Digital Video Camcorder

SC-M102/M105/M110

* Samsung Electronics' Internet Home Page
http://www.samsung.com
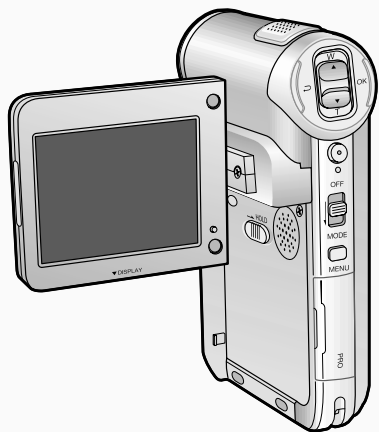
Integrated Digital CAM/DSC operation

An integrated digital imaging device that easily converts between a Digital CAM and a Digital Still Camera with comfortable and easy recording.

High Resolution Image Quality (Digital Still Camera)

Employing 800K CCD Pixel, a maximum resolution of 800x600 is available.

100x Digital Zoom

Allows the user to magnify an image up to 100x its original size.

Colorful TFT LCD

A high-resolution (210K) colorful TFT LCD gives you clean, sharp images as well as the ability to review your recorded files immediately.

Electronic Image Stabilizer (EIS)

With the CAM, you can reduce unstable images by avoiding natural shaking movements.

Various Digital Effects

The DSE (Digital Special Effects) allows you to give the film a special look by adding various special effects.

USB Interface for Data Transfer

You can transfer still images and video file or any other files to a PC using the USB interface.

PC Cam for multi-entertaining

You can use this the CAM as a PC camera for video chatting, video conference and other PC camera applications.

Voice Record / Playback with vast memory

You can record voice and store it in the internal memory, Memory Stick and Memory Stick Pro (Option) and playback the recorded voice. The unit is tapless and records on Memory Sticks.

Plus Advantage, MP3

With the CAM, you can playback MP3 files stored in the internal memory, Memory Stick and Memory Stick Pro (Option).

Precautions on the CAM Care

1. Please note the following precautions for use:
2. Please keep this device in a safe place. The device contains a lens that can be damaged by shock. Keep away from the reach of the children.

- Do not place your device in a wet place. Moisture and water may cause the device to malfunction.
- To avoid electric shock, do not touch your device or power cable with wet hands.
- Do not use the flash close to another's eyes. The flash emits a strong light that may cause damage similar to direct sunlight on one's eyesight. Particular care should be observed if photographing infants, when the flash should be no less than 3 feet from your subject.
- If the device is not working properly, please consult your nearest dealer or authorized Samsung service facility. Disassembling the device yourself may cause irrecoverable damage which will be difficult to repair.
- Clean the device with a dry, soft cloth. Use a soft cloth moistened with a mild detergent solution for removing stains. Do not use any type of solvent, especially benzene, as they may seriously damage the finish.
- Keep your device away from rain and saltwater. After using, clean the device. Saltwater may cause the parts to corrode.

Notes Regarding COPYRIGHT

1. Television programs, movie video tapes, DVD titles, films and other program materials may be copyrighted. Unauthorized recording of copyrighted materials may infringe on the rights of the Copyright owners and is contrary to copyright laws.
2. All the trade names and registered trademarks mentioned in this manual or other documentation provided with your Samsung product are trademarks or registered trademarks of their respective holders.

Notes Regarding Moisture Condensation

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

For Example:

- Entering or leaving a heated place on a cold day might cause condensation inside the product.
- To prevent condensation, place the product in a carrying case or a plastic bag before exposing it to a sudden change of temperature.

Notes Regarding the CAM

1. Do not leave the CAM exposed to high temperature (above 60°C or 140°F).
   For example, in a parked closed car in summer or exposed to direct sunlight.
2. Do not let the CAM get wet.
   Keep the CAM away from rain, salt water, or any other form of moisture.
   The CAM will be damaged if immersed in water or subjected to high levels of moisture.

