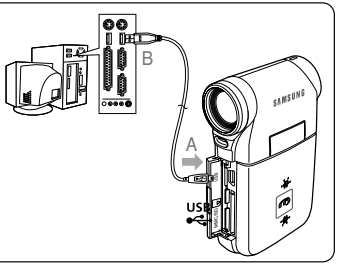
MP3 Mode : Storing MP3 in the Sports Camcorder

Copying MP3 Files to the Sports Camcorder

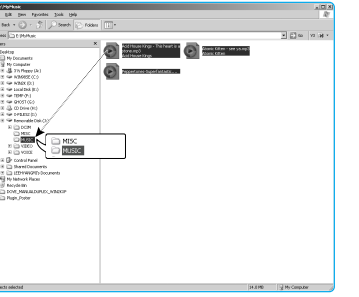
You can copy mp3 files from a PC to the Sports Camcorder while connected to the PC with a USB cable.



Before your start!

- ◆ You can copy the MP3 files when <USB Mode> sets to <Mass Storage> ➥page 98
- ◆ <Mass Storage> is set basically in <USB Mode>.

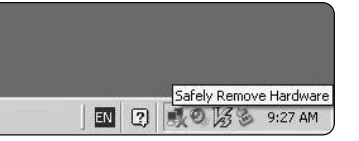
1. Press the [POWER] button to turn on the Sports Camcorder.
   - ◆ The Movie Record screen appears.
2. Connect the Sports Camcorder to the PC using the USB cable provided.
   - ◆ A - Connect the USB cable to the Sports Camcorder.
   - ◆ B - Connect the other end of the USB cable to the PC.
3. Double-click the new removable drive to open.
4. Select the MP3 folder and double-click to enter.
5. Drag and drop the MP3 file from your PC into the MUSIC folder.
   - ◆ The maximum music memory capacity is 2000 MP3 files.



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.



[Warning]

✤ Copying and redistributing of MP3 files may violate the copyright law.

[Notes]

✤ You can copy a folder on your Sports Camcorder.

✤ To see MP3 file capacity with regards to the Sports Cam's memory capacity. ➥page 32.

✤ It is recommended to use an AC Power Adapter during the file transfer to avoid unintended power outage due to low battery power.

MP3 Mode : Playing

Playing MP3 Files

You can play back stored MP3 files.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.
2. Set the **MP3** mode by pressing the [MODE] button.
   - The MP3 playlist appears.
   - If there is no MP3 file stored, the message “No Files...” appears.
3. Select a MP3 file to play by moving the [Joystick] up / down, and then press the [Joystick(OK)].
4. The selected MP3 file is played back.
   - Each time you press the [PLAY] button or [Joystick(OK)], play or pause is selected repeatedly.
   - To adjust volume, move [Joystick] up / down.
     Volume indicator appears and disappears after few seconds.

Using the Joystick (left/right)

Move the [Joystick] left
- Within 2 seconds after starting playback - Previous file plays.
- In Pause/Stop mode - Previous file appears.
- 2 seconds after starting playback - Current file starts again.

Move the [Joystick] right
- During playback - The next file plays.
- In Pause/Stop mode - The next file appears.

Setting to Hold

[MP3/ *External Camera Module HOLD] switch
If you slide the [MP3/ *External Camera Module HOLD] switch down, all buttons except the Power button and Volume control are locked.
The [MP3/ *External Camera Module HOLD] switch operates only in the MP3 mode or when connecting *External Camera Module.

[Notes]
- The MP3 file with tag information will display the artist name. MP3 files with no tag information will leave the item blank.
- If a broken file name is displayed, try renaming it on a PC.
- When language of Setting is not equal to language of Tag information for MP3 file, Artist indicator may not display correctly.
- When the earphones, Audio/Video cable or *External Camera Module cable is connected to the Sports Camcorder, the built-in speaker will turn off automatically. (* Items apply to SC-X205L/X210L/X220L only.)
- Sports Camcorder only supports MP3 file format.
- Damaged or non-standard MP3 files may not display properly or fail to play back.
- MP3 files with VBR setting will appear as VBR on the LCD monitor and its play time and recording time may differ from the displayed diagram.
- If a title of a track is too long, it may appear cropped on the LCD monitor.

MP3 Mode : Setting the MP3 Play Options

Deleting MP3 Files

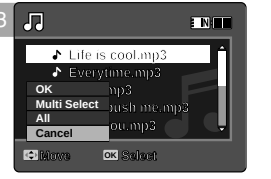
You can delete a selected MP3 file or group of MP3 files.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

2. Set the **MP3** mode by pressing the [MODE] button.
   - The MP3 playlist appears.
   - Move to desired MP3 file, using the [Joystick].

Deleting MP3 Files in MP3 playlist

3. Press the [DELETE] button on the LCD monitor in pause mode. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
   - <OK>: Deletes the selected MP3 file.
   - <Multi Select>: Multiple MP3 files can be selected using the [Joystick(OK)].
     < ✔ > indicator appears on the selected files. Press the [PLAY] button.
   - <All>: All MP3 files will be deleted.
   - <Cancel>: Cancels the deletion.



Deleting MP3 File in Full screen

3. Press the [PLAY] button or [Joystick(OK)].
   - The selected MP3 file is played.

4. Press the [DELETE] button on the LCD monitor in pause mode. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
   - <OK>: Deletes the selected MP3 file.
   - <Cancel>: Cancels the deletion.

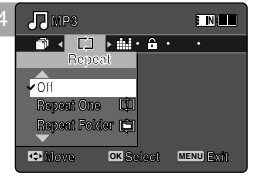
[Note]

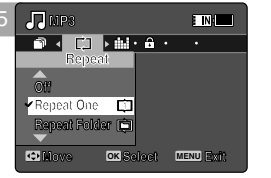
✤ You cannot access the menu during playback.

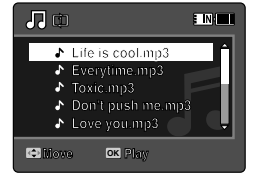
MP3 Mode : Setting the MP3 Play Options

Setting the Repeat Play

You can repeat a selected MP3 file or group of MP3 files, or play the MP3 files at random.







1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

2. Set the MP3 mode by pressing the [MODE] button.
- The MP3 playlist appears.

3. Press the [MENU] button in pause mode.
Move the [Joystick] left / right to select <Repeat>.

4. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
- **<Off>**: No repeat, plays each title once in the order from the selected MP3 file.
- **<Repeat One>**: One selected MP3 file will play repeatedly.
- **<Repeat Folder>**: All files in the folder will play repeatedly.
- **<Repeat All>**: All MP3 files will play through in order and start again from the beginning.
- **<Shuffle Folder>**: All files in the folder will play at random.
- **<Shuffle All>**:All MP3 files will play in random order once.

5. Press the [MENU] button to exit the menu.
- Move the MP3 file of the desired folder using the [Joystick].
- When the MP3 file plays back, the selected option will be applied.

[Notes]

✤ When the earphones, Audio/Video cable or *External Camera Module cable is connected to the Sports Camcorder, the built-in speaker will not operate.
(* Items apply to SC-X205L/X210L/X220L only.)

✤ You cannot access the menu during playback.

MP3 Mode : Setting the MP3 Play Options

Setting the Equalizer

You can choose an Equalizer mode for different types of music.

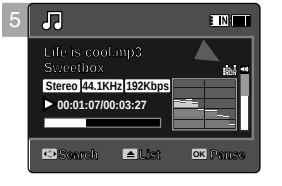
1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

2. Set the **MP3** mode by pressing the [MODE] button.
   - The MP3 playlist appears.

3. Press the [MENU] button in pause mode.
   Move the [Joystick] left / right to select <Equalizer>.

4. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
   - <Off> / <Pop> / <Classic> / <Jazz>

5. Press the [MENU] button to exit the menu.
   - The selected option is applied.



[Note]

✤ You cannot access the menu during playback.

MP3 Mode : Setting the MP3 Play Options

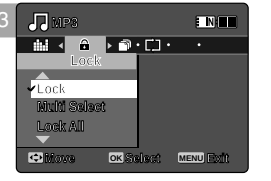
Locking MP3 Files

You can protect saved important MP3 files from accidental deletion. Protected files will not be deleted unless you release the protection or format the memory.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.
2. Set the **MP3** mode by pressing the [MODE] button.
   - The MP3 playlist appears.
   - Move to desired MP3 file, using the [Joystick].

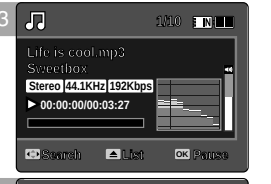
Locking MP3 Files in MP3 playlist

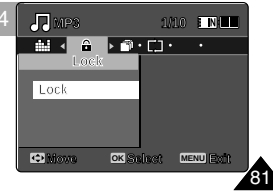
3. Press the [MENU] button in pause mode.
   Move the [Joystick] left / right to select <Lock>.
4. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
   - <Lock>: The selected MP3 file is locked.
   - <Multi Select>: Multiple MP3 files can be selected using the [Joystick(OK)].
     < 🔒 > indicator appears on the selected files.Press the [PLAY] button.
   - <Lock All>: All MP3 files are locked.
   - <Unlock All>: Unlocking all MP3 files.



Locking MP3 File in Full screen

3. Press the [PLAY]button or [Joystick(OK)]
   - The selected MP3 file is played.
4. Press the [MENU] button in pause mode.
   Move the [Joystick] left / right to select <Lock>.
5. Press the [Joystick(OK)].
   - The selected MP3 file is locked.





[Note]

✤ You cannot access the menu during playback.

MP3 Mode : Setting the MP3 Play Options

Copying MP3 Files

You can copy saved files from the internal memory to the memory card and vice versa.

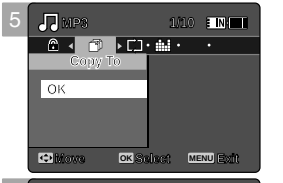
1. Insert the memory card into the memory card slot on the Sports Camcorder.
2. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.
3. Set the **MP3** mode by pressing the [MODE] button.
   - The MP3 playlist appears.
   - Move to desired MP3 file, using the [Joystick].

Copying MP3 Files in MP3 playlist

4. Press the [MENU] button in pause mode.
   Move the [Joystick] left / right to select <Copy To>.
5. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
   - <OK>: Copy the selected MP3 file.
   - <Multi Select>: Multiple MP3 files can be selected using the [Joystick(OK)].
     < ✔ > indicator appears on the selected files. Press the [PLAY] button.
   - <All>: Cancel copying MP3 file.

