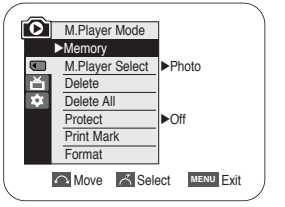
Digital Still Camera mode (SCD353/D354/D355 only)

Protection from accidental Erasure

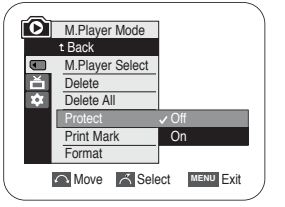
✤ You can protect important images from accidental erasure.
If you execute format, all images including protected images will be erased.

1. Set the **Mode** switch to **MEMORY CARD**.
2. Set the **Power** switch to **PLAYER**.
   - The last recorded image appears.
   - If there are no recorded images on the Memory card, **No image!** will display on the screen.
3. Using the ◀◀/▶▶(REV/FWD) buttons, search for the still image that you want to protect.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Protect**, then press the **Menu selector**.
7. Move the **Menu selector** to the left or right to select **On**, then press the **Menu selector**.
   The protection (🔒) appears.
8. To exit, press the **MENU** button.

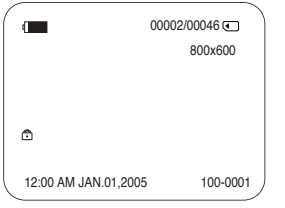
5



7



8



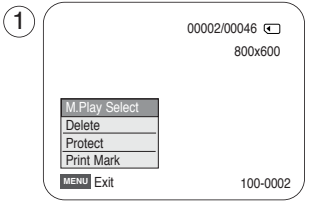
[Notes]
- Protected pictures will show the (🔒) mark when they are displayed.
- If the write protection tab on the Memory card is set to LOCK, you cannot set image protection.

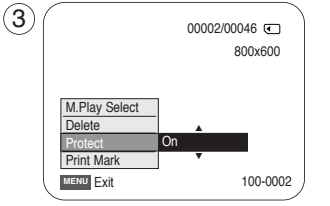
Digital Still Camera mode (SCD353/D354/D355 only)

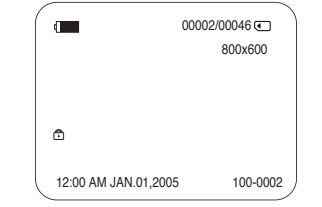
Using Quick Menu: Protect

- ✤ Quick menu is used to access Camcorder functions by simply using the Menu selector.
- ✤ Quick menu provides easier access to the frequently used menus without using the MENU button.

1. Press the **Menu selector**.
2. Move the **Menu selector** to left or right to select **Protect**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select **Off** or **On**, then press the **Menu selector**.
4. To exit, press the **MENU** button.







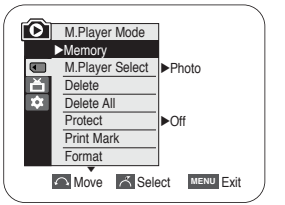
Digital Still Camera mode (SCD353/D354/D355 only)

Deleting Still Images and Moving Images

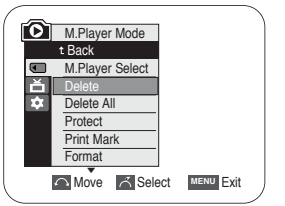
- ✤ You can erase the still images and Moving Images recorded on the Memory card.
- ✤ If you want to delete protected images, you must first deactivate the image protection.
- ✤ An image which has been deleted cannot be recovered.

1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **MEMORY CARD**.
3. Using the ◀◀/▶▶(REV/FWD) buttons, search for the still image that you want to delete.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Delete**, then press the **Menu selector**.
   - A message **Do you want to delete?** appears.
   - If you want to delete all files, move the **Menu selector** to the left or right to select **Delete All**, then press the **Menu selector**. A message **Do you want to delete all?** appears.
7. Move the **Menu selector** to the left or right to select **Yes** or **No**, then press the **Menu selector**.
8. To exit, press the **MENU** button.

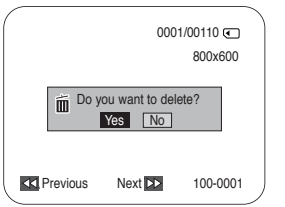
3



6



7

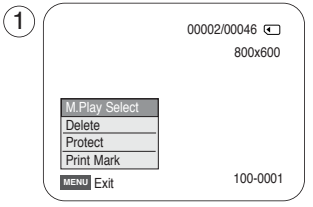


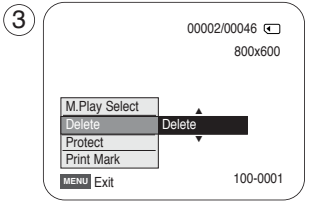
Digital Still Camera mode (SCD353/D354/D355 only)

Using Quick Menu: Delete

✤ Quick menu is used to access Camcorder functions by simply using the Menu selector.
✤ Quick menu provides easier access to the frequently used menus without using the MENU button.

