

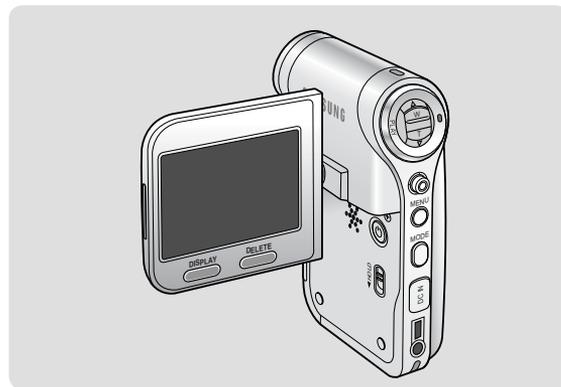
Sports Camcorder

VP-X205L/X210L/X220L

AF Auto-Focus

CCD Charge Coupled Device

LCD Liquid Crystal Display



SAMSUNG

Owner's Instruction Book

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

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

Use only approved battery packs.

Otherwise, there is a danger of overheating, fire or explosion.

Samsung is not responsible for problems occurring due to using unapproved batteries.

AD68-00994F

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Notices and Safety Precautions

Precautions when using the Sports Camcorder

- ❖ Please note the following precautions for use:
 - ❖ Please keep this device in a safe place. The device contains a lens that can be damaged by shock. Keep away from the reach of the children.
-
- Do not place your device in a wet place. Moisture and water may cause the device to malfunction.
 - To avoid electric shock, do not touch your device or power cable with wet hands.
 - Do not use the flash close to another's eyes. The flash emits a strong light that may cause damage similar to direct sunlight on one's eyesight. Particular care should be observed if photographing infants, when the flash should be no less than 3 feet from your subject.
 - If the device is not working properly, please consult your nearest dealer or authorized Samsung service facility. Disassembling the device yourself may cause irrecoverable damage which will be difficult to repair.
 - Clean the device with a dry, soft cloth. Use a soft cloth moistened with a mild detergent solution for removing stains. Do not use any type of solvent, especially benzene, as it may seriously damage the finish.
 - Keep your device away from rain and saltwater. After using, clean the device. Saltwater may cause the parts to corrode.
 - To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.
 - Using the earphone or headphone for an extended time can cause a serious damage to your hearing.
 - If you are exposed to a sound in higher than 85db for an extended time, you will be adversely affected on your hearing. The higher the sound is, the more seriously damaged your hearing is (an ordinary conversation is made in 50 to 60 db and the noise level on the road is approximately 80 db).
 - You are strongly advised to set the volume level to medium (the medium level is usually less than 2/3 of the maximum).
 - If you feel a ringing in the ear(s), lower the volume or stop using the earphone or headphone.
 - Do not use the earphone while you are driving a bicycle, automobile or motorcycle.
 - Otherwise it can cause a serious accident and, furthermore, it is prohibited by the law in some areas.
 - Using the earphone on the way, in particular, on the crosswalk can lead to a serious accident.
 - For your safety, make sure the earphone cable should not get in the way of your arm or other surrounding objects while you are taking exercise or a walk.

Notices and Safety Precautions

Notes Regarding COPYRIGHT

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

Notes Regarding Moisture Condensation

- ❖ **A sudden rise in atmospheric temperature may cause condensation to form inside the Sports Camcorder.**

For Example:

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

Notes Regarding the Sports Camcorder

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

Notices and Safety Precautions

Notes Regarding the Battery Pack

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

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

Notices and Safety Precautions

Notes Regarding the Lens

- ❖ Do not film with the Sports Camcorder lens pointing directly at the sun.
Direct sunlight can damage the CCD (Charge Coupled Device, the imaging sensor).

Notes Regarding the LCD Display

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

Precautions Regarding Service

- ❖ Do not attempt to service the Sports Camcorder yourself.
- ❖ Opening or removing covers may expose you to dangerous voltage or other hazards.
- ❖ Refer all servicing to qualified service personnel.

Precautions Regarding Replacement Parts

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



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Getting to Know Your Sports Camcorder

Features

- **Integrated Digital Camcorder/DSC operation**

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

- **High Resolution Image Quality (Digital Still Camera)**

Employing 800K CCD Pixel, a maximum resolution of 640X480 is available.

- **100x Digital Zoom**

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

- **Colourful TFT LCD**

A high-resolution(230K) colourful TFT LCD gives you clean, sharp images as well as the ability to review your recorded files immediately.

- **Electronic Image Stabilizer (EIS)**

The EIS helps you reduce unstable images by compensating for natural shaking movements.

- **Various Digital Effects**

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

- **USB Interface for Data Transfer**

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

- **PC Cam for multi-entertaining**

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

- **Voice Record / Playback with vast memory**

You can record voices and store it in the internal memory, memory card (not supplied) and play back the recorded voice files.

- **Download & Listen to MP3 Files**

With the Sports Camcorder, you can play back MP3 files stored in the internal memory or memory card (not supplied).

Enjoy your favorite songs with your Sports Camcorder.

- **A Sports Camcorder equipped with External Camera Module**

The Sports Camcorder is equipped with an External Camera Module, which enables you to directly record when connected to the main unit

- **Weatherproof (External Camera Module only)**

The External Camera Module is weatherproof according to IP42 standard.

IP-Protection Level

4- The External Camera is protected against penetration from particles over 1mm in diameter.

2- The External Camera is protected against water sprayed from a vertical position above the centre of Sports Camcorder top

(Power LED facing up) at 15 degree angles.

- **Multi OSD Language**

Supports various foreign languages to display the menu and information.

You can select the desired OSD language from OSD list.

- **Multi jack**

The Multi jack functions as an Earphone, AV Input/Output or External Camera Module jack.

You can use various functions with only one jack.

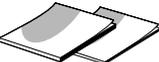
Getting to Know Your Sports Camcorder

Accessories Supplied with the Sports Camcorder

❖ Make sure that the following basic accessories are supplied with your Sports Camcorder.