Notes Regarding the Battery Pack

- It is recommended to use original battery pack that is available at SAMSUNG service center.
- Make sure the battery pack is fully charged before starting to record.
- To preserve battery power, keep the CAM turned off when you are not operating it.
- If your device is left in STBY mode without being operated for more than 5 minutes, it will automatically turn itself off to protect against unnecessary battery discharge.
- Make sure that the battery pack is attached firmly in place.
- The new battery pack provided with the product is not charged. Before using the battery pack, you need to fully charge it.
- Do not drop the battery pack. Dropping the battery pack may damage it.
- Fully discharging a Lithium Polymer battery damages the internal cells. The battery pack may be prone to leakage when fully discharged.
- To avoid damage to the battery pack, make sure to remove the battery when no charge remains.
- Clean the terminal to remove foreign substance before inserting the battery pack.

✼ When the battery reaches the end of its life, please contact your local dealer. Batteries must be disposed of as chemical waste.
✼ Be careful not to drop the battery pack when you release it from the CAM.

Notes Regarding a Trademark

The logos regarding DivX, DivX Licensed are the trademark of DivX, Network, Inc and can be used after contracting license.

Notes Regarding the Lens

1. Do not film with the camera lens pointing directly at the sun.
2. Direct sunlight can damage the CCD (Charge Coupled Device, the imaging sensor).

Notes Regarding the LCD Display

1. The LCD monitor has been manufactured using the high precision technology. However, there may be tiny dots (red, blue or green in color) that appear on the LCD monitor. These dots are normal and do not affect the recorded picture in any way.
2. When you use the LCD monitor under direct sunlight or outdoors, it maybe difficult to see the picture clearly.
3. Direct sunlight can damage the LCD monitor.

Precautions Regarding Service

1. Do not attempt to service the CAM yourself.
2. Opening or removing covers may expose you to dangerous voltage or other hazards.
3. Refer all servicing to qualified service personnel.

Precautions Regarding Replacement Parts

1. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer and having the same characteristics as the original part.
2. Unauthorized substitutions may result in fire, electric shock or other hazards.
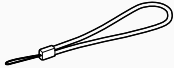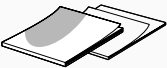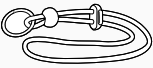
Rear & Left View
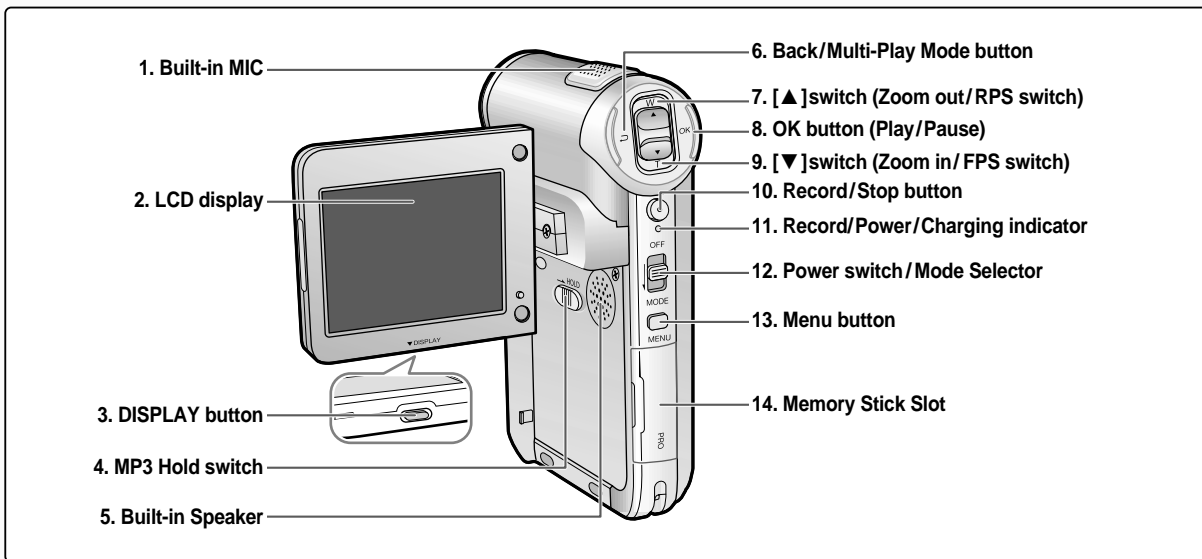
1. Built-in MIC