1. Press the **Menu selector**.
2. Move the **Menu selector** to left or right to select **Delete**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select **Cancel** or **Delete**, then press the **Menu selector**.
4. To exit, press the **MENU** button.





[Notes]

- When there is no stored picture on the Memory card, the message **No image!** will be displayed.
- If an erroneous Memory card format is found on the Memory card, the message **Card error!** will be displayed.
- If an erroneous image file is found on the Memory card, the message **File Error** will be displayed. It may be caused by copying images from different digital devices.
- Formatting the Memory card will delete all the stored images. (See page 100.)
- To protect important picture from accidental deletion, activate the image protection (refer to page 96).

Digital Still Camera mode (SCD353/D354/D355 only)

Formatting the Memory card

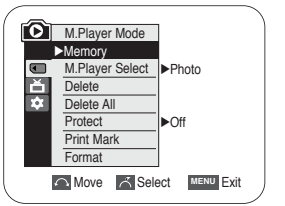
- ✤ You can use the memory format functions to completely delete all images and options on the Memory card, including protected images.
- ✤ The format function restores the Memory card to its initial state.
- ✤ The Memory card supplied with this Camcorder has been formatted already.

Attention

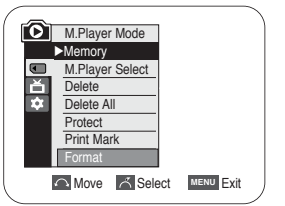
- ✤ If you execute the memory format function, all images will be erased completely and erased images cannot be recovered.

1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **MEMORY CARD**.
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Format**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select desired option(**Int. Memory** or **Memory card**), then press the **Menu selector**. (SCD354/D355 only)
   - If you want to select Int. Memory card or Memory, a message **All files are deleted! Do you want to format?** appears.
7. Move the **Menu selector** to the left or right to select **Yes** or **No**, then press the **Menu selector**.
   - **Complete!** appears when the format is completed.
8. To exit, press the **MENU** button.

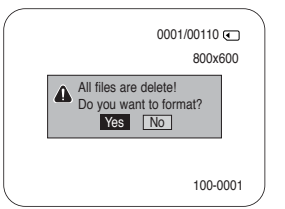
4



6



7



[Notes]

- If you want to format the Memory Stick on your PC, use only the “MS formatter” supplied with the software CD.
- The MS formatter is exclusive program of the Memory Stick.
- If you execute the Format function,all still images/motion clips will be erased completely and erased still images/motion clips cannot be recovered.
- Formatting the Memory card using a different device will cause Memory card read errors.
- Formatting the Memory card deletes all the stored data in the Memory card.
- Do not turn the power off in the middle of the formatting.
- A Memory Stick with the protection tab set to save, will not be formatted. (see page 86)

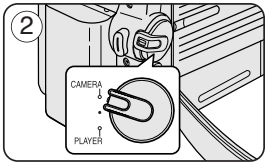
Digital Still Camera mode (SCD353/D354/D355 only)

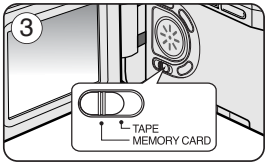
MPEG Recording

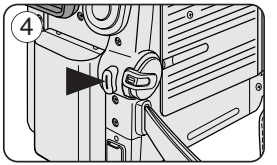
- ✤ You can record moving picture images with audio on the Memory card.
- ✤ The screen format of the moving picture to be recorded is 720x480.

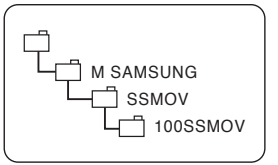
Saving the Pictures captured by a Camera as a Moving Picture File on Memory Card

1. Check whether Memory card is inserted into the Camcorder.
   If it is not in the Camcorder, insert it into the slot.
2. Set the **Power** switch to **CAMERA**.
3. Set the **Mode** switch to **MEMORY CARD**.
4. Press the **Start/Stop** button, the images are recorded on the Memory card in MPEG4.
   You can record a camera still image on Memory card by pressing the **PHOTO** button instead of the **Start/Stop** button.
5. Press the **Start/Stop** button to stop the recording.