Basic Accessories

1. Lithium Polymer Battery pack
2. AC Power Adapter
3. Audio/Video Cable
4. USB Cable
5. Earphones
6. Hand Strap
7. Instruction Book/Quick Guide
8. Software CD
9. Lens Cover
10. External Camera Module
11. Rubber Mount
12. Long Mount Band
13. Carrying Case

1. Lithium Polymer Battery pack 	2. AC Power Adapter 	3. Audio/Video Cable 	4. USB Cable 
5. Earphones 	6. Hand Strap 	7. Instruction Book/Quick Guide 	8. Software CD 
9. Lens Cover 	10. External Camera Module 	11. Rubber Mount 	12. Long Mount Band 
13. Carrying Case 	14. Extended life Battery pack 		

Optional Accessory

14. Extended life Battery pack

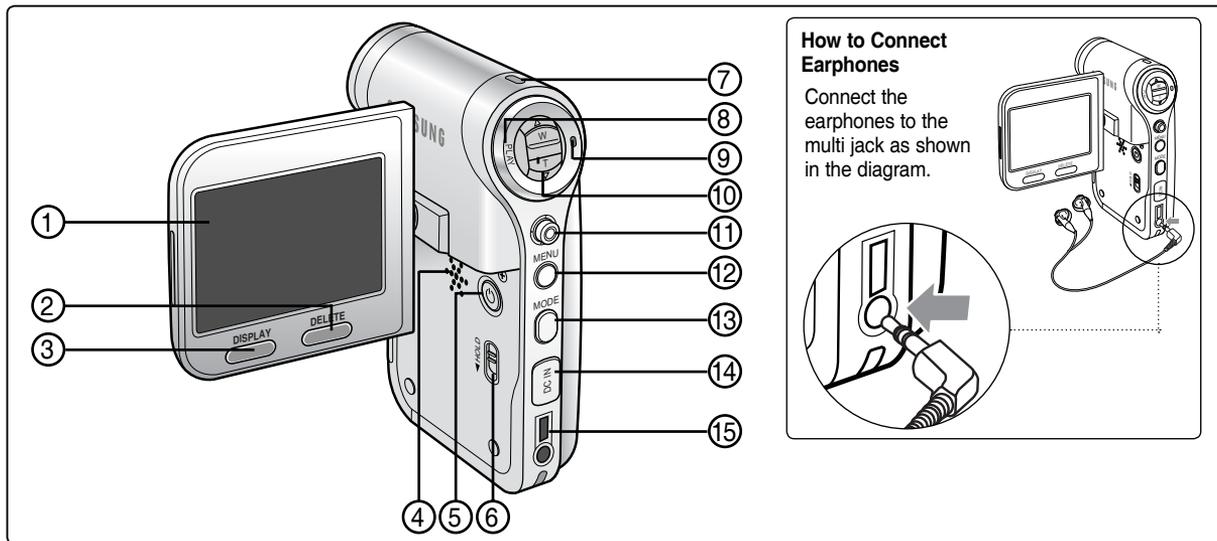
[Notes]

- ❖ Parts and accessories are available at your local Samsung dealer and service centre.
- ❖ You can download programmes, the latest driver software, and audio/video CODECs from the Samsung Electronics webpage. (www.samsung.com)

ENGLISH

Location of Controls

Rear & Left View



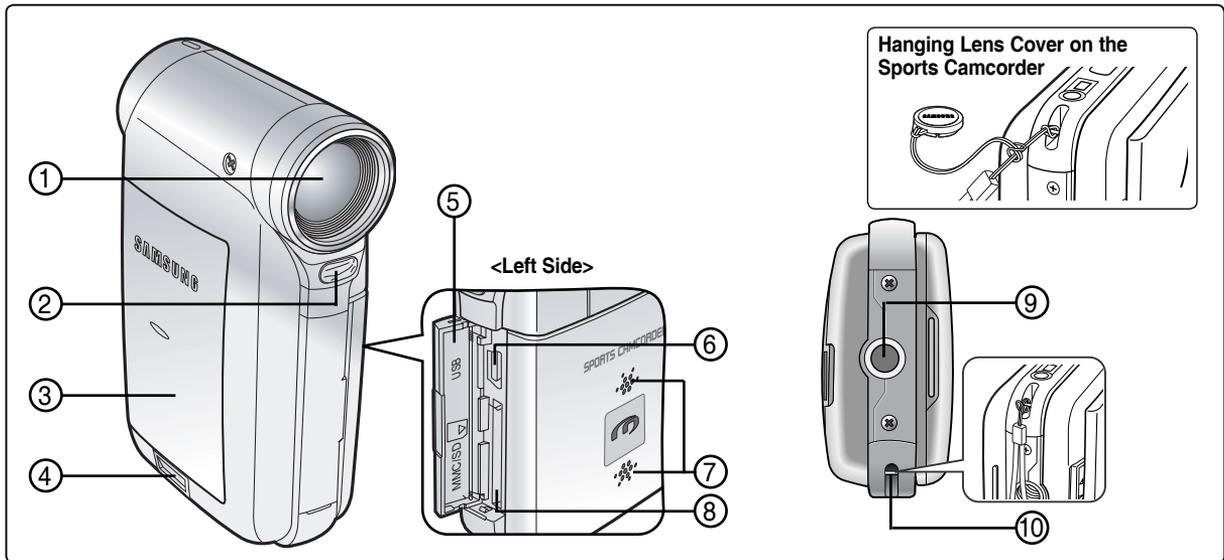
1. LCD monitor
2. DELETE button
3. DISPLAY button
4. Built-in speaker
5. POWER button
6. MP3/ External Camera Module HOLD switch
7. Record / Power / Charging indicator
8. PLAY button
9. Record/Stop button
10. [W/T] switch
11. Joystick (Up, Down, Left, Right, OK)
12. MENU button
13. MODE button
14. DC IN jack
15. Multi jack

[Note]

- ❖ Multi jack is a unified Earphones, AV Input/Output and External Camera Module jack.