2. LCD display

3. DISPLAY button

4. MP3 Hold switch

5. Built-in Speaker

6. Back/Multi-Play Mode button

7. [▲]switch (Zoom out/RPS switch)

8. OK button (Play/Pause)

9. [▼]switch (Zoom in/FPS switch)

10. Record/Stop button

11. Record/Power/Charging indicator

12. Power switch/Mode Selector

13. Menu button

14. Memory Stick Slot

1 Built-in MIC
2 LCD display
3 DISPLAY button
4 MP3 Hold switch
5 Built-in Speaker
6 Back/Multi-Play Mode button
7 [▲]switch (Zoom out/RPS switch)
8 OK button (Play/Pause)
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10 Record/Stop button
11 Record/Power/Charging indicator
12 Power switch/Mode Selector
13 Menu button
14 Memory Stick Slot

Accessories Supplied with the CAM

Make sure that the following basic accessories are supplied with your CAM.

1. Lithium Polymer Battery pack	2. AC Power Adapter	3. Video/Audio Cable	4. USB Cable
5. Cradle	6. Earphones	7. Hand Strap	8. Carrying Case
9. Instruction Book/Quick Guide	10. Software CD	11. Lens Cover	12. Neck Strap
13. Extended life Battery Pack (Option)			

Basic Accessories

1. Lithium Polymer Battery pack
2. AC Power Adapter
3. Video/Audio Cable
4. USB Cable
5. Cradle
6. Earphones
7. Hand Strap
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10. Software CD
11. Lens Cover
12. Neck Strap

Optional Accessories

13. Extended life Battery Pack (Option)

Right & Bottom View

Hanging Lens Cover on the CAM

1. Lens
2. Light
3. Earphones and AV Output Jack
4. Battery insertion part
5. Battery eject button
6. Volume +, - / MF(Manual Focus) button
7. Tripod Receptacle
8. Cradle Receptacle
9. Strap Hook

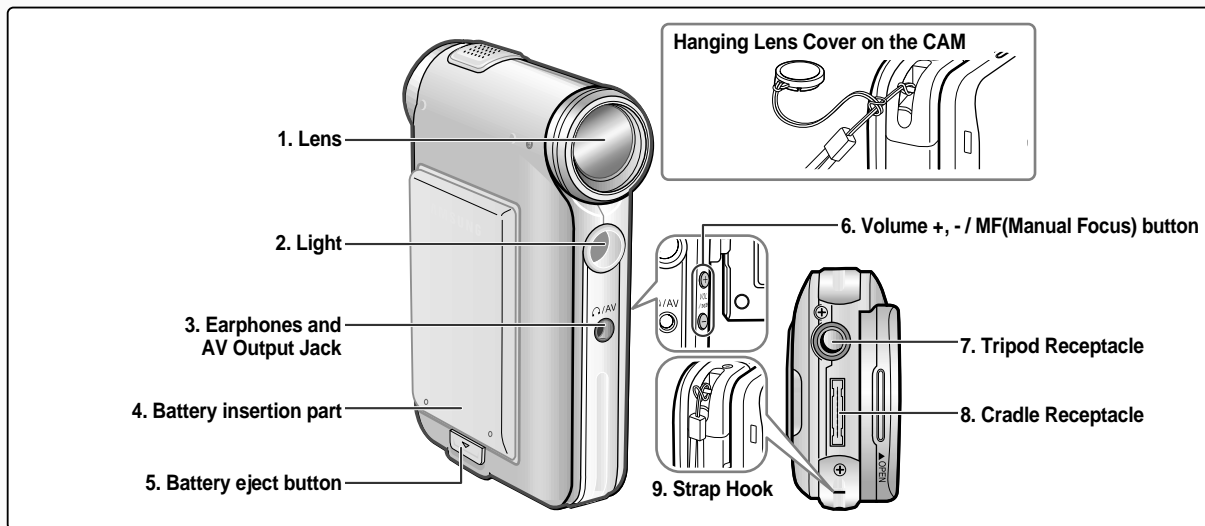| 1 | **Lens** |
2	**Light**
3	**Earphones and AV Output Jack**
4	**Battery insertion part**
5	**Battery eject button**
6	**Volume +, - / MF (Manual Focus) button**
7	**Tripod Receptacle**
8	**Cradle Receptacle**
9	**Strap Hook**