Copying MP3 File in Full screen

4. Press the [PLAY]button or [Joystick(OK)]
   - The selected MP3 file is played.
5. Press the [MENU] button in pause mode.
   Move the [Joystick] left / right to select <Copy To>.
6. Press the [Joystick (OK)].
   - Copy the selected MP3 file.



[Notes]

- The Sports Cam copies from the currently-used memory to another. If the internal memory is being used, it copies to a memory card.
- If the memory card is not inserted, you cannot perform the <Copy To> function.
- You cannot access the menu during playback.

4 Voice Recorder Mode

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Playing Voice Files 85
Setting the Voice Play Options 86
Deleting Voice Files 86
Setting the Play Mode 87
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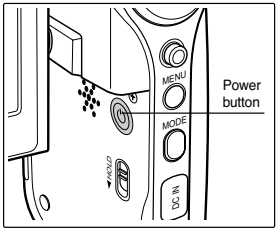
◆ Save important data / recordings separately on other media, to avoid accidental loss due to a system failure or other reasons.

How to set to Voice Recorder mode

1. Press the [POWER] button to turn on the Sports Camcorder.



2. Set the **Voice Recorder** mode by pressing the [MODE] button.

Voice Recorder Mode : Recording

Recording Voice Files

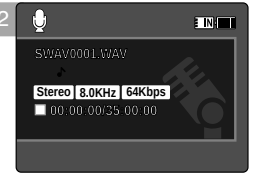
The built-in microphone allows users to record voices without any additional devices.

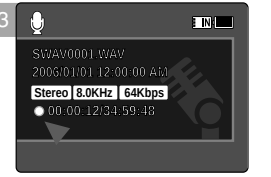
1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

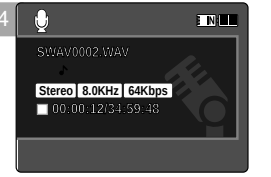
2. Set the **Voice Recorder** mode by pressing the [MODE] button.
   - The Voice Record screen appears.

3. Press the [Record / Stop] button to start recording.
   - <●> icon appears on the screen and starts recording.

4. To stop recording, press the [Record / Stop] button again.







[Notes]

✤ Recorded voice files are saved in a list automatically.

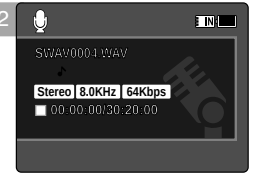
✤ During voice recording or in the Voice Record mode, the menu is not accessed.

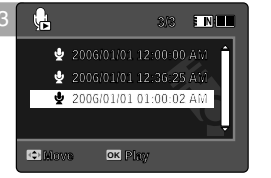
Voice Recorder Mode : Playing

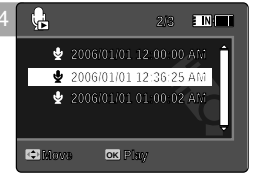
Playing Voice Files

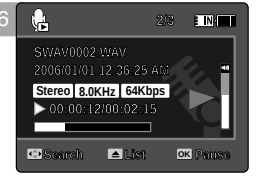
You can play back recorded voice files using the built-in speaker or the earphones.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.
2. Set the **Voice Recorder** mode by pressing the [MODE] button.
   - The Voice Record screen appears.
3. Press the [PLAY] button or [Joystick(OK)].
   - The Voice Playlist screen appears.
4. Select a voice file to play by moving the [Joystick] up/down, and then press the [Joystick(OK)].
5. The selected voice file is played back.
   - To pause playback, press the [Joystick(OK)].
   - To search backward / forward, move the [Joystick] left / right.
6. To adjust the volume, move the [Joystick] up / down.
   - Volume indicator appears and disappears after a few seconds.









[Notes]

✤ When the earphones, Audio/Video cable or *External Camera Module cable is connected to the Sports Camcorder, the built-in speaker will not operate.
(* Items apply to SC-X205L/X210L/X220L only.)

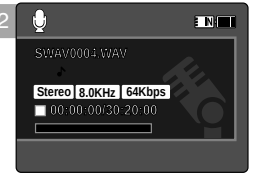
✤ You cannot access the menu during voice playback.

✤ While the menu screen is displayed, pressing the [Record / Stop] button will move to Voice Record mode.

Voice Recorder Mode : Setting the Voice Play Options

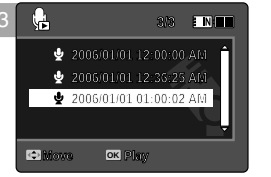
Deleting Voice Files

You can delete a selected voice file or group of voice files.

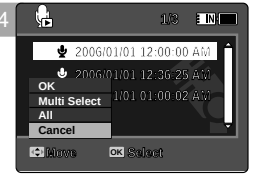


1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

2. Set the **Voice Recorder** mode by pressing the [MODE] button.
   - The Voice Record screen appears.



3. Press the [PLAY] button or [Joystick(OK)]
   - The Voice Playlist screen appears.
   - Move to desired voice file, using the [Joystick].



4. Press the [DELETE] button on the LCD monitor in pause mode. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
   - <OK>: Deletes the selected Voice file.
   - <Multi Select>: Multiple Voice files can be selected using the [Joystick(OK)].
     < ✔ > indicator appears on the selected files. Press the [PLAY] button.
   - <All>: All Voice files will be deleted.
   - <Cancel>: Cancels the deletion.

[Notes]

✤ You cannot access the menu during voice playback.

✤ While the menu screen is displayed, pressing the [Record / Stop] button will move to Voice Record mode.

Voice Recorder Mode : Setting the Voice Play Options

Setting the Play Mode

You can play all files continuously or play the selected file only. You can also set the repeat option.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

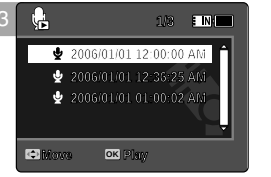
2. Set the **Voice Recorder** mode by pressing the [MODE] button.
   - The Voice Record screen appears.

3. Press the [PLAY] button or [Joystick(OK)]
   - Switches to the Voice Playlist screen.

4. Press the [MENU] button.
   Move the [Joystick] left / right to select <Play Mode>.

5. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
   - <Play One>: The selected voice file will be played.
   - <Play All>: All voice files will be played.
   - <Repeat One>: The selected voice file will be played repeatedly.
   - <Repeat All>: All voice files will be played repeatedly.

6. Press the [MENU] button to exit the menu.
   - When you play back, the selected option will be applied.
   - The selected icon is displayed on the repeat file.



[Notes]

✤ You cannot access the menu during voice playback.

✤ While the menu screen is displayed, pressing the [Record / Stop] button will move to Voice Record mode.

Voice Recorder Mode : Setting the Voice Play Options

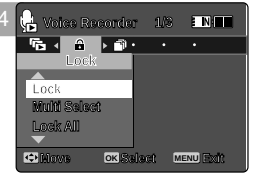
Locking Voice Files

You can protect saved important voice files from accidental erasure. Protected files will not be deleted unless you release the protection or format the memory.

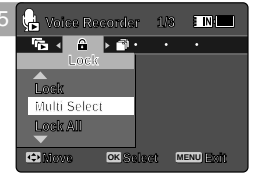
1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

2. Set the **Voice Recorder** mode by pressing the [MODE] button.
   - The Voice Record screen appears.

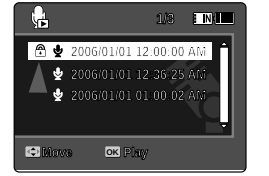
3. Press the [PLAY] button or [Joystick(OK)]
   - Switches to the Voice Playlist screen.
   - Move to desired voice file, using the Joystick.



4. Press the [MENU] button.
   Move the [Joystick] left / right to select <Lock>.



5. Move the [Joystick] up / down to select an option, and then press the [joystick(OK)].
   - <Lock>: The selected voice file is locked.
   - <Multi Select>: Multiple voice files can be selected using the [Joystick(OK)].
     < 🔒 > indicator appears on the selected files. Press [PLAY] button
   - <Lock All>: All voice files are locked.
   - <Unlock All>: Unlocks all voice files.



[Notes]

✤ The < 🔒 > icon is displayed on the locked file.
✤ You cannot access the menu during voice playback.
✤ While the menu screen is displayed, pressing the [Record / Stop] button will move to Voice Record mode.

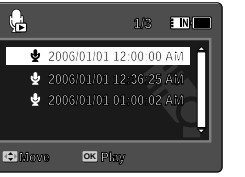
Voice Recorder Mode : Setting the Voice Play Options

Copying Voice Files

You can copy saved files from the internal memory to a memory card and vice-versa.

1. Insert the memory card into the memory card slot on the Sports Camcorder.
2. Press the [POWER] button to turn on the Sports Camcorder.
   - ◆ The Movie Record screen appears.
3. Set the **Voice Recorder** mode by pressing the [MODE] button.
   - ◆ The Voice Record screen appears.
4. Press the [PLAY] button or [Joystick(OK)].
   - ◆ Switches to the Voice Playlist screen.
   - ◆ Move to desired voice file, using the [Joystick].
5. Press the [MENU] button in pause mode.
   Move the [Joystick] left / right to select <Copy To>.
6. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
   - ◆ <OK>: Copy the selected Voice file.
   - ◆ <Multi Select>: Multiple Voice files can be selected using the [Joystick(OK)].
     < ✔ > indicator appears on the selected files. Press the [PLAY] button.
   - ◆ <All>: All voice files will be copied.

4



5

6

[Notes]

✤ The Sports Cam copies from the currently-used memory to another. If the internal memory was used, it copies to a memory card.

✤ If a memory card is not inserted, you cannot perform the <Copy To> function.

✤ You cannot access the menu during voice playback.

✤ While the menu screen is displayed, pressing the [Record / Stop] button will move to Voice Record mode.

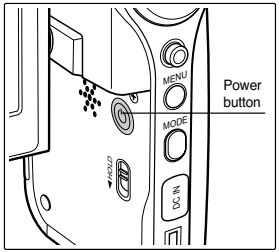
5 Using File Browser

Viewing Files or Folders.....91
Deleting Files or Folders.....92
Locking Files.....93
Copying Files or Folders.....94
Viewing File Information.....95

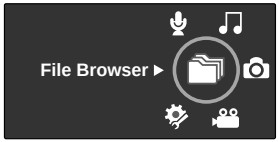
◆ Save important data / recordings separately on other media, to avoid accidental loss due to a system failure or other reasons.