<Moving image>

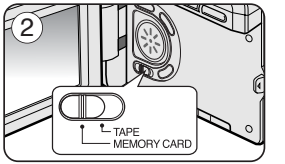
[Notes]

- **MENU button and Menu selector are not available while MPEG recording.**
  To use MENU button and Menu selector, stop recording.
  MPEG recording is not available when a menu or navigation menu is displayed on the screen.
  To start recording, stop displaying OSD by pressing the MENU button.
- Before using the MPEG REC function, check whether the Memory card is inserted into the Camcorder.
- Moving images that you recorded are saved in *.avi(avi 1.0) file format on the Memory card.
- The file that you recorded are saved in a following folder.
- The moving picture images on a Memory card are smaller size and lower definition than one on tape.
- The sound is recorded in type of stereo.
- The following functions are not allowed in M.Cam Mode.
  DIS (Digital Image Stabilizer), Digital Zoom, Fade, Program AE, Digital Effect, Slow Shutter.
- While you record in Memory card, don't insert or eject the tape as it may record noise.
- While you record in Memory card, don't eject Memorye card or it might break the data on the Memory card or Memory card itself.

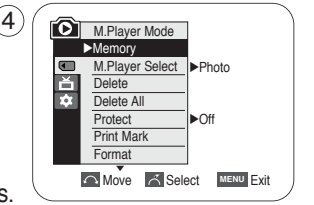
Digital Still Camera mode (SCD353/D354/D355 only)

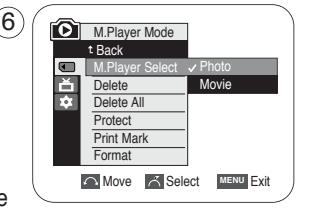
MPEG Playback

- ✤ The MPEG Playback function works only in M. Player mode.
- ✤ You can play the moving picture images on the Memory card.
  Stereo audio is played back at the same time.



1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **MEMORY CARD**.
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **M.Play Select**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Movie**, then press the **Menu selector**.
7. To exit the menu, push the **MENU** button.
8. Using the ◀◀/▶▶ (REV/FWD) buttons, search for the moving picture that you want to playback.
9. Press the ▶/❚❚ (PLAY/STILL) button.
   - The moving pictures recorded on the Memory card are playing back.
   - You can control playback using the ▶/❚❚ (PLAY/STILL) ◀◀/▶▶ (REV/FWD)/■ (STOP) buttons.





[Notes]

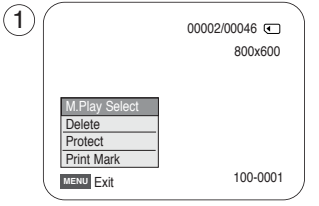
- **MENU button and Menu selector are not available while MPEG playback.**
  To use MENU button and Menu selector, stop playback.
  MPEG playback is not available when a menu or navigation menu is displayed on the screen.
  To start playback, stop displaying OSD by pressing the MENU button.
- There could be any broken or mosaic pictures while playing the MPEG4 moving picture images, but it is not malfunction.
- The moving picture images that you recorded on the Memory card might not be allowed to play by the Camcorder of another brands.
- The MPEG4 file recorded by another Camcorder might not be allowed to play by this Camcorder.
  - You need Microsoft Windows Media Player Version 9 or higher version in order to play MPEG4 file on the Memory card on your PC. (Microsoft Windows Media Player Version 9 (Eng) is included in the CD that is supplied.)
  - You can download the Microsoft Windows Media Player applied each languages on Microsoft Website, “http://www.microsoft.com/windows/windowsmedia/download/ default.asp”.
- To playback MPEG4 moving picture on a PC, the DVC Media Pro (in the CD provided with the camcorder) should be installed.
- DVC Media Pro contains the dedicated video Codec for playing back the moving picture recorded by this camcorder.
- Moving picture of MPEG4 format recorded by other device may not playback with this Camcrder

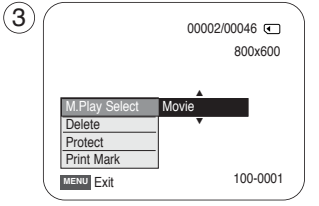
Digital Still Camera mode (SCD353/D354/D355 only)

Using Quick Menu: M.Play Select

- ✤ Quick menu is used to access Camcorder functions by simply using the Menu selector.
- ✤ Quick menu provides easier access to the frequently used menus without using the MENU button.