Video Mode

Recording

You can record video and store it in memory.

1. Slide [Mode Selector] down to turn on the CAM.
   ◆ The Video Record screen appears.
   ◆ You can select Video mode or Previous mode as the start-up mode in System Settings.

2. Press [Record/Stop] button to start recording.
   ◆ [● *REC*] indicator displays on LCD.
   ◆ The elapsed and remaining times are displayed and it starts recording.

3. Press the [Record/Stop] button again to stop recording.
   ◆ It stops recording and the CAM is ready again.

4. Slide [Mode Selector] up to turn off the CAM.

Notes

✿ If the Auto Shut Off is set, the CAM turns off automatically after 5 minutes.
✿ Detach the Battery Pack when you finish recording to prevent unnecessary battery power consumption.
✿ You can check the recording time.

Elapsed time   Remaining time

00:00 / 10:57
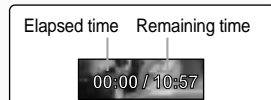
Playing on the LCD Monitor

You can view playback of video files on the LCD monitor.

1. Slide [Mode Selector] down to turn on the CAM.
   ◆ The Video Record screen appears.

2. Press the [Menu] button and slide the [▲/▼] switch.
   Press the [OK] button after selecting <Play>.

3. Slide the [▲/▼] switch to find the video file you want to play.
   ◆ Each time you slide the [▲/▼] switch, the frame moves horizontally.
   ◆ Each time you press the [+]/[-] button, another page of 6 frames is displayed.

4. Press [OK] button to play the video file you want.
   ◆ Each time you press the [OK] button, play or pause is selected repeatedly.

5. Press the [Back] button after pressing the [OK] button to stop playing.

Notes

✿ You can press the [Back] button to go directly to the first page of 6 frames.
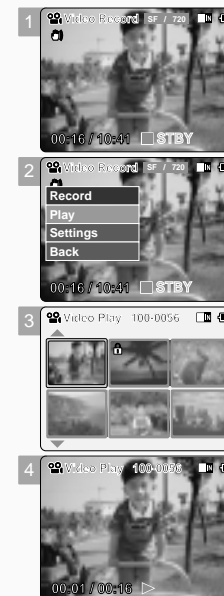
Photo Mode

Capturing Images

You can take photos as well as record video files.

1. Slide [Mode Selector] down to turn on the CAM and slide it down again.
   ◆ The <Mode Selection> screen appears.

2. Slide the [▲/▼] switch to select *Photo* mode and press the [OK] button.
   ◆ The CAM is ready for taking pictures.
   ◆ [🖻] indicator is displayed on LCD.