How to set to File Browser mode

1. Press the [POWER] button to turn on the Sports Camcorder.



2. Set the **File Browser** mode by pressing the [MODE] button.



Using File Browser

Viewing Files or Folders

You can play back the stored file(AVI, JPEG, MP3, WAV) in Sports Camcorder.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - ◆ The Movie Record screen appears.

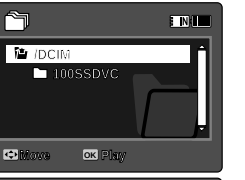
2. Set the **File Browser** mode by pressing the [MODE] button.
   - ◆ The File Browser screen appears.

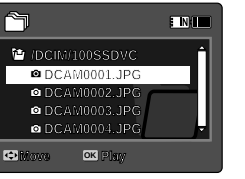
3. Select the desired folder or file by moving the [Joystick] up/down and then press the [Joystick(OK)].
   - ◆ Perform these steps repeatedly until the file you want to view appears.

4. The selected file will be played back.

2

3





4

[Notes]

✤ If you slide the [W/T] switch to W(WIDE) in play mode, return to the file list screen.

✤ If you move the [Joystick] left, the previous folder screen appears.

Using File Browser

Deleting Files or Folders

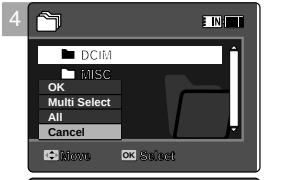
You can delete the file(AVI, JPEG, MP3, WAV) or folders you recorded.

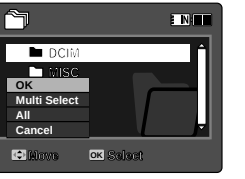
1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

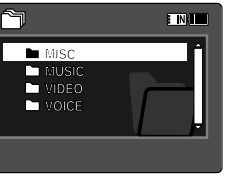
2. Set the **File Browser** mode by pressing the [MODE] button.
   - The File Browser screen appears.

3. Select the desired file or folder by using the [Joystick].
   - Move the [Joystick] up/down and press the [Joystick(OK)] repeatedly until the file or folder you want appears.

4. Press the [DELETE] button on the LCD monitor. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
   - <OK>: The selected file or folder are is deleted.
   - <Multi Select>: Multiple files or folders will be selected using the [Joystick(OK)].
     < ✔ > indicator appears on the selected files. Press the [PLAY] button.
   - <All>: All files or folders will be deleted.
   - <Cancel>: Cancels deleting files or folders.







[Notes]

- If you slide the [W/T] switch to W(WIDE) in play mode, it returns to the previous screen.
- Locked files or folders will not be deleted.
- If you move the [Joystick] left, the previous folder screen appears.

Using File Browser

Locking Files

You can lock the important files so they can not be deleted.

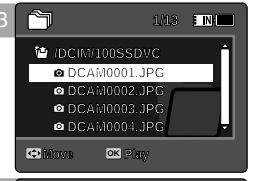
1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

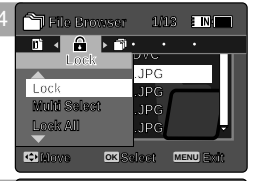
2. Set the **File Browser** mode by pressing the [MODE] button.
   - The File Browser screen appears.

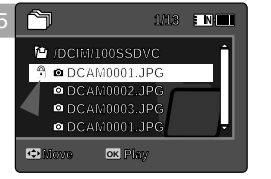
3. Select the desired file or folder by using the [Joystick].
   - Move the [Joystick] up/down and press the [Joystick(OK)] repeatedly until the file you want appears.

4. Press the [MENU] button.
   Move the [Joystick] left / right to select <Lock>.

5. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
   - <Lock>: The selected file is locked.
   - <Multi Select>: Multiple files can be selected using the [Joystick(OK)].
     < 🔒 > indicator appears on the selected files. Press the [PLAY] button.
   - <Lock All>: All files are locked.
   - <Unlock All>: Unlocking all files.







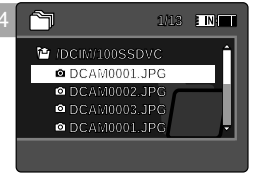
[Notes]
- ✤ You can't lock folders.
- ✤ The < 🔒 > icon is displayed when the file is locked.
- ✤ If you slide the [W/T] switch to W(WIDE) in play mode, return to the file list screen.
- ✤ If you move the [Joystick] left, the previous folder screen appears.

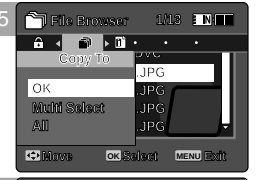
Using File Browser

Copying Files or Folders

You can copy the file or folder to the internal or external memory.

1. Insert the memory card into the memory card slot on the Sports Camcorder.
2. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.
3. Set the **File Browser** mode by pressing the [MODE] button.
   - The File Browser screen appears.
4. Select the desired file or folder by using the [Joystick].
   - Move the [Joystick] up/down and press the [Joystick(OK)] repeatedly until the file or folder you want appears.
5. Press the [MENU] button.
   Move the [Joystick] left / right to select <Copy To>.
6. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
   - <OK>: Copy the selected file or folder.
   - <Multi Select>: Multiple files or folders can be selected using the [Joystick(OK)].
     < ✔ > indicator appears on the selected files or folders.
     Press the [PLAY] button.
   - <All>: All files or folders will be copied.





[Notes]

- ✤ The Sports Cam copies from the currently-used memory to another. If the internal memory was used, it copies to a memory card.
- ✤ If a memory card is not inserted, you cannot perform the <Copy To> function.
- ✤ If you slide the [W/T] switch to W(WIDE) in play mode, the Cam return to the file list screen.
- ✤ If you move the [Joystick] left, the previous folder screen appears.

Using File Browser

Viewing File Information

You can see the file name, format, size and date.

1. Press the [POWER] button to turn on the Sports Camcorder.
   - The Movie Record screen appears.

2. Set the **File Browser** mode by pressing the [MODE] button.
   - The File Browser screen appears.

3. Select the desired file list by using the [Joystick].
   Move the [Joystick] up or down to want to view file information.
   - Move the [Joystick] up/down and press the [Joystick(OK)] repeatedly until the file list you want appears.

4. Press the [MENU] button.
   Move the [Joystick] left / right to select <File Info.>.

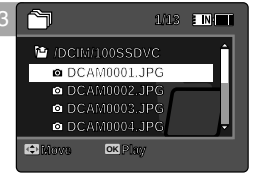
5. Press the [Joystick(OK)] to view the file infomation.
   - The screen with file name, size, date, locked state appears.

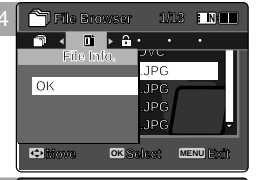
6. Press the [Joystick(OK)] to finish viewing file information.

[Notes]

✤ You cannot view folder information. You can only view file information.

✤ If you move the [Joystick] left, the previous folder screen appears.





6 Setting the Sports Camcorder

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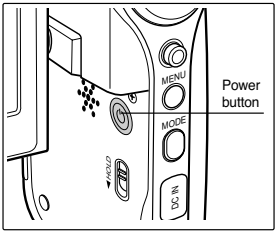
◆ Save important data / recordings separately on other media, to avoid accidental loss due to a system failure or other reasons.

How to set to System Settings mode

1. Press the [POWER] button to turn on the Sports Camcorder.



2. Set the **System Settings** mode by pressing the [MODE] button.

Setting the Sports Camcorder : Setting Memory

Selecting the Storage Type

You can set the storage to the internal memory or memory card (not supplied).

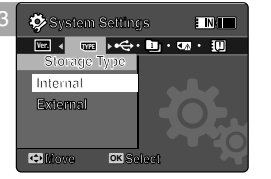
1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

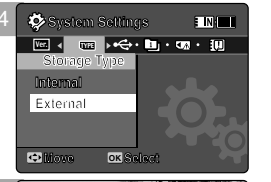
2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Storage Type>.

4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
- **<Internal>**: Movie, photo, music and voice files are stored in the internal memory.
- **<External>**: Movie, photo, music and voice files are stored in the external memory (SD/MMC).

5. After you finish setting, move to the desired mode by pressing the [MODE] button.





[Notes]
- ✤ If you insert a memory card when the Sports Camcorder is on, the “pop-up message” will prompt you automatically to select the storage type .
- ✤ If there is no memory card inserted, only the <internal> option will be available.
- ✤ System requires a small portion of memory space, actual storage capacity may differ from the printed memory capacity.
- ✤ The maximum recording time and image capacity is subject to change depending on the media used. ➥page 31, 32

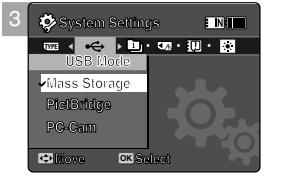
Setting the Sports Camcorder : Setting USB Mode

Setting USB Mode

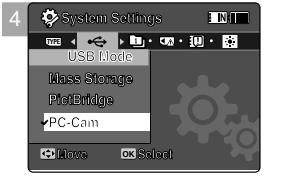
Connect your Sports Camcorder to your Computer via USB.

1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.



3. Move the [Joystick] left / right to select <USB Mode>.



4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

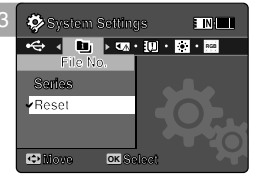
Mass Storage	Transferring files from the Sports Camcorder to your computer ➥page 115
PictBridge	By connecting the Sports Camcorder to printers with PictBridge support (sold separately), you can send images from the internal memory or external memory (SD/MMC) directly to the printer with a few simple operations. ➥page 116
PC-Cam	You can use the Sports Camcorder as a PC camera for video chatting, video conference and other PC camera applications. ➥page 117

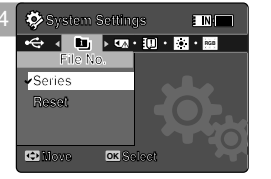
[Note]
✤ Mass storage operates as a basic mode when connecting USB.

Setting the Sports Camcorder : Setting Memory

Setting the File No. Function

You can set the file numbers so that they reset each time the memory card is formatted, or so that they count up continuously.





1. Press the [POWER] button to turn on the Sports Camcorder.

- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.

- The System Settings screen appears.