1. Press the **Menu selector**.
2. Move the **Menu selector** to the left or right to select **M.Play Select**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select **Photo** or **Movie**, then press the **Menu selector**.
4. To exit, press the **MENU** button.





Digital Still Camera mode (SCD353/D354/D355 only)

Recording an Image from a Cassette as a Still Image

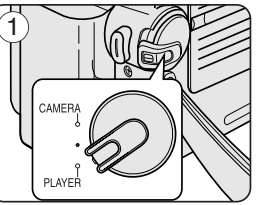
- ✤ You can record still image from a cassette on a Memory card.
- ✤ If you want to move recorded multiple still images from a cassette to a Memory card, use the COPY function.

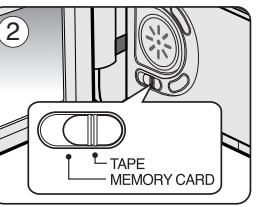
1. Set the **Power** switch to **PLAYER**.

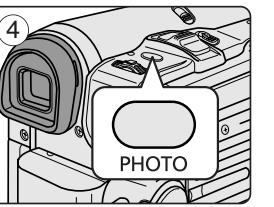
2. Set the **Mode** switch to **TAPE**.

3. Playback the cassette.

4. Press the **PHOTO** button.
   - The still image is recorded on the Memory card.
   - The ▶▶▶ indicator appears LCD screen during the time it takes to save the image.







[Notes]
- Still images copied from the cassette to the memory card are saved in a 640x480 format.
- Number of images you can save varies depending on the image resolution.

Digital Still Camera mode (SCD353/D354/D355 only)

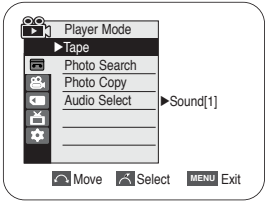
Copying Still Images from a Cassette to Memory card

- ✤ You can copy still images recorded with photo function on a cassette into a Memory card.
- ✤ Rewind the tape to the point which you wants.

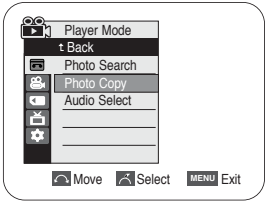
1. Set the **Power** switch to **PLAYER**.
2. Set the **Mode** switch to **TAPE**.
3. Press the **MENU** button.
   ■ The menu list will appear.
4. Move the **Menu selector** to the left or right to select **Tape**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **Photo Copy**, then press the left or right.
   All still images that recorded on a cassette will be copied into a Memory card.
6. The Camcorder automatically performs the photo search to find still images and copy starts.
7. Press the ■(STOP) button to stop copying.
   Copy stops when the cassette is finished or Memory card is full.

[Note]
Still images copied from the cassette to the memory card are saved in a 640x480 format.

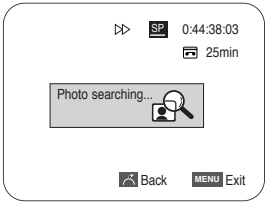
4



5



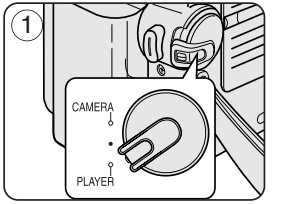
6



Digital Still Camera mode (SCD353/D354/D355 only)

Copy to (Copies files from the Memory Card to the built-in Memory) (SCD354/D355 only)

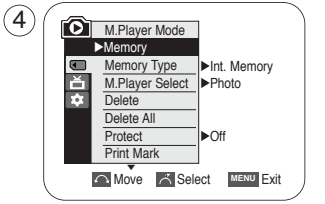
- ✤ The Copy to function works only in M.Player mode.
- ✤ You can copy selected or all images stored in the Memory card to the built-in memory.



1. Set the **Power** switch to **PLAYER**.

2. Set the **Mode** switch to **MEMORY CARD**.

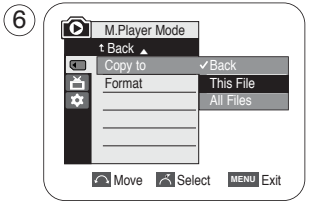
3. Press the **MEMU** button.
   - The menu list will appear.



4. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.

5. Move the **Menu selector** to the left or right to select **Copy to**, then press the **Menu selector**.

6. Move the **Menu selector** to the left or right to select options(**Back**,**This File** or **All Files**), then press **Menu selector**.
   To go back to the previous mode, select **Back**.
   If This File or All Files was selected, **Now copying…** is displayed on the screen and copying starts.