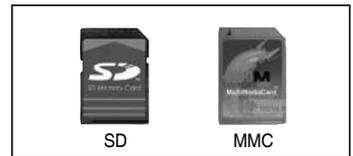
Location of Controls

Side & Bottom View



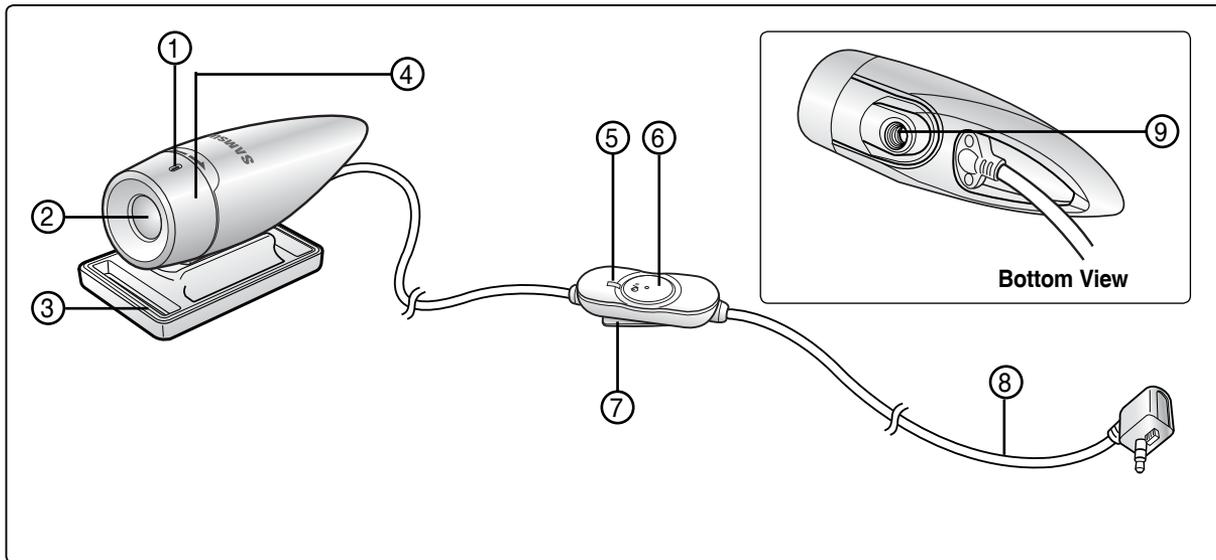
- 1. Lens
- 2. Flash
- 3. Battery pack
- 4. Battery eject switch
- 5. Front cover
- 6. USB port
- 7. Built-in microphone
- 8. Memory card slot
- 9. Tripod receptacle
- 10. Strap hook

Usable Memory Cards (2GB Max)



Location of Controls

External Camera Module View

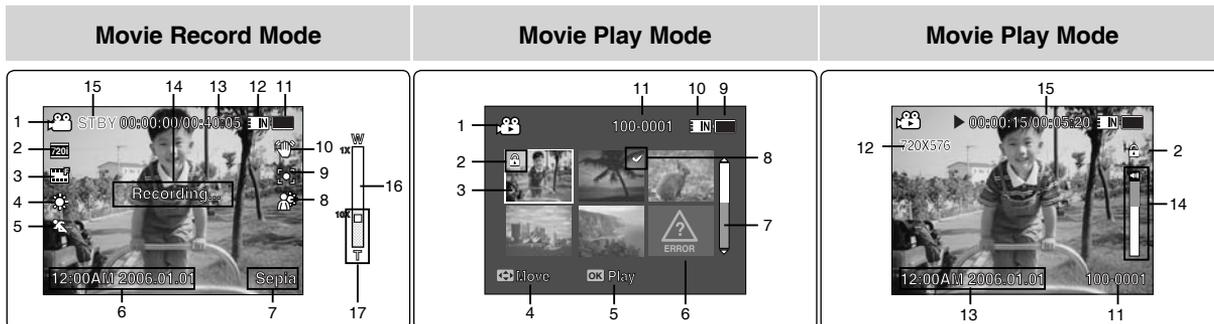


1. Built-in microphone
2. Lens
3. Rubber Mount
4. Picture Rotator
5. Record/Power indicator

6. POWER/Record/Stop button
7. Clip
8. External Camera Module cable
9. Rubber Mount receptacle

Location of Controls : LCD Display

OSD (On Screen Display in Movie Record Mode/Movie Play Mode)



1. Mode indicator
2. Image size indicator
3. Image quality indicator
4. White balance indicator
5. Program AE indicator
6. Date/Time indicator
7. Effect indicator
8. BLC indicator *
9. Focus indicator *
10. EIS indicator
11. Battery life indicator
12. Memory type indicator
13. Counter
(Elapsed time/Remaining time)
14. Warning and note indicator
15. Record/STBY indicator
16. Optical zoom indicator
17. Digital zoom indicator

1. Mode indicator
2. Lock indicator
3. Current display indicator
4. Move (Help Key)
5. Play (Help Key)
6. Damaged file indicator
7. Scroll bar
8. Multi selection indicator
9. Battery life indicator
10. Memory type indicator
11. Image counter (Current image)

12. Image size indicator
13. Date/Time indicator
14. Volume indicator
15. Counter
(Elapsed time/Recorded time)

[Notes]

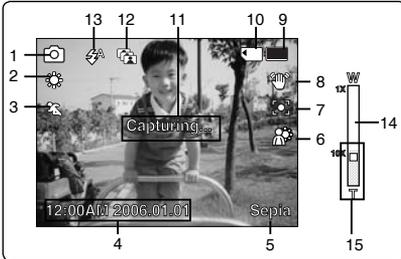
- ❖ Settings indicated with * will not be retained when the Sports Camcorder is turned off.
- ❖ The OSD indicators of this product are based on model VP-X205L.
- ❖ The OSD indicators are based on internal memory.

ENGLISH

Location of Controls : LCD Display

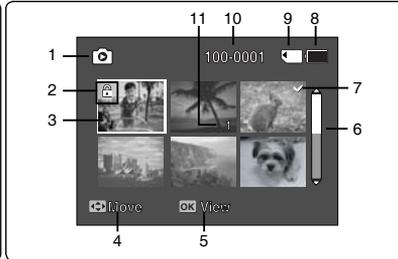
OSD (On Screen Display in Photo Capture Mode/Photo View Mode)

Photo Capture Mode



1. Mode indicator
2. White balance indicator
3. Program AE indicator
4. Date/Time indicator
5. Effect indicator
6. BLC indicator *
7. Focus indicator *
8. EIS indicator
9. Battery life indicator
10. Memory type indicator
11. Warning and note indicator
12. Multi shot indicator
13. Flash indicator
14. Optical zoom indicator
15. Digital zoom indicator

Photo View Mode



1. Mode indicator
2. Lock indicator
3. Current display indicator
4. Move (Help Key)
5. View (Help Key)
6. Scroll bar indicator
7. Multi selection indicator
8. Battery life indicator
9. Memory type indicator
10. Image counter indicator
11. DPOF indicator