3. Move the [Joystick] left / right to select <File No.>.

4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

- **<Series>**: Numbering is continuous between the memory cards, so that the first file number assigned on a new memory card is 1 more than the last file number assigned on the previous memory card.
- **<Reset>**: When the storage memory is formatted, the file number goes back to its default value (100-0001).

5. After you finish, move to the desired mode by pressing the [MODE] button.

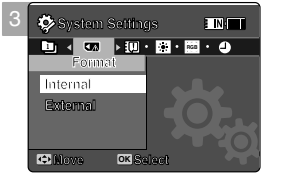
[Note]

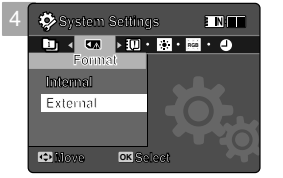
✤ When you set <File No.> to <Series>, each file is assigned with a different number so as to avoid duplicating file names. It is convenient when you want to manage your files on a PC.

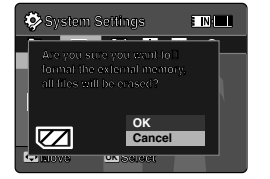
Setting the Sports Camcorder : Setting Memory

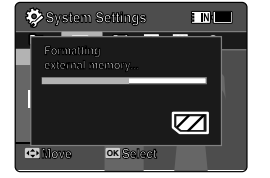
Formatting the Memory

You can format the internal memory or the memory card to erase all files.









1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Format>.

4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
- **<Internal>:** Format the internal memory.
- **<External>:** Format the external memory.
  When the [Joystick(OK)] is pressed, the pop-up message appears.
  Select <OK> or <Cancel> by moving the [Joystick] up / down and then press the [Joystick(OK)].

5. After you finish setting, move to the desired mode by pressing the [MODE] button.

[Warning]
- ✤ Previous information can not be restored after formatting.

[Notes]
- ✤ There is no guarantee on the operation of a memory card which has not been formatted on the Sports Camcorder. Make sure to format the memory card on the Sports Camcorder before using.
- ✤ If the memory card is not inserted, <External> option is not displayed.

Setting the Sports Camcorder : Setting Memory

Viewing Memory Space

You can check used memory space and total memory space of the Sports Camcorder.

1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Memory Space>.

4. The used memory space and total memory space are displayed.

5. After you viewing memory space, move to the desired mode by pressing the [MODE] button.

Memory Space

① Used memory capacity indicator
② Total memory capacity indicator

[Notes]
- ✤ System requires a small portion of memory space, actual storage capacity may differ from the printed memory capacity.
- ✤ If the memory card is not inserted, <External> option is not displayed
- ✤ The OSD indicators of this manual are based on the model SC-X210(L).

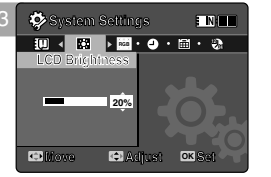
Setting the Sports Camcorder : Adjusting the LCD monitor

Adjusting the LCD Brightness

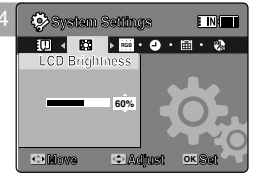
You can adjust the brightness of the LCD monitor to compensate for ambient lighting conditions.

1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.



3. Move the [Joystick] left / right to select <LCD Brightness>.



4. Move the [Joystick] up / down to adjust the brightness, and then press the [Joystick(OK)].
- Moving the [Joystick] up will brighten the screen whereas moving it down will darken the screen.
- Brightness range: You can adjust the LCD Brightness from 0% to 100%.

5. After you finish setting, move to the desired mode by pressing the [MODE] button.

[Notes]
- ✤ A Brighter LCD screen setting consumes more battery power.
- ✤ Adjust the LCD brightness when the ambient lighting is too bright and the monitor is hard to see.
- ✤ LCD Brightness does not affect the brightness of images to be stored.

Setting the Sports Camcorder : Adjusting the LCD monitor

Adjusting the LCD Color

You can adjust the color of the LCD monitor depending on the situation.

1. Press the [POWER] button to turn on the Sports Camcorder.

◆ The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.

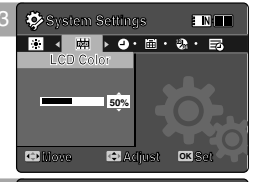
◆ The System Settings screen appears.

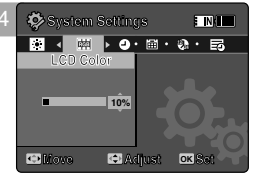
3. Move the [Joystick] left / right to select <LCD Color>.

4. Move the [Joystick] up / down to adjust the LCD color, and then press the [Joystick(OK)].

◆ You can adjust the LCD Color from 0% to 100%.

5. After you finish setting, move to the desired mode by pressing the [MODE] button.





Setting the Sports Camcorder : Adjusting Date/Time

Setting Date&Time

You can set the date/time using this menu.

1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.

2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.

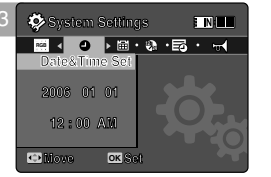
3. **Move the [Joystick] left / right to select <Date&Time Set> and then press the [Joystick(OK)].**

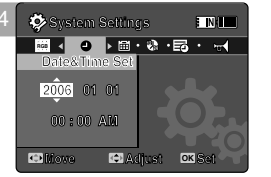
4. **Set the desired value by moving the [Joystick] up / down.**

5. **Move to the next item by moving the [Joystick] left / right, and then set values by moving the [Joystick] up / down.**
   - Items are displayed in the order of the date format.
   - By default, it appears in the order of Year, Month, Date, Hour, Minute and AM/PM.

6. **After setting the last item, press the [Joystick(OK)] to finish the setting.**

7. **After you finish setting, move to the desired mode by pressing the [MODE] button.**





[Notes]

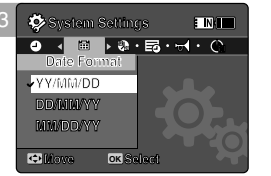
✤ See page 107 to set the Date/Time to display on the LCD.

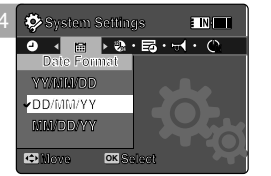
✤ You can set the year up to 2037.

Setting the Sports Camcorder : Adjusting Date/Time

Setting Date Format

You can select the date format to display.





1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.

2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.

3. **Move the [Joystick] left / right to select <Date Format>.**

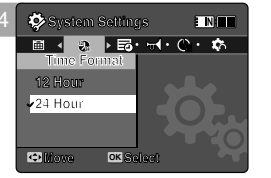
4. **Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].**
   - **<YY/MM/DD>**: The date is displayed in the order of Year / Month / Date.
   - **<DD/MM/YY>**: The date is displayed in the order of Date / Month / Year.
   - **<MM/DD/YY>**: The date is displayed in the order of Month / Date / Year.

5. **After you finish setting, move to the desired mode by pressing the [MODE] button.**

Setting the Sports Camcorder : Adjusting Date/Time

Setting Time Format

You can select the time format to display.



1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.

2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.

3. **Move the [Joystick] left / right to select <Time Format>.**

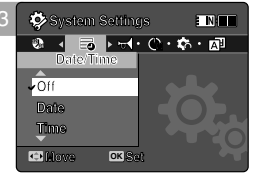
4. **Move the [Joystick] up / down to select an option, and then press the [joystick(OK)].**
   - **<12 Hour>:** The time is displayed as the unit of 12 hours.
   - **<24 Hour>:** The time is displayed as the unit of 24 hours.

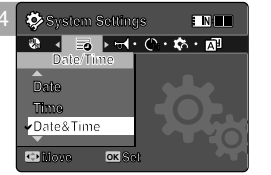
5. **After you finish setting, move to the desired mode by pressing the [MODE] button.**

Setting the Sports Camcorder : Adjusting Date/Time

Setting Date/Time Display

You can set to display date and time on the LCD monitor.





1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.

2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.

3. **Move the [Joystick] left / right to select <Date/Time>.**

4. **Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].**
   - **<Off>**: Date and Time are not displayed.
   - **<Date>**: The date is displayed.
   - **<Time>**: The time is displayed.
   - **<Date&Time>**: The date and time are displayed.

5. **After you finish setting, move to the desired mode by pressing the [MODE] button.**
   - The selected Date/Time is displayed in Movie Record/Play or Photo Capture mode.

Setting the Sports Camcorder : Setting the System Settings

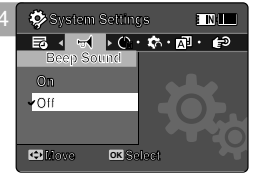
Setting the Beep Sound

You can set the beep sound to on/off. When on, a beep will sound every time a button is pressed.

1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Beep Sound>.



4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
- **<On>**: Turn the beep sound on.
- **<Off>**: Turn the beep sound off.

5. After you finish setting, move to the desired mode by pressing the [MODE] button.

[Note]

✤ When the earphones, Audio / Video cable or * External Camera Module is connected to the Sports Camcorder, the <Beep Sound> function will not operate.
(* Items apply to the SC-X205L/X210L/X220L models only.)

Setting the Sports Camcorder : Setting the System Settings

Setting Start-up Mode

You can select the starting mode displayed when you turn the Sports Camcorder on.

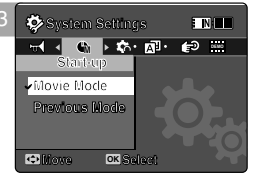
1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

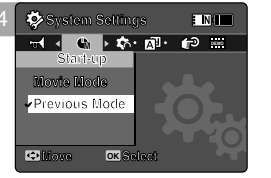
2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Start-up>.

4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
- **Movie Mode:** The Sports Camcorder starts up in the Movie Mode.
- **Previous Mode:** The Sports Camcorder starts up in the mode you used last.

5. After you finish setting, move to the desired mode by pressing the [MODE] button.





[Note]
- Make sure that the start-up mode is set to the selected mode when turning on the Sports Camcorder again.

Setting the Sports Camcorder : Setting the System Settings

Resetting the Sports Camcorder

You can reset the Sports Camcorder to the default (factory) settings.

1. Press the [POWER] button to turn on the Sports Camcorder.

◆ The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.

◆ The System Settings screen appears.

3. Move the [Joystick] left / right to select <Reset> and then press the [Joystick(OK)].

◆ The Sports Camcorder will be initialized to the default settings.

[Warning]

✤ If you reset the Sports Camcorder, all functions you set are re-initialized to the default (factory) settings.