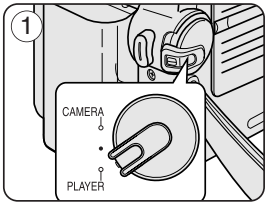
7. To exit, press the **MENU** button.

Digital Still Camera mode (SCD353/D354/D355 only)

USB Select

- ✤ USB Select function works only in M.Player mode.
- ✤ Using the USB cable, you can connect your Camcorder to a computer to copy your movies and images from the Memory card (or built-in memory;SCD354/D355), or to a printer to print your images.

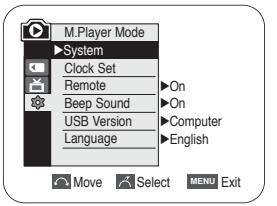
1. Set the **Power** switch to **PLAYER**.



2. Set the **Mode** switch to **MEMORY CARD**.

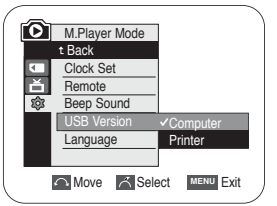
3. Press the **MENU** button.
   - The menu list will appear.

4. Move the **Menu selector** to the left or right to select **System**, then press the **Menu selector**.



5. Move the **Menu selector** to the left or right to select **USB Version**, then press the **Menu selector**.

6. Move the **Menu selector** to the left or right to select **Computer** or **Printer**, then press the **Menu selector**.



7. To exit, press the **MENU** button.

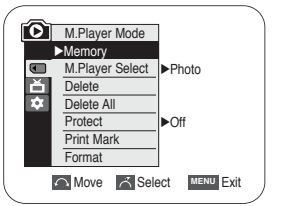
Digital Still Camera mode (SCD353/D354/D355 only)

Marking images for printing

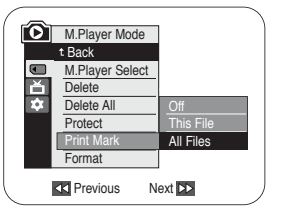
- ✤ This Camcorder supports the DPOF (Digital Print Order Format) print format.
- ✤ You can automatically print images recorded on a Memory card with a printer supporting DPOF.
- ✤ There are 2 ways to make a Print Mark.
  - This File: You can set a print mark on the photo image displayed on the LCD screen screen.
  - All Files: To print 1 copy each of all of the stored images.

1. Set the **Mode** switch to **MEMORY CARD**.
2. Set the **Power** switch to **PLAYER**.
   - The last recorded image appears.
3. Using the ◀◀ / ▶▶ (REV/FWD) buttons, search for the still image that you want to mark.
4. Press the **MENU** button.
   - The menu list will appear.
5. Move the **Menu selector** to the left or right to select **Memory**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Print Mark**, then press the **Menu selector**.
7. Move the **Menu selector** to the left or right to select desired option(**Off**, **This File** or **All Files**), then press the **Menu selector**.
8. If you select This File, move the **Menu selector** to the left or right to select the quantity, then press the **Menu selector**.
9. To exit, press the **MENU** button.

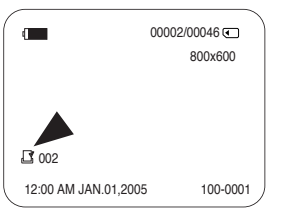
5



7



9

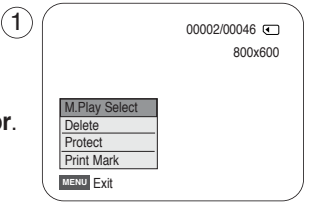


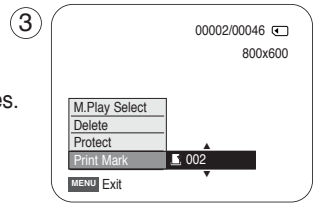
Digital Still Camera mode (SCD353/D354/D355 only)

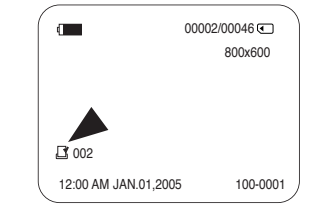
Using Quick Menu: Print Mark

- ✤ Quick menu is used to access Camcorder functions by simply using the Menu selector.
- ✤ Quick menu provides easier access to the frequently used menus without using the MENU button.

1. Press the **Menu selector**.
2. Move the **Menu selector** to left or right to select **Print Mark**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to select the quantity, then press the **Menu selector**.
4. To exit, press the **MENU** button.