3. Press [Record/Stop] button to take pictures.

1

> Mode Selection
> 🎥 Video
> 🖻 Photo
> ♪ MP3
> 🎤 Voice Recorder
> 📄 File Browser

2

> 🖻 Photo Capture 800

3

> 🖻 Photo Capture 800

Note

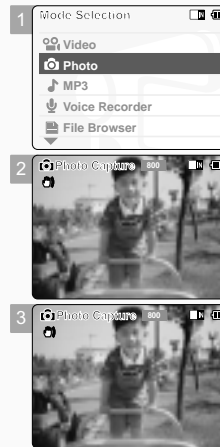�շ If the battery is low and the battery charge icon blinks, the light will not operate and the light icon(⚡) will not appear in the LCD screen.

Viewing Photo files on the LCD Monitor

The LCD monitor allows you to view your photo right after taking them.

1. Slide [Mode Selector] down to turn on the CAM and slide it down again.
   ◆ The <Mode Selection> screen appears.

2. Slide the [▲/▼] switch to select *Photo* mode and press the [OK] button.
   ◆ The Photo Capture screen appears.

3. Press the [Menu] button and slide the [▲/▼] switch.
   Press the [OK] button after selecting <View>.

4. Slide the [▲/▼] switch to find the photo you want to view.
   ◆ Each time you slide the [▲/▼] switch, the frame moves horizontally.
   ◆ Each time you press the [+]/[-] button, a page(6 frames) moves.

5. Press [OK] button to view the photo you want.
   ◆ The full screen displays.

2

> Mode Selection
> 🎥 Video
> 🖻 Photo
> ♪ MP3
> 🎤 Voice Recorder
> 📄 File Browser

3

> 🖻 Photo Capture 800
> Capture
> View
> Settings
> Back

4

> 🖻 Photo View 100-0022

5

> 🖻 Photo View 100-0022

Note

�շ Display time may vary depending on the picture size.

MP3 Mode

Copying Music files to the CAM

You can transfer music files from your PC to the internal memory, Memory Stick or Memory Stick Pro.
For copying music files, the CAM must be connected to your PC with the USB cable.

1. Connect the CAM to a PC with the USB cable.
   ◆ Your computer recognizes the CAM and the symbol for removable drive will appear in 'My Computer'.

2. Double-click the new removable drive to open.

3. Select the MP3 folder and double-click to enter.

4. Drag and drop the MP3 file from your PC into the MP3 folder under MSAMSUNG.

> USB
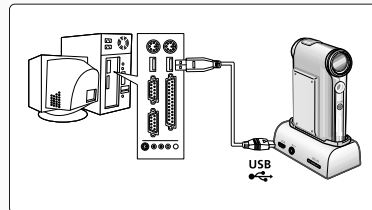
Disconnecting USB Connection

After completing the data transfer, you must disconnect the cable in the following way.
1. Select the removable disk icon and click the right mouse button to select 'Safely Remove Hardware'.
2. Select 'Stop' and disconnect the USB cable when the pop-up screen disappears.

Notes

�శ Transferring and playing with the Memory Stick operates in the same way as the internal memory.
�శ When connecting the CAM to your PC, if the message 'USB-D07 Capture Device hasn't passed Windows Logo testing' appears, do not be concerned, it is OK to proceed with file transfer.
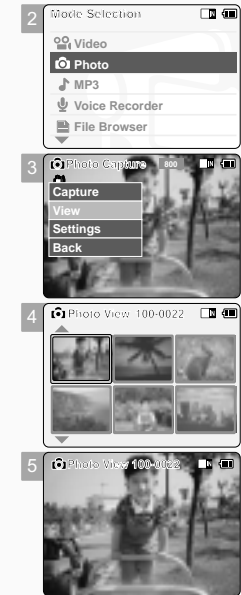
Playing Music files

You can hear the music copied from your PC directly or with the Memory Stick.