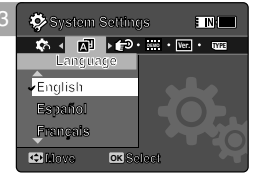
[Note]

✤ After resetting the Sports Camcorder, set <Date&Time Set>. ➥page 104

Setting the Sports Camcorder : Setting the System Settings

Selecting Language

You can select the desired language of the Sports Camcorder.



1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.

2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.

3. **Move the [Joystick] left / right to select <Language>.**

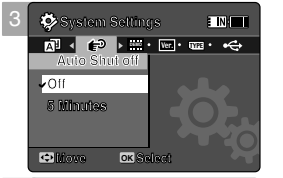
4. **Move the [Joystick] up / down to select the desired language, and then press the [Joystick(OK)].**
   - English / Español / Français / Português / Deutsch / Italiano / Nederlands / Polski / Русский / 한국어 / 中文 / Iran / Arab / Magyar / ไทย / Українська / Svenska

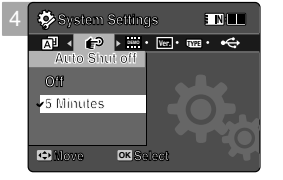
5. **After you finish setting, move to the desired mode by pressing the [MODE] button.**

Setting the Sports Camcorder : Setting the System Settings

Setting the Auto Shut off

To save battery power, you can set the <Auto Shut off> function which turns off the Sports Camcorder if there is no operation for a certain period of time.





1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.

2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.

3. **Move the [Joystick] left / right to select <Auto Shut off>.**

4. **Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].**
   - **<Off>**: Cancels the <Auto Shut off> function.
   - **<5 Minutes>**: Automatically turns off after 5 minutes.

5. **After you finish setting, move to the desired mode by pressing the [MODE] button.**

[Notes]

- The <Auto Shut off> will not function when you connect the AC Power Adapter to the Sports Camcorder. The <Auto Shut off> functions when the Battery Pack is the only power source.
- <Auto Shut off> will only function when you set this function in System Settings mode.
- Press the [POWER] button to revive the Sports Camcorder.

Setting the Sports Camcorder : Setting the System Settings

Setting the Demonstration Function

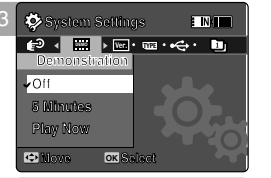
The Demonstration function will allow you to view all the functions that the Sports Camcorder supports.

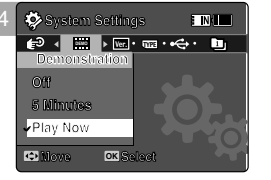
1. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

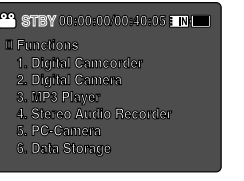
2. Set the System Settings mode by pressing the [MODE] button.
- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Demonstration>.

4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
- **<Off>:** Cancels the Demonstration function.
- **<5 Minutes>:** Starts the Demonstration function in 5 minutes.
- **<Play Now>:** Starts the Demonstration function now.





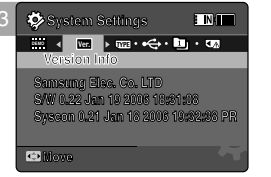


[Note]
✤ If you set the Demonstration function, it operates only in Video Record mode.

Setting the Sports Camcorder : Setting the System Settings

Viewing Version Information

You can see the firmware version information.



1. Press the [POWER] button to turn on the Sports Camcorder.

- The Movie Record screen appears.

2. Set the System Settings mode by pressing the [MODE] button.

- The System Settings screen appears.

3. Move the [Joystick] left / right to select <Version Info>.

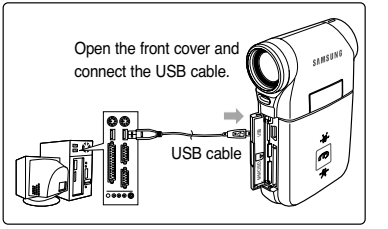
- The firmware version of the Sports Camcorder is displayed.

4. After you view the version information, move to the desired mode by pressing the [MODE] button.

Setting the Sports Camcorder : Using USB Mode

Transferring files to a computer

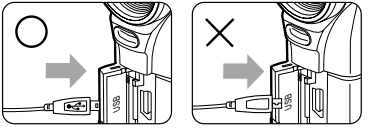
You can use transfer photo and video files to your PC.



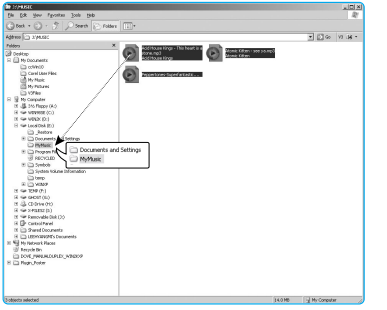
1. Turn on your PC.

2. Press the [POWER] button to turn on the Sports Camcorder.
- The Movie Record screen appears.

3. Connect the Sports Camcorder to your PC with the USB cable.
- Mass storage for transferring files runs as the default mode when connecting with the USB.



4. Copy the desired file from the Sports Camcorder to your PC.



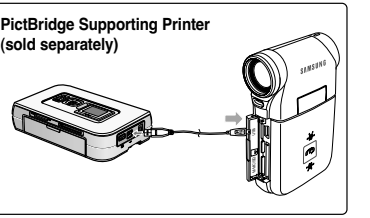
5. When finished, disconnect the USB cable.

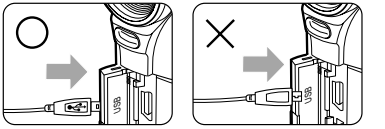
[Notes]
- ✤ Disconnecting the USB cable while the data transfer will stop the data transfer and might damage the data stored.
- ✤ Multiple USB devices connected to a PC or using USB hubs may cause communication / installation errors with the Sports Camcorder.
- ✤ Mass storage runs as the default mode when connecting with the USB. Reset USB mode to use the Pict-bridge function or PC-Cam function. ➥page 98

Setting the Sports Camcorder : Using USB Mode

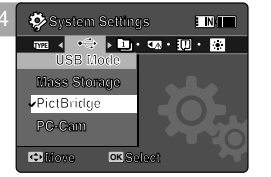
Printing with PictBridge

With the provided USB cable and a PictBridge-supporting printer, you can print your photo images directly without connecting to a PC.





1. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.
2. **Set the System Settings mode by pressing the [MODE] button.**
   - The System Settings screen appears.
3. **Move the [Joystick] left / right to select <USB Mode>.**
4. **Move the [Joystick] up / down to select <PictBridge> and then press the [Joystick(OK)].**
5. **Connect the Sports Camcorder and the PictBridge supporting printer with a USB cable.**
6. **Move the [Joystick] left/right to select the file you want to print.**
7. **Move the [Joystick] up/down to set the number of copies.**
   - Range of possibilities: 1 ~ 30
8. **Press the [Joystick(OK)] to begin printing.**
9. **When finished, disconnect the USB cable.**



[Warning]

✤ This function works only with printers that support PictBridge.

[Notes]

✤ For printing information, refer to the User's manual of the printer.

✤ Depending on the printer, printing failure may occur. In this case, download JPEG files directly to the PC and print them.

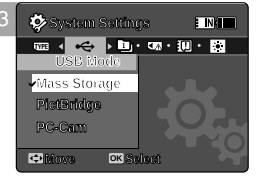
✤ Depending on the printer, date and time option may not be supported. In this case, date and time menu will not be displayed.

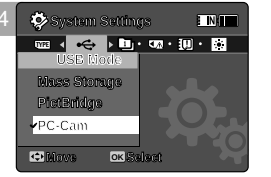
✤ Mass storage runs as the default mode when connecting with the USB. Reset USB mode to use the Pict-bridge function or PC-Cam function.

Setting the Sports Camcorder : Using USB Mode

Using the PC Cam Function

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

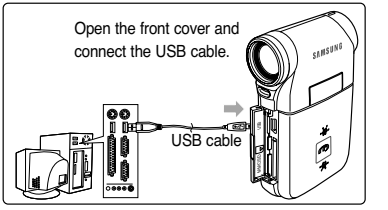


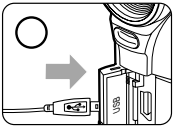


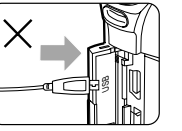
Before your start!

- ◆ For PC Cam use, it is required to install the DV Driver.➥page 124

1. Press the [POWER] button to turn on the Sports Camcorder.
   - ◆ The Movie Record screen appears.
2. Set the **System Settings** mode by pressing the [MODE] button.
   - ◆ The System Settings screen appears.
3. Move the [Joystick] left / right to select <USB Mode>.
4. Move the [Joystick] up / down to select <PC-Cam> and then press the [Joystick(OK)].
5. Turn on your PC.
6. Connect the Sports Camcorder to your PC with the USB cable.
7. The Sports Camcorder can be used as a PC Cam for programs such as Windows Messenger.
   - ◆ Various applications take advantage of the PC Cam function. Refer to respective product documentation for further details.
8. When finished, disconnect the USB cable.







[Notes]

- ✤ You must install the DV Driver. ➥page 124
- ✤ When the USB Port connection changed, it may require DV Driver re-installation. ➥page 124
- ✤ It is recommended to use an AC Power Adapter during data transfer to avoid unintended power outages.
- ✤ Microsoft Windows 98 SE or later operating systems support the PC Cam function.
- ✤ Mass storage runs as the default mode when connecting with the USB. Reset USB mode to use the Pict-bridge function or PC-Cam function.

6 Using the External Camera Module (SC-X205L/X210L/X220L only)

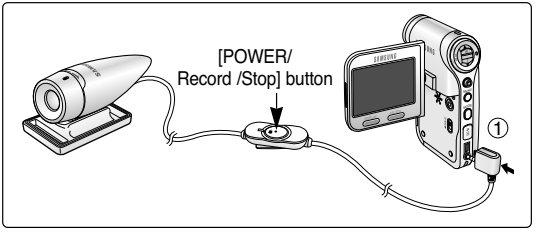
Recording the External Camera Module 119
Recording Video using the External Camera Module.....119
Wearing the External Camera Module.....120
Mounting the External Camera Module on Rubber Mount....120
Using the Long Mount Bands 121

◆ Save important data / recordings separately on other media, to avoid accidental loss due to a system failure or other reasons.