[Notes]

- When you setup the Print Mark option to All Files, 999 files from the current file are set to 1 or 0.
- The All Files option may require extended operation time depending on the number of stored images.
- DPOF supporting printers are commercially available.
- Use the USB cable provided with the Camcorder.

PictBridge™

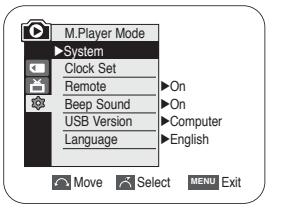
Printing Your Pictures – Using the PictBridge™

- By connecting the camera to printers with PictBridge support (sold separately), you can send images from the Memory card directly to the printer with a few simple operations using the camera buttons.
- With the PictBridge Support, you can control the printer directly through your camera in order to print out stored pictures. For direct printing of your stored pictures using the PictBridge function, you must connect your camera to a PictBridge printer using a USB cable.

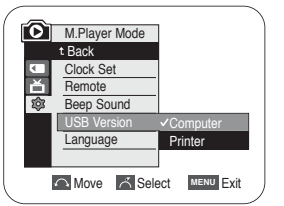
Connecting To a Printer

1. Turn your printer power off.
   Turn your camera on by setting the **Power** switch to **CAMERA**.
2. Set the **Mode** switch to **MEMORY CARD**. (SCD353/D354/355 only)
3. Press the **MENU** button.
   - The menu list will appear.
4. Move the **Menu selector** to the left or right to select **System**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select **USB Version**, then press the **Menu selector**.
6. Move the **Menu selector** to the left or right to select **Printer**, then press the **Menu selector**.
   - Computer: Connect to a computer.
   - Printer: Connect to a printer. (To use the PictBridge function, connect to a printer.)
7. Connect your Camcorder to the printer using the provided USB cable.
8. Turn your printer power on.
   The PictBridge menu screen appears automatically after a short period.
   The cursor highlights the item Printer.

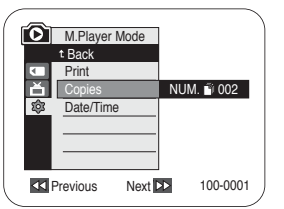
4



6



2



Selecting Images

1. In the PictBridge settings menu, press the ◀◀ / ▶▶ (REV/FWD) buttons to select an image to print.

Setting the number of prints

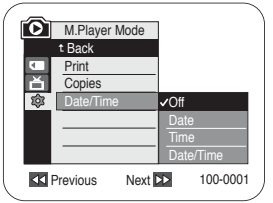
2. Move the **Menu selector** to the left or right to select **Copies**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to set the number of prints, then press the **Menu selector**.

PictBridge™

Setting the Date/Time Imprint Option

4. Move the **Menu selector** to the left or right to select **Date/Time**, then press the **Menu selector**.
5. Move the **Menu selector** to the left or right to select the display type of the **Date/Time**, then press the **Menu selector**.
   - Display type of Date/Time: Off, Date, Time, Date/Time

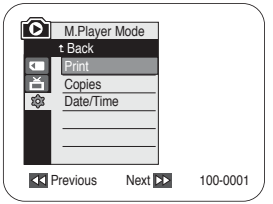
5



Printing Images

6. Move the **Menu selector** to the left or right to select **Print**, then press the **Menu selector**. Prints out selected image files.

6

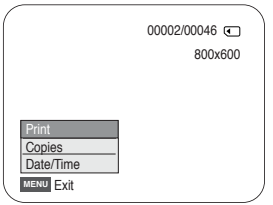


Using Quick Menu: Printing Your Pictures

✤ Quick menu is used to access Camcorder functions by simply using the **Menu selector**.
✤ Quick menu provides easier access to the frequently used menus without using the MENU button.

1. Press the **Menu selector**.
2. To print selected image files, press the **Menu selector** again.
   To print multiple copies of an image, move the **Menu selector** to the left or right to select **Copies**, then press the **Menu selector**.
3. Move the **Menu selector** to the left or right to set the number of copies, then press the **Menu selector**.
4. Move the **Menu selector** to the left or right to select **Print**, then press the **Menu selector**.
5. To exit, press the **MENU** button.

4



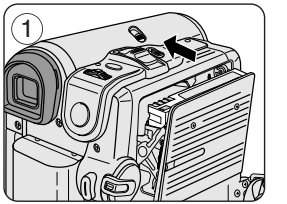
[Notes]

- The PictBridgeTM is a registered trademark of CIPA(Camera & Imaging Products Association), an image transfer standard developed by Canon, Fuji, HP, Olympus, Seiko Epson, and Sony.
- PictBridge supporting printers are commercially available.
- Use the USB cable provided with the Camera.
- Use the AC power adapter for your camera during PictBridge Direct Printing. Turning your camera off during the printing might damage data on the Memory card.
- Printing still images is supported. Motion clips are not available for printing.
- You can set various printing options depending on the printer.
- Please refer to the user's manual of the printer.