1. Connect the earphones to the CAM.
   ◆ You can also hear the music from the Built-in speaker without the earphones.

2. Slide [Mode Selector] down to turn on the CAM and slide it down again.
   ◆ The <Mode Selection> screen appears.

3. Slide the [▲/▼] switch to select *MP3* mode and press the [OK] button.

4. Slide the [▲/▼] switch to find the music you want to hear and press the [OK] button.
   ◆ The selected music is played.

5. Press the [OK] button again to stop hearing music.
   ◆ Each time you press the [OK] button, play or pause is selected alternately.

3

> Mode Selection
> 🎥 Video
> 🖻 Photo
> ♪ MP3
> 🎤 Voice Recorder
> 📄 File Browser

4

> ♪ MP3 Play
> 1 hey jude.mp3
> 2 I believe I can fly.mp3
> 3 black or white.mp3
> 4 Let it be.mp3
> 5 What a wonderful world.mp3

5

> ♪ MP3 Play
> 2. I belive i can fly.mp3
> 4.4 Kbytes
> Stereo 44.1KHz 128Kbps
> 03:19 / 04:32 ▶
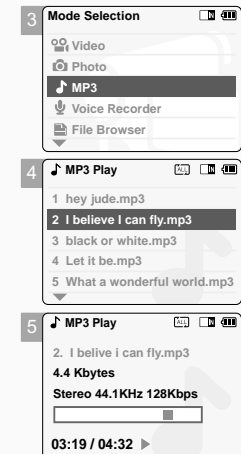
The use of [▲/▼] switch

✿ **Press the [▲] switch**
First 2 seconds after start playing - the previous file appears.
2 seconds after start playing - the first scene of the file appears.

✿ **Press the [▼] switch**
The next file appears.

Voice Recorder Mode
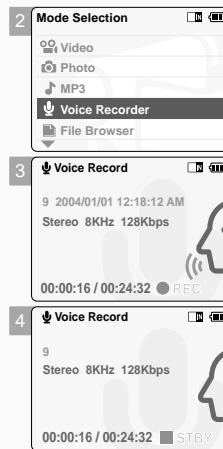
Recording Voice

You can record voice using the built-in microphone in the CAM.

1. Slide [Mode Selector] down to turn on the CAM and slide it down again.
   ◆ The <Mode Selection> screen appears.

2. Slide the [▲/▼] switch to select *Voice Recorder* mode and press the [OK] button.

3. Press the [Record/Stop] button to record voice.
   ◆ The elapsed time and <● **REC** > is displayed. The CAM starts recording.

4. Press the [Record/Stop] button to stop recording voice.
   ◆ < ■ **STBY**> is displayed and it stops recording.

2
Mode Selection
  ⚇ Video
  📷 Photo
  ♪ MP3
  🎤 Voice Recorder
  📄 File Browser

3
🎤 Voice Record
9 2004/01/01 12:18:12 AM
Stereo 8KHz 128Kbps
00:00:16 / 00:24:32 ● REC

4
🎤 Voice Record
9
Stereo 8KHz 128Kbps
00:00:16 / 00:24:32 ■ STBY

Playing Voice files

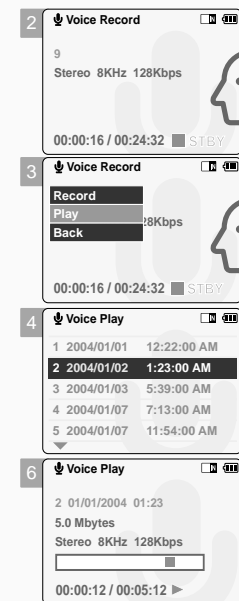You can hear the voice file connecting earphones.