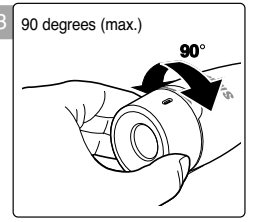
Using the External Camera Module (SC-X205L/X210L/X220L only) :
Recording with the External Camera Module

Recording Video using the External Camera Module

Your Sports Camcorder offers the ability to record those thrilling moments. Whether you're snow boarding or skiing you can record the moments with the External Camera Module and accessories.



1. **Connect the External Camera Module cable to the multi jack of Sports Camcorder.**
   - ◆ You may fix the External Camera Module using a Tripod (not supplied), Rubber Mount, or Mounting Band.
2. **Press the [POWER/Record /Stop] button of External Camera Module for more than 2 seconds.**
   - ◆ The power of the Sports Camcorder and the External Camera Module are turned on.
   - ◆ If you press the [POWER] button of the Sports Camcorder, only the Sports Camcorder is turned on.
3. **Turn the Picture Rotator to the desired direction.**
   - ◆ The Picture Rotator turns 90 degrees left or right to select the desired picture angle.
4. **Press the [POWER/Record /Stop] button of the External Camera Module to start recording.**
   - ◆ LED lamp lights in red.
   - ◆ Press the [Record /Stop]button of the Sports Camcorder to start recording.
5. **Press the [POWER/Record /Stop] button of the External Camera Module to stop recording.**
   - ◆ Recording stops and the Sports Camcorder is ready again.
6. **After recording, to prevent battery consumption, press the [POWER/Record /Stop] button of the External Camera Module more than 2 seconds to turn off.**
   - ◆ The power of the Sports Camcorder and the External Camera Module are turned off.
   - ◆ If you press the [POWER] button of the Sports Camcorder, only the Sports Camcorder is turned off.



[Notes]

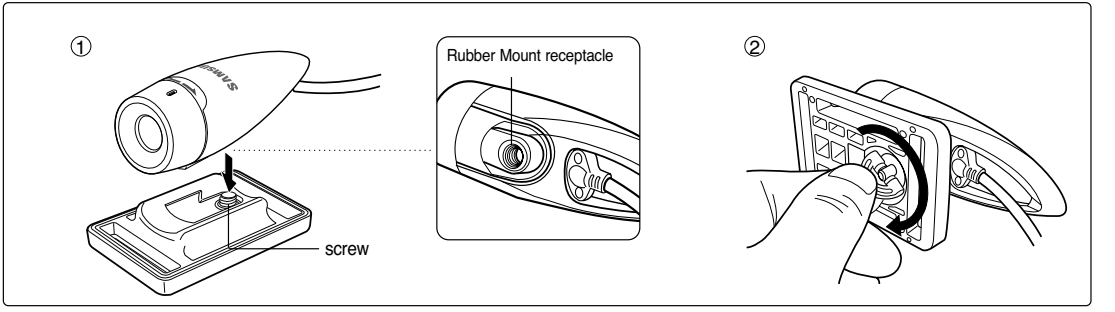
✤ The External Camera Module is available for recording movie only.

✤ You can use the [POWER/Record /Stop] button of the External Camera Module to power on/off and to start/stop recording simultaneously.

✤ Multi jack is used as a Earphones jack, AV Input/Output jack and External Camera Module jack.

Using the External Camera Module (SC-X205L/X210L/X220L only) : Wearing the External Camera Module

Mounting the External Camera Module on Rubber Mount



1. **Set the Rubber Mount receptacle of the External Camera Module to the screw of Rubber Mount.**

2. **Turn the Rubber Mount's screw to the right to fasten.**

[Note]

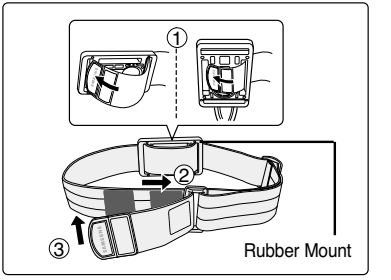
✤ Dropping the External Camera Module or bumping it to other objects may cause device failure. When using the device, you must attach it to the rubber mount, and be careful not to drop or strike it.

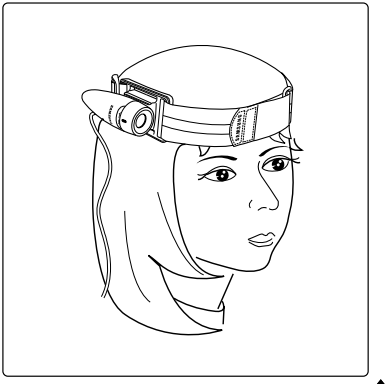
Using the External Camera Module (SC-X205L/X210L/X220L only) : Wearing the External Camera Module

Using the Long Mount Bands

While the Sports Camcorder is inside your carrying case or backpack, you can attach the External Camera Module mounted on the Rubber Mount with help of the Long Mount Bands.

1. **Run the strap of Long Mount Band through both of the slots on the rubber mount as illustrated.**
   - ◆ You can use both the short part and long part of Rubber Mount as slots.
2. **Run the strap through the buckle to adjust the tightness.**
3. **Fasten the strap.**





[Notes]

✤ Dropping the External Camera Module or bumping it to other objects may cause device failure. When using the device, you must attach it to the rubber mount, and be careful not to drop or strike it.

✤ A direct contact of the Rubber Mount with your skin for a long period of time may cause skin irritation or allergy. Avoid long term contact.

7 Miscellaneous Information

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◆ Save important data / recordings separately on other media, to avoid accidental loss due to a system failure or other reasons.

Miscellaneous Information : USB Interface Environment

USB connection to a computer

High Speed USB is not guaranteed if the supplied driver is not installed on an OS other than Microsoft Windows or Apple's Mac OS X.

- Windows 98SE/ME: Full Speed USB
- Windows 2000: Service Pack 4 or higher - High Speed USB
- Windows XP: Service Pack 1 or higher - High Speed USB
- Mac OS X: 10.3 or higher - High Speed USB

System Environment

	Windows Environment		Macintosh Environment	
	Minimum	Recommended	Minimum	Recommended
CPU	Pentium III, 600MHz	Pentium 4, 2GHz	G3 500MHz	G4 Processor
OS	Windows 98SE/ME	Windows 2000/XP	Mac OS 10.2	Mac OS 10.3
Memory	128MB	512MB or above	128MB	512MB or above
Free space on the hard disk	200MB(For applications only. Apart from this, 1GB or more free space	2GB or above	200MB(For applications only. Apart from this, 1GB or more free space	2GB or above
Display Resolution	800x600 dots 16-bit color	1024x768 dots 24-bit color	800x600 dots 16-bit color	1024x768 dots 24-bit color
USB	USB 1.1	USB 2.0 High Speed	USB 1.1	USB 2.0 High Speed

[Notes]

- Not all PCs configured with the above environment are guaranteed to operate properly.
- USB connection using an external USB hub or an additional USB daughterboard is not guaranteed.
- If your OS is Windows 2000/XP, log in as the [Administrator(administrator of the PC)] (or a user with the equivalent privileges) to install the OS.
- If the capacity of PC is low, the movie file may not play normally or will often stop.
- If the capacity of PC is low, it may take a long time to edit the video file.
- Intel® Pentium III™ or Pentium 4™ is a trademark of the Intel Corporation.
- Mac, Macintosh and Mac OS are trademarks of Apple Computer, Inc.
- Windows® is a registered trademark of the Microsoft® Corporation.
- All other brands and names are property of their respective owners.

Miscellaneous Information : Installing Software

Installing DV Media Pro 1.0

You need to install DV Media Pro 1.0 to play back recorded movie files or the transferred data from Sports Camcorder with the USB cable on your PC.

Before your start!

- ◆ Turn on your PC. Exit all other applications running.
- ◆ Insert the provided CD into the CD-ROM drive.
  The setup screen appears automatically soon after the CD was inserted. If the setup screen does not appear, click on “Start” on the bottom left corner and select “Run” to display a dialog. Type “D:\autorun.exe” and then press ENTER, if your CD-ROM drive is mapped to “D:Drive”.

Installing Driver - DV Driver and DirectX 9.0

◆ DV Driver is a software driver that is required to support establishing connection to a PC.
(If it is not installed, some functions will not be supported.)

1. Click on “DV Driver” on the Setup screen.

◆ Driver software required is installed automatically.
Following drivers will be installed:
- USB Removable disk driver (Windows 98 SE only)
- USB PC-CAMERA driver

2. Click on <Confirm> to finish driver installation.

◆ Windows 98 SE users need to restart the PC.

3. If the "DirectX 9.0" is not installed, it is installed automatically after setting "DV Driver".

◆ After installing DirectX 9.0, PC needs to be restarted.
◆ If DirectX 9.0 is installed already, there is no need to restart the PC.

Application Installation - Video Codec

◆ **Click on “Video Codec” on the Setup screen.**
Video Codec is required to play movie files recorded by Sports Camcorder on a PC.

[Note]

✤ If a message saying “Digital Signature not found” or something similar appears, ignore the message and continue with the installation.

Miscellaneous Information : Installing Software

Application Installation – Photo Express

1. Click "Photo Express" on the Setup screen.

- It is a photo editing tool that allows users to edit images.

Application Installation – Quick Time

1. Click "Quick Time" on the Setup screen.

- QuickTime is Apple's technology for handling movie, sound, animation, graphics, text, music, and even 360-degree virtual reality (VR) scenes.

Ulead Video Studio

Setting up Ulead Video Studio

After inserting the CD, the setup screen displays automatically. Follow the instruction to start installation.

It is a video editing tool that allows users to edit movie files.

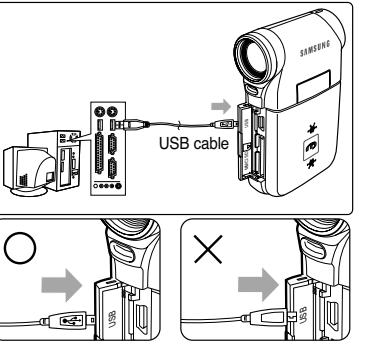
[Notes]

- For photo editing, use Photo Express.
- For movie playback on a PC, install software in this order : DV Driver - DirectX 9.0 - Video Codec
- For movie editing, use the Ulead Video Studio.
- For PC Cam use, it is required to install the DV Driver installation is required.
- You have to install "DV Driver", "Video Codec" and "DirectX 9.0" to run DV Media Pro 1.0 properly.
- If a message saying "Digital Signature not found" or something similar appears, ignore the message and continue with the installation.