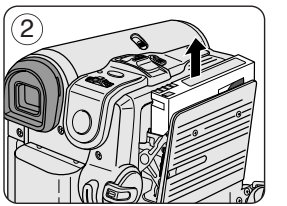
Maintenance

After finishing a recording

- ✤ At the end of a recording you must remove the power source.
- ✤ When recording with a 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.

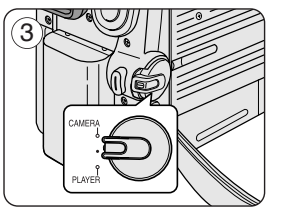


1. Slide the **TAPE EJECT** switch in the direction of the arrow.
   - Opening the cassette door ejects the tape automatically.
   - Please wait while the tape is completely ejected.

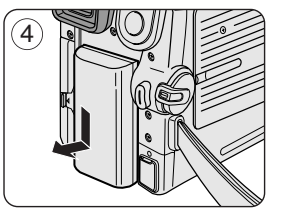


2. After removing the tape, close the door and store the Camcorder in a dust free environment. Dust and other foreign materials can cause square-shaped noise or jerky images.

3. Set the **Power** switch to the **Off**.



4. Disconnect the power source or remove the lithium ion Battery pack.
   Press the **BATTERY RELEASE** button and slide the Battery pack in the direction of the arrow.

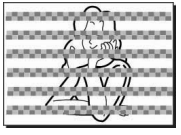


Maintenance

Cleaning and Maintaining the Camcorder

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 distortion, or a blue screen appears.



(blue screen)

1. Set the **Power** switch to **PLAYER**.
2. Insert the cleaning tape.
3. Press the ▶/❚❚ (PLAY/STILL) button.
4. Press the ■ (STOP) button after 10 seconds.

[Notes]

- Check the quality of the picture using a videocassette.
  - If the picture quality has not improved, repeat the operation.
  - If the problem continues, contact your local authorized service center.
- Clean the video heads with a dry type cassette cleaner.
- Some cleaning cassette products stop automatically. Refer to the cleaning cassette's instructions for detailed information.
  If the problem continues after the cleaning, consult your nearest Samsung dealer or Authorized Service Center.

Maintenance

Using Your Camcorder Abroad

- Each country or region has its own electric and color systems.
- Before using your Camcorder abroad, check the following items.

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 jack adapter, if necessary, depending on the design of the local wall outlet.

Color system

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

PAL-compatible Countries/Regions
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, Romania, Saudi Arabia, Singapore, Slovak Republic, Spain, Sweden, Switzerland, Syria, Thailand, Tunisia, etc.

NTSC-compatible Countries/Regions
Bahamas, Canada, Central America, Japan, Korea, Mexico, Philippines, Taiwan, United States of America, etc.

[Note]
You can make recordings with your Camcorder and view pictures on the LCD screen from anywhere in the world.

Troubleshooting

Troubleshooting

✤ Before contacting a Samsung authorized service center, 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.
Tape end!	slow	When the remaining time on the tape is about 2 minutes	Prepare a new one.
Tape end!	no	the tape reached its end.	Change to a new one.
No Tape!	slow	there is no tape in Camcorder.	Insert a tape.
Protection!	slow	the tape is protected from recording.	If you want to record, release the protection.
⏏....D L C R	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.
◆	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.

Troubleshooting

Self Diagnosis Display in M.Cam/M.Player modes (SCD353/D354/D355 only)

Display	Blinking	Informs that...	Action
No Memory Cord!	slow	There is no Memory card in the Camcorder.	Insert a Memory card.
Memory Full!	slow	There is not enough memory to record.	Change to a new Memory card. Erase recorded image.
No image!	slow	There are no images recorded on the Memory card.	Record new images.
Write protect!	slow	The Memory card is record protected.	Release the write protect tab on the Memory card.
Protect!	slow	When you try to delete to protected image.	Cancel the protection of image.
Read error!	slow	The camera can not playback.	Format a Memory card or insert Memory card recorded on this Camcorder.
Write error!	slow	The camera can not record.	Format a Memory card or change to a new Memory card.
Not Formatted!	slow	The Memory card needs to format.	Format a Memory card. (see page 98)
Now delete...	slow	When progressing file delete.	Wait until delete has been finished.
Now formatting...	slow	When progressing memory format.	Wait until format has been finished.
Now copying...	slow	When progressing file copy.	Wait until copy has been finished. Or press the stop button.