Photo View Mode



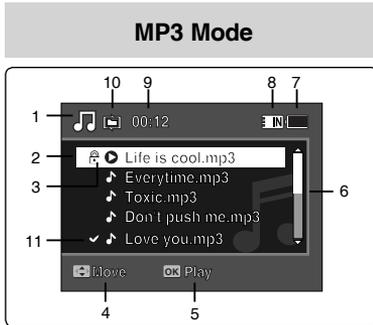
12. Date/Time indicator
13. Slide indicator

[Notes]

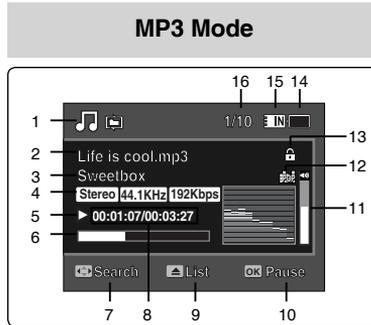
- ❖ Settings indicated with * will not be retained when the Sports Camcorder is turned off.
- ❖ The OSD indicators are based on internal memory.

Location of Controls : LCD Display

OSD (On Screen Display in MP3 Mode)



1. Mode indicator
2. File name indicator
3. Lock indicator
4. Move (Help Key)
5. Play (Help Key)
6. Scroll bar indicator
7. Battery life indicator
8. Memory type indicator
9. Counter(Elapsed time)
10. Repeat indicator
11. Multi selection indicator



1. Mode indicator
2. File name indicator
3. Artist indicator
4. Sampling rate/Bit rate
5. Operation indicator
6. Progress bar indicator
7. Search (Help Key)
8. Counter(Elapsed time/Full time)
9. List (Help Key)
10. Play/Pause (Help Key)
11. Volume indicator
12. Equalizer indicator
13. Lock indicator
14. Battery life indicator
15. Memory type indicator
16. File number indicator
(Current / Total)

[Notes]

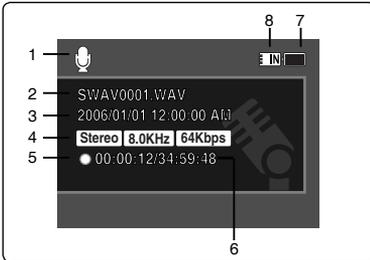
- ❖ Settings will be retained when the Sports Camcorder is turned off.
- ❖ MP3 files with tag information will display the artist name.
MP3 files with no tag information will leave the item blank.

ENGLISH

Location of Controls : LCD Display

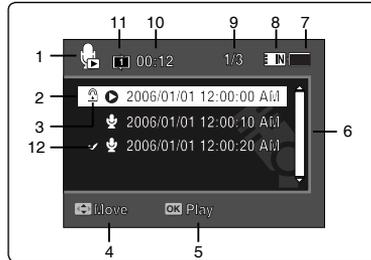
OSD (On Screen Display in Voice Record Mode/Voice Play Mode)

Voice Record Mode



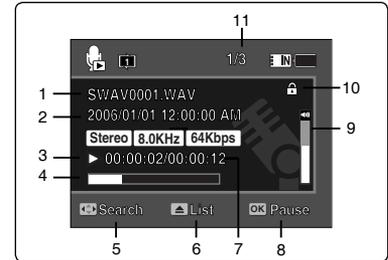
1. Mode indicator
2. File name indicator
3. Date/Time indicator
4. Sampling rate/Bit rate
5. Operation indicator
6. Counter
(Elapsed Time / Remaining Time)
7. Battery life indicator
8. Memory type indicator

Voice Play Mode



1. Mode indicator
2. Date/Time indicator
3. Lock indicator
4. Move (Help Key)
5. Play (Help Key)
6. Scroll bar indicator
7. Battery life indicator
8. Memory type indicator
9. File number indicator
(Current / Total)
10. Counter(Elapsed time)
11. Repeat indicator
12. Multi selection indicator

Voice Play Mode



1. File name indicator
2. Date/Time indicator
3. Operation indicator
4. Progress bar indicator
5. Search (Help Key)
6. List (Help Key)
7. Counter
(Elapsed time / Recorded time)
8. Play/Pause (Help Key)
9. Volume indicator
10. Lock indicator
11. File Number indicator
(Current / Total)

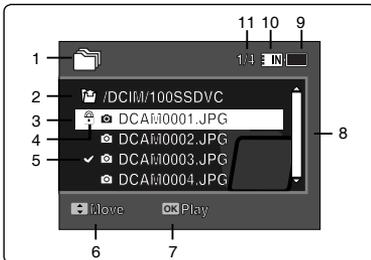
[Note]

- ❖ Settings will be retained when the Sports Camcorder is turned off.

Location of Controls : LCD Display

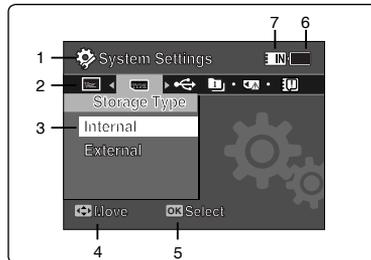
OSD (On Screen Display in File Browser Mode/System Settings Mode)

File Browser Mode



1. Mode indicator
2. Current selected folder indicator
3. Current selected file indicator
4. Lock indicator
5. Multi selection indicator
6. Move (Help Key)
7. Play (Help Key)
8. Scroll bar indicator
9. Battery life indicator
10. Memory type indicator
11. File number indicator
(Current / Total)

System Settings Mode



1. Mode indicator
2. Menu tab
3. Setup item
4. Move (Help Key)
5. Select (Help Key)
6. Battery life indicator
7. Memory type indicator

ENGLISH

How to Use the Battery Pack

Battery Pack Installation / Ejection

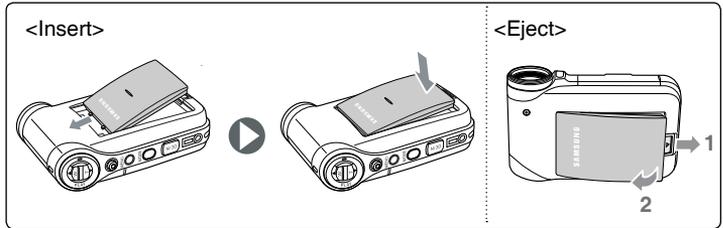
It is recommended you purchase one or more additional battery packs to allow continuous use of your Sports Camcorder.