Miscellaneous Information : Connecting To Other Devices

Connecting to a PC using USB Cable

Connect to a PC with the provided USB cable. You can view your files on your PC.



<Open the front cover and connect the USB cable.>

Connecting to a PC – Playing Files

1. **Press the [POWER] button to turn on the Sports Camcorder.**
2. **Connect the Sports Camcorder to the PC with the provided USB cable as shown in the diagram.**
3. **Copy the file to your PC.**
   - We recommend copying the files onto your PC for better viewing.
4. **Double-click on the copied file name.**
   It starts to play back.

Disconnecting from a PC

1. **Click on the "Safely remove hardware" tray icon on the bottom right side of the desktop.**
   Select the device and click on the "Stop" button.
2. **When the message saying that it is safe to remove the hardware appears, unplug the cable from the PC.**

[Warning]

- When data communication is disrupted due to static electricity, magnetic field or other reason, restart the program or try to disconnect / connect the communication cable (USB Cable) again.

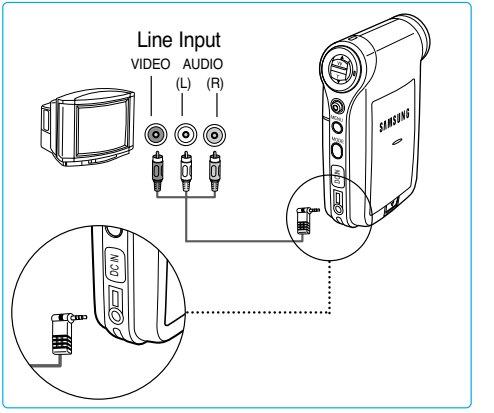
[Notes]

- Multiple USB devices connected to a PC or using USB hubs may cause communication / installation errors with the Sports Camcorder.
- Refer to page 123 for PC recommendations on USB use. Some PCs meeting the requirements may not support proper USB operation due to various reasons. Please refer to the product documentation of the PC for further details.
- If you disconnect the USB cable from the PC or the Sports Camcorder during the data transfer, the data transfer will stop and the data may be damaged.
- The Sports Camcorder may operate abnormally in the recommended system environment depending on your PC. For example, the movie file may play abnormally.

Miscellaneous Information : Connecting To Other Devices

Connecting to a TV monitor

You can connect your Sports Camcorder directly to a TV set. Set the appropriate video input when viewing Sports Cam playback on the TV.



1. **Connect the provided Audio/Video cable to the [Multi jack] of the Sports Camcorder.**

2. **Connect the other end of the cable to the TV set by matching the colors of the terminals.**

3. **Turn on the TV and set the TV's <Source> to the external input the Sports Camcorder is connected to.**
   - <Source> may be represented as <Line In>, <Input>, <A/V Input>, etc. depending on the manufacturer.

4. **Press the [POWER] button to turn on the Sports Camcorder.**
   - Movie Record mode is displayed on the TV screen.

5. **Press the [PLAY] button or [Joystick(OK)] to switch to Movie Play mode.**

6. **Move the [Joystick] left / right to select a movie and then press the [Joystick(OK)].**
   - It begins playback.
   - To pause playback, press the [Joystick(OK)].

[Notes]

✤ You can play back photo files as well as movie files.

✤ When you connect your Sports Camcorder to a TV, some indicators may not partly appear.

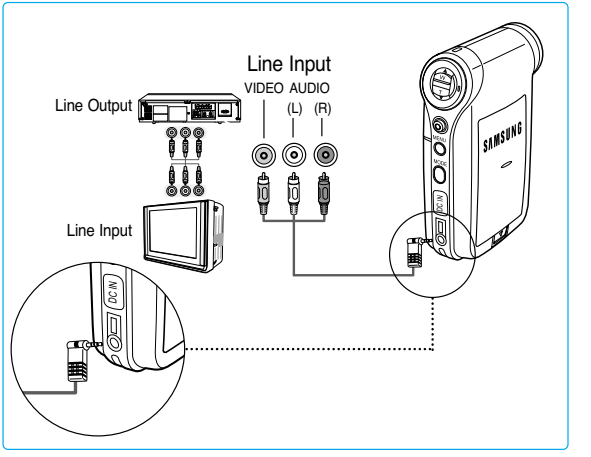
✤ If you wish to input/output an image from another device to the Sports Camcorder, you must first set <Line In/out> in movie mode. ➥page 51

Miscellaneous Information : Connecting To Other Devices

Connecting to a VCR / DVD Recorder

You can connect your Sports Camcorder to a TV set through a VCR/DVD Recorder.

1. **Connect the provided Audio/Video Cable to the [Multi jack] of the Sports Camcorder.**
2. **Connect the other end of the cable to the VCR/DVD Recorder by matching the colors of the terminals.**
3. **Connect the Audio/Video Cable from TV Input to Video Output of the VCR/DVD Recorder.**
4. **Turn on the TV and set the <Source> to the external input the VCR/DVD Recorder is connected.**
5. **Turn on the VCR/DVD Recorder and set the <Source> to the external input source where you connected the Sports Camcorder.**



[Notes]

✤ You can play back photo files as well as the movie files.

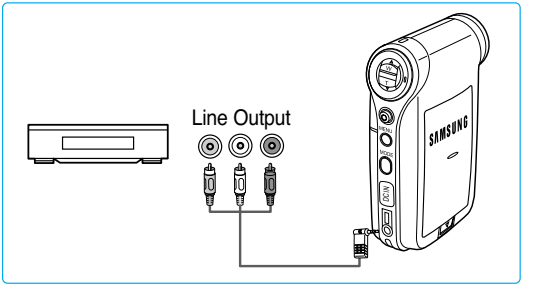
✤ If you wish to input/output an image from another device to the Sports Camcorder, you must first set <Line In/out> in movie mode. ➥page 51

Miscellaneous Information : Connecting To Other Devices

Recording unscrambled content from other digital devices

You can connect other external digital devices to Sports Camcorder to record unscrambled contents.

1. **Connect the provided Audio/Video Cable to the [Multi jack] of the Sports Camcorder.**
2. **Connect the Audio/Video cable to the external output terminal of your digital devices (DVD, DVC, etc.) by matching the cable to the colors of the terminals.**
3. **Press the [POWER] button to turn on the Sports Camcorder.**
   - The Movie Record screen appears.
4. **Press the [MENU] button.**
   Move the [Joystick] left / right to select <Line In/Out>.
5. **Move the [Joystick] up / down to select <In> and then press the [Joystick(OK)].**
6. **Play back the other digital devices.**
7. **Press the [Record/Stop] button to start recording.**
8. **To stop recording, press the [Record/Stop] button again.**



[Note]

✤ The quality of an input signal recorded through the Line input terminal cannot be guaranteed unless it comes from digital devices (DVD, DVC, etc.).

Miscellaneous Information : Printing Photos

Printing with DPOF

DPOF (Digital Printing Order Format) defines the print information for each photo on the memory card. You can easily make prints using a DPOF-compatible printer or order copies from commercial digital image developers.

Printing DPOF files in the memory card

1. Set the DPOF information for the photo you want to print. ➥page 72
2. Insert a memory card into the DPOF- supporting printer.
3. Follow the steps of the printer to print out photos.

[Notes]

✤ For further details about printing photos, refer to the user's manual of the printer.

✤ Printing may not be performed depending on types of printers.
In this case, download JPEG files directly to the PC and print them.

Maintenance : Cleaning and Maintaining the Sports Camcorder

After using the Sports Camcorder

- **For safekeeping of the Sports Camcorder, follow these steps.**
  - ✓ Turn the Sports Camcorder off.
  - ✓ Remove the Battery Pack ➥page 22.
  - ✓ Remove the Memory Card ➥page 34.
- **To prevent any damage to the LCD monitor, do not apply excessive force on its moving parts.**
- **Do not drop or in anyway shock the Sports Camcorder.**
- **For prolonged use of the Sports Camcorder, avoid using it in places subject to excessive humidity or dust.**
- **Do not leave the Sports Camcorder 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.
- **For the safe use of the Battery Pack, follow these.**
  - ✓ To conserve battery power, be sure to turn off the Sports Camcorder 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.
- **For the safe use of the Memory Card, follow these.**
  - ✓ The Memory Card should be stored away from heaters and other heat sources. Avoid storing Memory Cards 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 Card periodically.
  - ✓ When formatting the Memory Card, format in the Sports Camcorder.

Maintenance : Cleaning and Maintaining the Sports Camcorder

Cleaning the Body

✤ **To Clean the Exterior of the Sports Camcorder**

- ✓ 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.

[Note]

✤ If the lens looks dimmer, turn off the Sports Camcorder and leave it for about 1 hour.

Using the Built-in Rechargeable Battery

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

Charging the Built-in Rechargeable Battery

✤ If the Sports Camcorder is not used at all, the cell runs down in 5 days. In this case, connect the AC Power Adapter to the Sports Camcorder and press the [POWER] button to turn on the Sports Camcorder. Then leave it for 24 hours.
After that, set the date and other settings again.

Maintenance : Cleaning and Maintaining the Sports Camcorder

Regarding the Battery

- Battery pack performance decreases when the surrounding temperature is 10°C (50°F) or below, and shortens the battery life. In that case, do one of the following so that the durability of the battery life can be extended for a longer period of time.
  - Put the Battery Pack in a pocket to warm it up, and insert it in your Sports Camcorder immediately prior to use.
  - Use a large capacity Battery Pack.
- Be sure to set the power button to off when not recording or playing back. The battery power is also consumed in standby, play back and pause mode.
- Have your Battery Packs ready for two or three times the expected recording time, and make trial recordings before making the actual recording.
- Do not expose the Battery Pack to water.
  The Battery Pack is not water resistant.
- Keep the battery out of reach of children. If it is swallowed, seek medical assistance immediately.
- Wipe the battery with a clean dry cloth to ensure proper contact.
- Do not pick up the battery using metal tools as this may cause a short circuit.
- Do not short the battery or dispose of the battery in fire. Do not disassemble the battery. The battery could explode or catch fire.
- Use only recommended batteries and accessories.
  Use of batteries not expressly recommended for this equipment may cause an explosion or leakage, resulting in fire, injury or damage to the surroundings.
- Install the battery according to the instructions.
  Improperly installed batteries can cause damage to the sports camcorder.
- When you do not use for a long time, remove the Battery Pack.
  Otherwise, the battery may leak. To avoid damage to the product, be sure to remove the battery when no charge remains.