Troubleshooting

❖ If these instructions do not solve your problem, contact your nearest Samsung authorized service center.

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 Manual 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 a broken block image during the record search.	This is normal operation and it is not a failure or defect.

Specifications

Model name: SCD351/D352/D353/D354/D355

System	
Video signal	NTSC
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. 18.81mm/s LP: approx. 12.56mm/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	F1.4 20x(Optical), 900x(Digital) Electronic zoom lens
Filter diameter	Ø30
LCD screen/Viewfinder	
Size/dot number	2.5inchs 112k
LCD screen Method	TFT LCD
Viewfinder	B/W LCD (SCD351/D352/D353/D354 only), Color LCD (SCD355 only)
Connectors	
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	4pin special in/out connector
USB output	Mini-B type connector
External mic	Ø3.5 stereo

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)	4.3W(LCD), 4.1W(Viewfinder)
Operating temperature	0˚~40˚C (32˚F~104˚F)
Storage temperature	-20˚C ~ 60˚C (-4˚F ~ 140˚F)
External dimension	Height 3.62inches(92mm), Length 4.63inches(117.5mm), Width 2.52inches(64mm)
Weight	410g (Except for Lithium Ion Battery Pack and tape)
Built-in MIC	Omni-directional stereo condenser microphone
Remote control (SCD354/D355 only)	Indoors: greater than 49ft(15m) (straight line), Outdoors: about 16.4ft(5m) (straight line)

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

Index

- A -

Accessories 12
AF/MF 58
Audio Dubbing 77
Audio Mode 55

- B -

Battery Pack 21
BLC 46

- C -

Cassette 36
Cleaning 111
Clock Set 27
Connecting 71

- D -

Date/Time 33
DC Cable 30
Deleting 96
Demonstration 31
DIS 61
Digital Effect 65
DV 79, 80

- E -

EASY Q Mode 40
Exposure 57

- F -

Fade 45
Formatting 98
Frame advance 74
Functions buttons 13

- H -

Hand Strap 18

- I -

IEEE1394 79

- L -

LCD 32

- M -

Memory card 85
Memory Stick 84
MPEG Recording 99

- O -

OSD 24, 25

- P -

Photo Copy 103
Photo Quality 88
Photo Search 68
Program AE 63
Protection 94

- R -

Rec Mode 54
Rec Search 41
Remote control 17, 43

- S -

Shutter Speed 57
Sound 70
Speaker 70
Still images 91

- T -

Tele MACRO 44
TV Display 34

- U -

USB 81

- V -

Viewfinder 35

- W -

White Balance 59
Wind Cut 56
WL. Remote 28

- Z -

ZERO MEMORY 42
Zoom 44

Warranty (SEA users only)

SAMSUNG
LIMITED WARRANTY

SAMSUNG Electronics America Inc. (SEA), warrants that this product is free from defective material and workmanship. SEA further warrants that if product fails to operate properly within the specified warranty period and the failure is due to improper workmanship or defective material, SEA will repair or replace the product at it's option.
All warranty repairs must be performed by a SEA authorized service center. The name and address of the location nearest you can be obtained by calling toll free: 1-800 SAMSUNG (1-800-726-7864).
Labor
90 days carry-in
Parts
1 year

On carry-in models, transportation to and from the service center is the customer's responsibility.

The original dated sales receipt must be retained by the customer and is the only acceptable proof of purchase.
It must be presented to the authorized service center.

EXCLUSIONS (WHAT IS NOT COVERED)

This warranty does not cover damage due to accident, fire, flood and/or other acts of God; misuse, incorrect line voltage, improper installation, improper or unauthorized repairs, commercial use, or damage that occurs in shipping.
Exterior and interior finish, lamps, and glass are not covered under this warranty.
Customer adjustments which are explained in the instruction manual are not covered under the terms of this warranty.
This warranty will automatically be voided for any unit found with a missing or altered serial number. This warranty is valid only on products purchased in the United States and Puerto Rico.

Some States do not allow the exclusions or limitations of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.
This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

ENGLISH

THIS CAMCORDER IS MANUFACTURED BY:

SAMSUNG
ELECTRONICS

SERVICE DIVISION
400 Valley Road, Suite 201, Mt. Arlington N.J. 07856
Tel: 1-800-SAMSUNG
(1-800-726-7864)

***Samsung Electronics' Internet Home Page**

http://www.samsungusa.com

AD68-000839B