1. Slide [Mode Selector] down to turn on the CAM and slide it down again.
   ◆ The <Mode Selection> screen appears.

2. Slide the [▲/▼] switch to select *Voice Recorder* mode and press the [OK] button.

3. Press the [Menu] button when the <Voice Record> screen appears.

4. Slide the [▲/▼] switch to select <Play> and press the [OK] button.

5. Slide the [▲/▼] switch to select the file you want to play.

6. Press the [OK] button to play the recorded voice.
   ◆ Press the [OK] button to pause playing.

2
🎤 Voice Record
9
Stereo 8KHz 128Kbps
00:00:16 / 00:24:32 ■ STBY

3
🎤 Voice Record
  Record
  Play   28Kbps
  Back
00:00:16 / 00:24:32 ■ STBY

4
🎤 Voice Play
1 2004/01/01   12:22:00 AM
2 2004/01/02   1:23:00 AM
3 2004/01/03   5:39:00 AM
4 2004/01/07   7:13:00 AM
5 2004/01/07   11:54:00 AM

6
🎤 Voice Play
2 01/01/2004 01:23
5.0 Mbytes
Stereo 8KHz 128Kbps
00:00:12 / 00:05:12 ▶

The button and switch you use when playing the recording

Play/Pause [OK] button : Play or pause the voice file
Rewind [▲] switch: Rewind the voice file backward (Press and hold over 2 seconds)/Move to the previous file
Fast Forward [▼] switch: Wind the voice file forward (Press and hold over 2 seconds)/Move to the next file

Note

✿ Press the [Back] button while recording standby status to view the file list.

Cleaning and Maintaining the CAM

After using the CAM

1. For the safekeeping of the CAM, follow these steps.
   - Turn the CAM off.
   - Remove the Battery Pack.
   - Remove the Memory Stick.

2. To prevent any damage to the LCD monitor, do not apply excessive force on its moving parts.

3. Do not drop or in anyway shock the CAM.

4. For prolonged use of the CAM, avoid using it in places subject to excessive humidity or dust.

5. Do not leave the CAM in places subject to:
   - Excessive humidity, steam, soot or dust.
   - Excessive shock or vibration.
   - Extremely high (over 50°C or 122°F) or extremely low (under 0°C or 32°F) temperatures.
   - Strong electromagnetic fields.
   - Direct sunlight or in a closed car on a hot day.

6. For the safe use of the battery pack, follow these.
   - To conserve battery power, be sure to turn off the CAM power when not in use.
   - Battery consumption may vary depending on the condition of use.
     Recording with many starts and stops, frequent zooming,
     and recording in low temperatures will shorten actual recording times.
   - Dispose of used battery packs promptly. Do not dispose of them in fire.
   - The battery pack will become warm during charging and use. This is not a malfunction.
   - The battery pack has a limited service life.
     If the period of use becomes noticeably shorter with a normal charge,
     the battery pack is at the end of its service life. Replace it with a new battery pack.

7. For the safe use of the Memory Stick and the Memory Stick Pro, follow these.
   - The Memory Stick should be stored away from heaters and other heat sources.
     Avoid storing Memory Sticks under direct sunlight and avoid electromagnetic fields.
   - Do not power off any devices while transferring data, as this may destroy the data.
   - Back up your image data often to a hard disk or other permanent storage media.
   - Format the Memory Stick periodically.
   - When formatting the Memory Stick or Memory Stick Pro, format in the CAM.
     If you format it on PC, use the 'Memory Stick Formatter' in the supplied software CD.

Cleaning the Body

To Clean the Exterior of the CAM
- To clean the exterior, use a soft dry cloth. Wipe the body gently.
- Do not apply excessive force when cleaning, gently rub the surface.
- The LCD monitor surface should not be pressed. Use a soft dry cloth to clean the surface.
- To clean the lens, use an optional air blower to blow out dirt and other small objects. Do not wipe the lens with cloth or your fingers. If necessary, use lens cleaning paper.
- Do not use thinner, alcohol or benzene for cleaning. Otherwise, the finish may be damaged.
- Cleaning should be done only after the battery pack has been removed, and other power sources have been disconnected.

Using the Built-in Rechargeable Battery

The CAM incorporates a rechargeable lithium cell that maintains the date and other settings even when the AC adaptor and the battery are removed.
The rechargeable lithium cell is automatically recharged when the CAM is used.