To insert the battery pack

Slide the battery pack into the groove until it clicks.

To eject the battery pack

Pull the Battery eject switch to eject the battery pack.



Battery
SB-P120A (1200mAh)
SB-P190A (1900mAh)

[Notes]

- ❖ Clean the terminals to remove foreign substances before inserting the battery pack.
- ❖ If the Sports Camcorder will not be in use for a while, remove the battery pack from the Sports Camcorder.

How to Use the Battery Pack

Maintaining the Battery Pack

- ❖ The battery pack should be recharged in an environment of between 32°F(0°C) and 104°F(40°C).
- ❖ The battery pack should never be charged in a room temperature that is below 32°F(0°C).
- ❖ The life and capacity of the battery pack will be reduced if it is used in temperatures below 32°F(0°C) or left in temperatures above 104°F(40°C) for a long period.
- ❖ Do not put the battery pack near any heat sources (fire or flames, for example).
- ❖ Do not disassemble, process, press or heat the battery pack.
- ❖ Do not allow the + and - terminals of the battery pack to be short-circuited. It may cause leakage, heat generation, induce fire and overheating.
- ❖ It is recommended that you use the original Samsung battery pack that is available at the retailer where you purchased the Sports Camcorder.

Continuous recording time based on battery type

If you close the LCD screen, it switches off automatically.

The continuous recording times given in the table below are approximations. Actual recording time depends on usage.

Battery	Time	Continuous Recording Time	
		LCD ON	Backlight OFF
SB-P120A (1200mAh)		Approx. 1 hr. 20 min.	Approx. 1 hr. 40 min.
SB-P190A (1900mAh)		Approx. 2 hr. 30 min.	Approx. 2 hr. 50 min.

[Warning]

- ❖ When you eject the battery pack from the Sports Camcorder, hold the battery pack to prevent it from dropping to the floor.

[Notes]

- ❖ Prepare an extra battery if you use the Sports Camcorder outdoors.
- ❖ Contact a Samsung retailer to purchase a new battery pack.
- ❖ If you zoom in or out, the recording time becomes shorter.
- ❖ 'The Continuous Recording Time' listed is approximate and is affected by functions such as zooming.

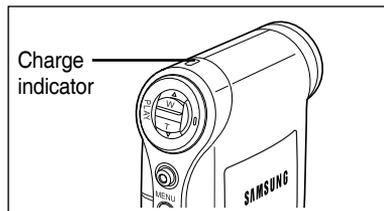
ENGLISH

How to Use the Battery Pack

Battery Level Display

The Battery Level Display shows the amount of battery power remaining in the battery pack.

Battery Level Indicator	State	Message
	Fully charged	-
	20~40% used	-
	40~60% used	-
	60~80% used	-
	80~95% used	-
	Exhausted(flickers) The device will soon turn off. Change the Battery Pack as soon as possible.	-
	(flickers) The device will be forced to turn off after 5 seconds.	"Low battery"



Tips for Battery Identification

If the battery has been fully charged, the charge indicator is green.
If you are charging the battery, the colour of the charge indicator is orange.
The charge indicator flickers if the battery is abnormal.

Charging time based on battery type

Capacity	using AC Power Adapter	using USB cable
SB-P120A (1200mAh)	Approx. 1 hr. 50 min	Approx. 3hr. 40 min
SB-P190A (1900mAh)	Approx. 3 hr. 20 min	Approx. 6hr. 20 min

[Notes]

- ❖ You may charge your Sports Camcorder by connecting it to a PC with the USB cable.
- ❖ You may not charge via USB if the power is on.
- ❖ The charging time with the USB cable may differ depending on the PC.

How to Use the Battery Pack

Charging the Battery Pack

1. Turn off the Sports Camcorder by pressing the [POWER] button.
2. Insert the battery pack to the unit.
3. Open the connector cover of the unit.
4. Charge the battery pack by using AC Power Adapter or USB Cable.

AC Power Adapter	Connect the AC Power Adapter with the Sports Camcorder and plug the AC Power Adapter to the wall outlet.
USB Cable	Connect the USB Cable with the Sports Camcorder and connect the other side to a USB port on your PC

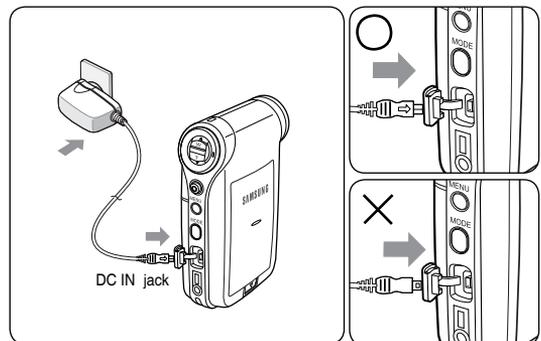
[Note]

- ❖ You may use the Sports Camcorder powered by the AC Power Adapter indoors where available.

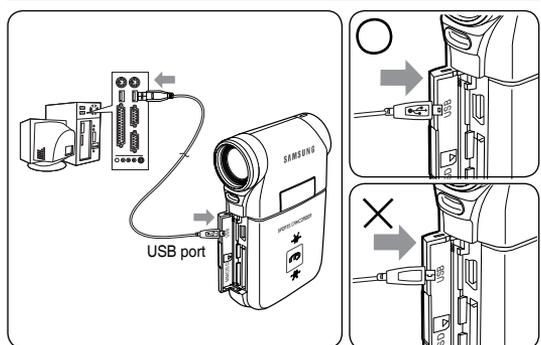
[Warning]

- ❖ It is recommended you fully charge the battery pack before use.
- ❖ You should only charge the battery in an environment between 32°F and 104°F.
- ❖ If ambient temperature is too low when charging, the battery may take a long time to fully charge, or may not charge completely and the green indicator will not turn on.
- ❖ Before connecting the cable, make sure that you don't have any foreign substances between connectors.