Maintenance : Cleaning and Maintaining the Sports Camcorder

Using the Sports Camcorder Abroad

- Each country or region has its own electric and color systems. (NTSC/PAL)
- Before using the Sports Camcorder abroad, check the following items:

Power Sources

- You can use the Sports Camcorder in any country or area with the supplied AC Power Adapter where the power input range is 100V - 240V, 50/60Hz.
- Use a commercially available AC plug adapter if necessary, depending on the design of the local wall outlets.

Color System

- You can view your video files using the built-in LCD monitor.
  However, to view your recordings on a television set or to copy them to a video cassette recorder (VCR), the television set or the VCR must be NTSC-compatible and have the appropriate Audio / Video ports. Otherwise, you may need to use a separate Video Format Transcoder (NTSC-PAL format Converter).

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, Mexico, Philippines, Korea, Taiwan, United States of America, etc.

Troubleshooting

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 external memory.
Corrupted file	The file is corrupted.	Delete the corrupted file.
Paper error	Paper has run out.	Check the paper in the printer. If there is no paper, insert the paper.
Ink error	Ink is low.	Check if the ink or toner is low.
File Error	The file is wrong.	Check that the file is JPEG.
Communication Error	An error has occurred while transferring data.	Disconnect the USB cable and connect it again.
Sleeping now...	Power saving mode works.	Press any button to return to previous menu.
Low battery	Battery is low.	Charge the Battery Pack or connect the AC Power Adapter.
Holding the key	The HOLD switch is locked.	Unlock the HOLD switch and operate the Sports Camcorder.
Card error	The Memory Card is corrupted.	Format the Memory Card or replace it with a new one.
Not formatted	Format the Memory Card.	Format the Memory Card.
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. Check the supported file. on page 30.
Write protected	Memory Card is protected to write.	Unlock the Memory Card. (except MMC)
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 The battery is dead The battery is too cold	Connect the AC Power Adapter properly, page 25 Replace the dead Battery Pack Warm up the battery or move to warmer place
Date/Time is wrong	The Date/Time is not set	Set the Date&Time, page 104
Focus does not adjust automatically	Focus is set to manual mode Recording is being done in a dark place Lens is covered with condensation	Set focus to AUTO Use the flash or light the location Clear the lens and check the focus
The Memory Card will not load properly	The Memory Card is in wrong position A foreign object is in the Memory Card slot	Insert the Memory Card properly, page 34 Clear the Memory Card slot

Troubleshooting

Symptom	Possible Causes	Measure
Color balance of picture is not natural	White balance adjustment is required	Set proper white balance, page 61
Digital zoom does not work	The effect(Digital special effect) is applied	Turn off the effect(Digital special effect), page 63
Files stored in the Memory Card cannot be deleted	Memory Card is protected File is locked	Remove the protection tab of Memory Card (except MMC) Remove the lock on the file, page 54, 73, 81, 88, 93
Images on the LCD monitor appear dark	Ambient is too bright Ambient temperature is too low	Adjust the brightness and angle of LCD Low temperatures may produce a dark LCD display This is not a malfunction
Rear of the LCD monitor is hot	Prolonged use of the LCD monitor.	Close the LCD monitor to turn it off, or turn your device off to cool down
Play, rewind and fast forwarding do not work	The Photo Mode is selected	Select 'Movie Mode' and select 'Play'
Memory Card cannot be played back (Photo mode)	The Movie Mode is selected	Select 'Photo Mode' and select 'View'
No picture is taken	Not enough free memory space is remained Memory Card is formatted by different devices	Delete files from the Memory Card or internal memory Format the Memory Card on the Sports Camcorder
Built-in flash does not fire	Light is forced to cancel Light is not available for recording	Select different Flash mode, page 64
Cannot Record a video	The 'Photo Mode' is selected	Select 'Movie Mode'
The LCD monitor turns off	To save power consumption, the LCD monitor and Sports Camcorder's power turns off if there is no button operation for a certain period of time (depending on operation mode).	Operating any button will turn the Sports Camcorder on Pressing the button once again will operate its function

Using the Menu

Movie

1. Record

- Size
  - 720x480
  - 352x240
- Quality
  - Super Fine
  - Fine
  - Normal
- White Balance
  - Auto
  - Daylight
  - Fluorescent
  - Tungsten
  - Custom
- Program AE
  - Auto
  - Sports
  - Spotlight
  - Sand/Snow
- Effect
  - Off
  - Art
  - Mosaic
  - Sepia
  - Negative
  - Mirror
  - B&W
- EIS
  - On
  - Off
- Focus
  - AF
  - MF
- BLC
  - On
  - Off
- Digital Zoom
  - On
  - Off
- Record Mode
  - TV
  - PC
- Line In/Out
  - In
  - Out

2. Play

- Play Mode
  - Play One
  - Play All
  - Repeat One
  - Repeat All
- Lock
  - Lock
  - Multi Select
  - Lock All
  - Unlock All
- Copy To
  - OK
  - Multi Select
  - All

Photo

1. Capture

- White Balance
  - Auto
  - Daylight
  - Fluorescent
  - Tungsten
  - Custom
- Program AE
  - Auto
  - Sports
  - Spotlight
  - Sand/Snow
- Effect
  - Off
  - Art
  - Mosaic
  - Sepia
  - Negative
  - Mirror
  - B&W
- Flash
  - On
  - Auto
  - Off
- Continuous Shot
  - Off
  - 3 shots
- EIS
  - On
  - Off
- Focus
  - AF
  - MF
- BLC
  - On
  - Off
- Digital Zoom
  - On
  - Off

2. View

- Slide
  - Start
  - Interval (sec.)
  - Repeat
- DPOF
  - Copies
  - Set All
  - Reset All
- Lock
  - Lock
  - Multi Select
  - Lock All
  - Unlock All
- Copy To
  - OK
  - Multi Select
  - All

MP3

1. Play

- Repeat
  - Off
  - Repeat One
  - Repeat Folder
  - Repeat All
  - Shuffle Folder
  - Shuffle All
- Equalizer
  - Off
  - Pop
  - Classic
  - Jazz
- Lock
  - Lock
  - Multi Select
  - Lock All
  - Unlock All
- Copy To
  - OK
  - Multi Select
  - All

Using the Menu

Voice Recorder

1. Record
2. Play

Play Mode
- Play One
- Play All
- Repeat One
- Repeat All

Lock
- Lock
- Multi Select
- Lock All
- Unlock All

Copy To
- OK
- Multi Select
- All

File Browser

Lock
- Lock
- Multi Select
- Lock All
- Unlock All

Copy To
- OK
- Multi Select
- All

File Info.
- OK

System Settings

Storage Type
- Internal
- External

USB Mode
- Mass Storage
- PictBridge
- PC-Cam

File No.
- Series
- Reset

Format
- Internal
- External

Memory Space
- 000MB/000MB

LCD Brightness
- 0%
- ⋮
- 100%

LCD Color
- 0%
- ⋮
- 100%

Date&Time Set

Date Format
- YY/MM/DD
- DD/MM/YY
- MM/DD/YY

Time Format
- 12 Hour
- 24 Hour

Date/Time
- Off
- Date
- Time
- Date&Time

Beep Sound
- On
- Off

Start-up
- Movie Mode
- Previous Mode

Reset
- OK

Language
- English / Español / Français / Português / Deutsch / Italiano / Nederlands / Polski / Русский / 한국어 /中文 / Iran / Arab / Magyar / ไทย / Українська / Svenska

Auto Shut off
- Off
- 5 Minutes

Demonstration
- Off
- 5 Minutes
- Play Now

Version Info

Specifications

Model Name		SC-X205(L)/X210(L)/X220(L)	
The Sports Camcorder System			
Movie Recording System		MPEG4 AVI Format	
Photo System		JPEG (640x480, DPOF, Exif 2.2)	
MP3		Stereo Playing	
Voice		WAVE File Recording/Play (8KHz Sampling, 16 bit, Stereo)	
Memory		Internal memory	512MB (SC-X205L)
			1GB (SC-X210L)
			2GB (SC-X220L)
		External memory	SD
			MMC
CCD Pixel		1/6 inch CCD, 680K(Maximum)	
Optical Zoom Ratio		x10	
Focal Length		f=2.4~24mm, F1.8~2.4	
Minimum Illumination		3.0 Lux	
LCD monitor		2.0” Transmission Type, 230K	
Flash effectiveness rating		15inch.	
Connectors			
USB		Mini-B type (USB 2.0 High Speed)	
DC Power In connector		Proprietary 3 pins connector	
Multi jack	Earphones	Ø 3.5 Stereo	
	AV Input/Output	Video (1.0p_p, 75Ω), Audio (-7.5dBm 47KΩ, Stereo)	
		External CMOS Camera	
General			
Operating Temperature		0°C-40°C (32°F-104°F)	
Operating Humidity		10%-80%	
Power Source		3.8V (Li-Polymer Battery Pack), 4.8V (AC Adapter)	
Power Consumption		2.8W (LCD ON)	
Dimensions (WxHxD)		2.41 inch X 3.68 inch X 1.19 inch	
Weight		5.29 oz	
Built-in Microphone		Omni-directional condenser microphone	

Specifications

Model Name	SC-X205(L)/X210(L)/X220(L)
AC Adapter	
Power Requirement	AC 100 ~ 240V, 50 / 60 Hz
DC Output	DC 4.8V, 1.0 A
Operating Temperature	0°C (32°F) ~ 40° (104°F)
Dimensions	2.76 inch X 1.17 inch X 2.33 inch
Weight	3.00 oz.

Model Name	XC-L2N
External CMOS Camera	
CMOS Pixel	1/4 inch CMOS, 320K(Maximum)
Video Resolution	640x480 (VGA)
Exposure	Auto
White Balance	Auto
Focus Type	Fixed
Focal Length	f=5.56mm, F2.0
Connector	
AV Output	Video (1.0Vp_p), Audio (-7.5dBm 47KΩ, Input : mono)
General	
Operating Temperature	0°C~40°C (32°F~104°F)
Operating Humidity	20%~80%
Power Source	B+ (3.2V~4.8V)
Power Consumption	0.7W
Dimensions (LxHxD)	3.67 inch X 1.37 inch X 1.31 inch
Weight	3.39 oz.
Built-in Microphone	Omni-directional condenser microphone

The product design and specifications are subject to change without notice for better performance and quality.

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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 its 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.

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AD68-00994A