Charging the Built-in Rechargeable Battery

If The CAM is not used at all, the cell runs down in 5 days. In this case, connect the AC adaptor to the CAM and turn on the power switch.
Then leave it for 24 hours. After that, set the date and other settings again.

Self Diagnosis Display

Display	Informs that…	Action
Not enough free space	Not enough free space for saving files	Check the space of internal memory or the Memory Stick.
Corrupted file	The file is corrupted	Delete the corrupted file.
Paper error	The paper is insufficient.	Check the paper in the printer. If there is no paper, insert paper.
Printer error	The paper is caught in the printer.	Check that paper is caught in the printer. Pull out the caught paper.
Ink error	Ink is low.	Check if the ink or toner is low.
Wrong error	The file is wrong.	Check that the file is JPEG.
USB transfer error	The error is occurred while transferring data.	Disconnect the USB cable and connect it again.
Low battery	Battery is low.	Charge the battery pack or connect the AC Adapter.
Holding the key	The hold key is locked.	Unlock the hold key and operate the CAM.
Card error	The memory card is corrupted.	Format the Memory Stick or replace it with a new one.
Not formatted	Format the memory card.	Format the Memory Stick.
Write error	Failed to write.	Check the memory space or format the memory.
Read error	Failed to read.	Delete the file.
Not supported format	The format is not supported.	The AVI or JPEG file that is not supported.
Write protected	Memory Stick is protected to write.	Unlock the Memory Stick.
MPEG decoding error	The video file is corrupted.	Delete the corrupted file.

※ If these instructions do not solve your problem, contact your nearest Samsung dealer or authorized service center/personnel.

Symptom	Possible Causes	Measure
No power is supplied	The power is not connected properly	Connect the AC adapter properly
	The battery is dead	Replace the dead battery pack
	The battery is too cold	Warm up the battery or move to warmer place
DATE/TIME is wrong	The DATE/TIME is not set	Set the DATE/TIME
Focus does not adjust automatically	Focus is set to manual mode	Set focus to AUTO
	Recording was done in a dark place	Use strobe or lit the place
	Lens is covered with condensation	Clear the lens and check the focus
The Memory Stick will not load properly	Memory stick is in wrong position	Insert the Memory Stick properly
	Something is stuck in the Memory Stick slot	Clear the Memory Stick slot
Color balance of picture is not natural	White balance adjustment is required	Set proper white balance
Digital zoom does not work	Digital special effect is applied	Turn off the digital special effects
Files stored in the Memory Stick cannot be deleted	Memory Stick is protected	Remove the protection tab of Memory Stick
	File is locked	Remove the lock on the file
Images on the LCD monitor appear dark	Ambient is too bright	Adjust the brightness and angle of LCD
	Ambient temperature is too low	Low temperatures might produce a dark LCD display
		This is not a malfunction
Rear of the LCD monitor is hot	Prolonged use of LCD monitor	Close the LCD monitor to turn if off, or turn your device off to cool down
Play, rewind and fast forwarding do not work	The Photo Mode is selected	Select 'Video Mode' and select 'Play'
Memory Stick cannot be played back (Photo mode)	The Video Mode is selected	Select 'Photo Mode' and select 'View'
No picture is taken when is fully pressed	Not enough free memory space is remained	Delete files from the Memory Stick
	Memory card is formatted by different devices	Format the Memory Stick on the CAM
Built-in Light will not come on	Light is forced to cancel	Select different Light mode
	Light is not available for recording	Select 'Video Mode'
Cannot Record a video	The 'Photo Mode' is selected	Operating any button will turn the camera on
LCD screen turns off	To save power consumption, the LCD screen and Camera s power turns off if there is no button operation for a certain period of time (depending on operation mode), which is not a malfunctioning	Pressing the button once again will operate its function