Connecting the AC Power Adapter



Connecting the USB Cable



ENGLISH

Getting Started

The LED Colour

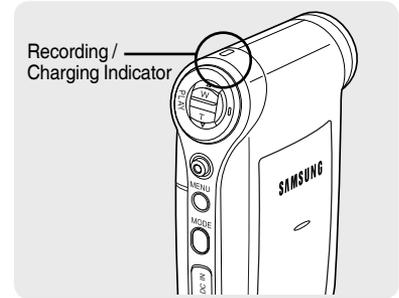
The LED Colour indicates the power or charge status.

Recording / Charging Indicator

LED Colour	During Recording	During Charging
Red	Recording <Movie and Voice Recorder mode>	-
Orange	-	Charging
Green	-	Fully Charged

Power Indicator

LED Colour	Power
Blue	On



Before You Start Operating the Sports Camcorder

Before using the Sports Camcorder, refer to this page for easy operation. The memory card is not supplied.

1. Insert the battery pack and insert a memory card into the memory card slot. ➔page 34
2. Charge the battery pack by directly connecting the AC Power Adapter to the Sports Camcorder.
➔page 25
3. Press the [POWER] button to turn on the Sports Camcorder.
4. Select the desired mode by pressing the [MODE] button.
5. Press the [Record / Stop] button to take a picture, start recording movie / voice.
6. When finished, press the [POWER] button to turn the Sports Camcorder off.

Getting Started

Using the MODE button

The [MODE] button is used to change the Sports Camcorder mode. Available modes are Movie, Photo, MP3, Voice Recorder, File Browser and System Settings.

Setting the Mode

Set the desired mode by pressing the [MODE] button.

The Sports Camcorder switches to the designated mode.

Functions of Each Mode



Movie mode

You can record and play movie files.



Voice Recorder mode

You can record and listen to voice files.



Photo mode

You can take and view photo files.



File Browser mode

You can delete, lock, copy the file and view file information.



MP3 mode

You can play back mp3 files.



System Settings mode

Using this mode, you can set / adjust settings regarding the LCD display, Date / Time, Reset and Memory management.

Power Saving Function

The LCD monitor is turned off after a certain period of time has passed (see below) in each mode in order to prevent unnecessary battery power consumption.

Press any button to go back and turn on the LCD monitor.

Mode	Movie	Photo	MP3	Voice Recorder	File Browser	System Settings	USB
Time	10 min.	3 min.	30 sec.	30 sec.	30 sec.	60 sec.	60 sec.

Getting Started

Using the Function button

The Function button is used to make a selection, move the cursor, select the functions and exit from the menu.

Using the Function button

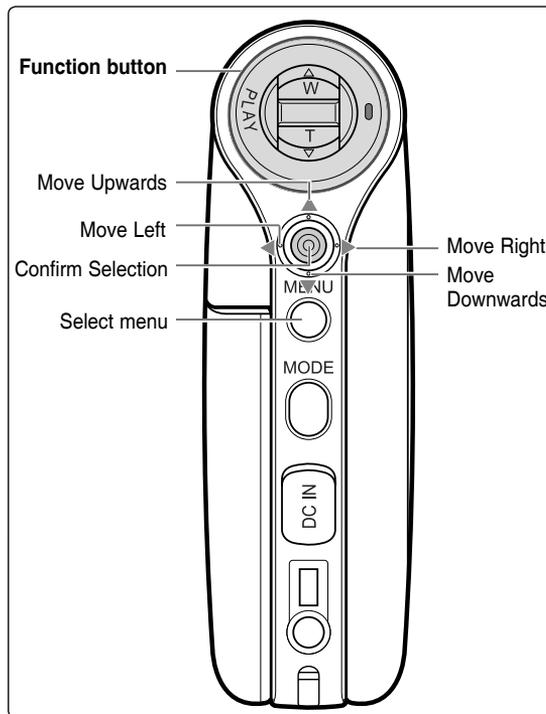
Button	Recording/ Capturing	Playing/Viewing
	Zoom out (▲)	Multi-Play screen / List
	Zoom in (▼)	-
	Change from Record/ Capture to Play/View	Play/Pause
	Recording	Change from Play/View to Record/Capture

Using the Joystick

- ❖ The joystick is used to make a selection, move the cursor, select functions, and exit from the menu.
1. Move the cursor left / right by moving the [Joystick].
 2. Move the cursor up / down by moving the [Joystick].
 - ◆ You can adjust the volume by moving the [Joystick] (up / down) in *Movie* / *MP3* / *Voice Recorder* playback modes
 3. Confirm your selection by pressing the [Joystick(OK)].

Using the MENU button

1. Set the desired mode by pressing the [MODE] button.
2. Press the [MENU] button.
3. Move the cursor by moving the [Joystick] up / down / left / right to select desired menu item, and then press the [Joystick(OK)] to confirm.
4. Press the [MENU] button to finish.

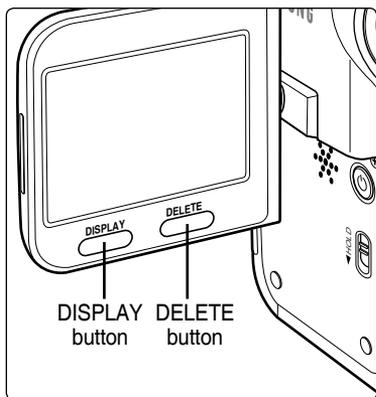


Getting Started

Using the DISPLAY button

Each press of the [DISPLAY] button toggles the OSD indicator on and off.

1. Open the LCD monitor.
2. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
 - ◆ You can select Movie Mode or Previous Mode as the Start-up mode in System Settings. ➔page 109
3. Press the [DISPLAY] button.



If you press the [DISPLAY] button in Movie and Photo modes

- ❖ Once : All indicators will disappear on the screen.
- ❖ Twice : The backlight turns off.
- ❖ 3 times : It returns to the initial screen.

[Note]

- ❖ Above description applies to the Movie and Photo mode.

If you press the [DISPLAY] button in another mode

- ❖ Once : The back light turns off.
- ❖ Twice : It returns to the initial screen.

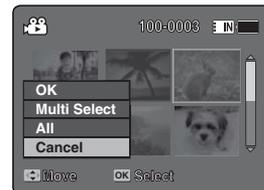
[Note]

- ❖ Above description applies to the MP3/Voice Recorder/File Browser/System Settings mode.

Using the DELETE button

The [DELETE] button is used to delete saved files.

- ◆ <OK>: The selected file is deleted.
- ◆ <Multi Select>: The selected files will be deleted.
- ◆ <All>: All files will be deleted.
- ◆ <Cancel>: Cancels deletion.



Getting Started

Structure of the Folders and Files

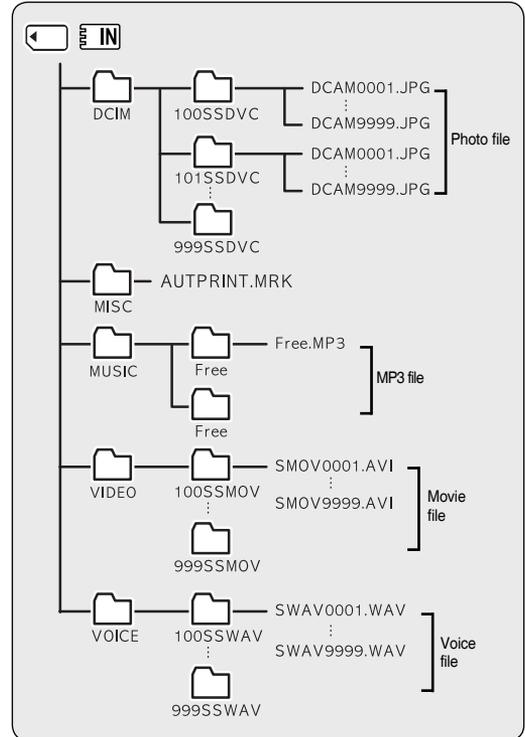
The movie files and photo files are stored in internal memory or on a memory card as shown below.

[Notes]

- ❖ Refer to page 33 for details about memory card.
- ❖ You can store general data in files and folders of the Sports Camcorder.
- ❖ You can store up to 9,999 files and 999 folders.
- ❖ A file number from DCAM0001 is sequentially assigned to each recorded file.
- ❖ Each folder is numbered from 100SSDVC and recorded in memory.
- ❖ A file name is stipulated by DCF(Design rule for Camera File system)
- ❖ DCAM****.JPG: Photo file
SMOV****.AVI: Movie file
SWAV****.WAV: Voice file
*****.MP3: MP3 file
- ❖ MISC: DPOF files are stored.
- ❖ You can freely change the file or folder names in the MUSIC folder.
- ❖ Movie files made on other manufacturers' equipment may not play on this Sports Camcorder.

[Warning]

- ❖ Do not turn the power off while recording, playing, erasing files or formatting.
- ❖ Turn the power off before you insert or eject the memory card to avoid losing data.
- ❖ Save important files separately.
- ❖ Memory cards are made with precision technology. They are sensitive and vulnerable to electric shock, temperature and humidity. Be cautious with handling them to avoid losing data.
- ❖ Damaged data may not be recovered, and SAMSUNG is not responsible for lost data. Make sure to back up important files on your PC separately.



Getting Started

Recording Time and Capacity

Movie Record Time

Media	Capacity	Super Fine		Fine		Normal	
		352p	720i/720p	352p	720i/720p	352p	720i/720p
Internal Memory	512MB (VP-X205L)	approx. 21min.	approx. 14min.	approx. 32min.	approx. 21min.	approx. 65min.	approx. 32min.
	1GB (VP-X210L)	approx. 43min.	approx. 29min.	approx. 65min.	approx. 43min.	approx. 131min.	approx. 65min.
	2GB (VP-X220L)	approx. 86min.	approx. 58min.	approx. 130min.	approx. 86min.	approx. 262min.	approx. 130min.
SD/MMC	32MB	approx. 1min. 20sec	approx. 50sec.	approx. 2min.	approx. 1min. 20sec.	approx. 4min.	approx. 2min.
	64MB	approx. 3min.	approx. 2min.	approx. 4min.	approx. 3min.	approx. 7min.	approx. 4min.
	128MB	approx. 4min.	approx. 3min.	approx. 7min.	approx. 4min.	approx. 17min.	approx. 7min.
	256MB	approx. 11min.	approx. 7min.	approx. 17min.	approx. 11min.	approx. 32min.	approx. 17min.
	512MB	approx. 21min.	approx. 14min.	approx. 32min.	approx. 21min.	approx. 65min.	approx. 32min.
	1GB	approx. 43min.	approx. 29min.	approx. 65min.	approx. 43min.	approx. 131min.	approx. 65min.
	2GB	approx. 86min.	approx. 58min.	approx. 130min.	approx. 86min.	approx. 262min.	approx. 130min.

[Notes]

- ❖ The recording time and capacity is an approximation.
- ❖ The recording times shown are maximum figures based on using one function.
In actual use, using more than one function will reduce the capacity of each.
- ❖ The compressibility is changed automatically depending on the recorded images. The maximum recording time and capacity can be changed in 'Movie Record'.
- ❖ The Sports camcorder supports 2GB memory cards and lower. Any card above 2GB may not record or play properly.
- ❖ If you record movie files at Normal(352/720) quality to the internal memory or a memory card, the recording time increases but the movie may have lower quality than other levels.
- ❖ The recording time and capacity may vary if a bad sector(section) is generated when you record movie files to a memory card.

Getting Started

Number of Photos that can be taken

Media	Capacity	Quality
		640x480
Internal Memory	512MB (VP-X205L)	approx. 2875
	1GB (VP-X210L)	approx. 5754
	2GB (VP-X220L)	approx. 11511
SD/MMC	32MB	approx. 177
	64MB	approx. 357
	128MB	approx. 716
	256MB	approx. 1436
	512MB	approx. 2875
	1GB	approx. 5754
	2GB	approx. 11511

Voice Record Time

Media	Capacity	Time
Internal Memory	512MB (VP-X205L)	approx. 17hr.
	1GB (VP-X210L)	approx. 35hr.
	2GB (VP-X220L)	approx. 70hr.
SD/MMC	32MB	approx. 1hr.
	64MB	approx. 2hr.
	128MB	approx. 4hr.
	256MB	approx. 8hr.
	512MB	approx. 17hr.
	1GB	approx. 35hr.
2GB	approx. 70hr.	

Number of MP3 files that can be saved

Media	Capacity	MP3 files
Internal Memory	512MB (VP-X205L)	approx. 128files
	1GB (VP-X210L)	approx. 256files
	2GB (VP-X220L)	approx. 512files
SD/MMC	32MB	approx. 8files
	64MB	approx. 16files
	128MB	approx. 32files
	256MB	approx. 64files
	512MB	approx. 128files
	1GB	approx. 256files
	2GB	approx. 512files

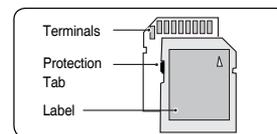
[Notes]

- ❖ Number of MP3 files that can be saved is based on 128Kbps sampling / 4MB size.
- ❖ Capacity may vary depending on file size.
- ❖ You must only format the memory card on the Sports Camcorder.
➡page 100
- ❖ Do not format the memory card on your PC.
- ❖ If you set the light on, the number of photos that can be taken will be reduced.
- ❖ The recordable time and number of files are maximum figures based on using one function.
In actual use, using more than one function will reduce the capacity of each.
- ❖ While saving to a memory card, recording may stop and a message will appear saying <Low speed card. Please record at lower quality.> It is because the writing speed of the memory card is slow. We recommend using a memory card of 1.25MB/sec or greater.

Getting Started

Using a Memory card (SD/MMC) (not supplied)

- ❖ Samsung is not responsible for data loss due to misuse.
- ❖ Turning the power off / ejecting the memory card during memory operation such as formatting, deleting, recording, and playback may damage the data.
- ❖ You may modify the name of a file / folder stored in the memory card using a PC. The Sports Camcorder may not recognise modified files.
- ❖ It is recommended that you power off before inserting or ejecting the memory card to avoid losing data.
- ❖ It is not guaranteed that you may use a memory card formatted on other devices. Be sure to format your memory card using the Sports Camcorder.
- ❖ Save important files separately on other media, such as floppy disk, hard disk, or CD.
- ❖ You have to format newly-purchased memory cards, memory cards that the Sports Camcorder cannot recognise or the cards that have data saved by other devices.
- ❖ A memory card has a certain life span. If you use it for a long time, you may not be able to record new data. In this case, you have to purchase a new memory card.
- ❖ Do not bend, drop, or apply a strong impact to the memory card.
- ❖ Do not use or store in a hot, dusty or humid environment.
- ❖ Do not allow foreign substances on the memory card terminals. Use a soft dry cloth to clean the terminals if required.
- ❖ Use a memory card case to avoid losing data from moving and static electricity.
- ❖ After a period of use, the memory card may get warm. This is normal and not a malfunction.
- ❖ Damaged data may not be recovered, and SAMSUNG is not responsible for the lost data. Make sure to back up important files separately on a PC.
- ❖ miniSD/RS-MMC cards must be inserted in a special card adapter in order to be used.
- ❖ Be sure to insert miniSD/RS-MMC cards in the dedicated card adapter before use. Inserting a card in the Sports Camcorder without the adapter may damage the Sports Camcorder or the card.
- ❖ Do not insert an empty card adapter in the Sports Camcorder. Do not leave the adapter in the Sports Camcorder while inserting or removing miniSD/RS-MMC cards. This may cause the Sports Camcorder to malfunction.



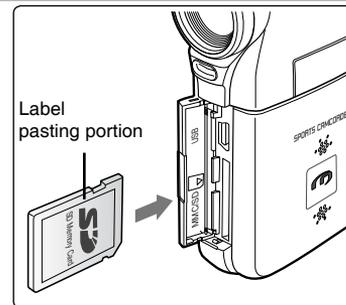
<SD/MMC>

Getting Started

Inserting / Ejecting the memory card (SD/MMC) (not supplied)

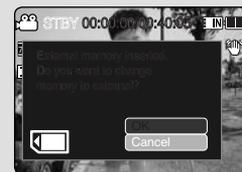
Inserting a memory card

1. Open the Front cover.
2. Insert the memory card into the memory card slot until it softly clicks.
3. Close the Front cover.



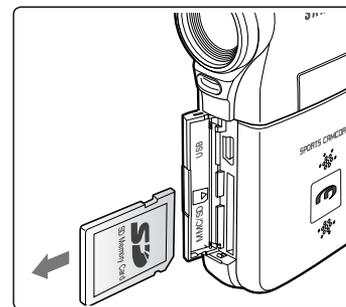
Caution: This screen will appear if the memory card is inserted with the power on.

- ◆ If you select <OK>, the memory type changes to 'External' and if you select <Cancel>, files are stored in internal memory.
- ◆ If you insert a locked memory card, the [🔒] icon is displayed next to the memory type indicator.



Ejecting a memory card

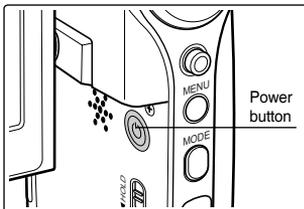
1. Open the Front cover.
2. Slightly push the memory card inwards to pop it out.
3. Pull the memory card out of the memory card slot and close the Front cover.



1 Movie Mode

How to set to Movie mode

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



2. The *Movie Record* screen appears.



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

Movie Mode : Recording

Recording

You can record movie and store it in memory.

Refer to the page 119 for recording movie using the External Camera Module.

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

- ◆ The Movie Record screen appears.
- ◆ You can select Movie mode or Previous mode as the start-up mode in System Settings.
→page 109

2. Press [Record/Stop] button to start recording.

- ◆ [●] indicator displays on the LCD monitor.
- ◆ The elapsed and remaining times are displayed and the Sports Camcorder starts recording.

3. Press the [Record/Stop] button again to stop recording.

- ◆ The Sports Camcorder stops recording.

4. After recording, press the [POWER] button to turn off the Sports Camcorder to prevent battery power consumption.

Reading the Counter

- ◆ The timestamp will be recorded along with the movie to enable faster searching.



[Notes]

- ❖ If the Auto Shut Off is set, the Sports Camcorder turns off automatically after 5 minutes.
- ❖ Detach the battery pack when you finish recording to prevent unnecessary battery power consumption.
- ❖ To adjust the LCD screen brightness, set the <LCD Brightness> in System Settings mode. →page 102
- ❖ The LCD monitor brightness will not affect the brightness of the recording.
- ❖ If you are recording with the LCD monitor closed, the built-in microphone will not be facing forward, which can cause deterioration of the sound strength. We recommend recording with the LCD screen open.

Movie Mode : Recording

Zooming In and Out

Zooming allows you to change the size of the subject captured in a scene. You can take advantage of the 10x optical electro motion zoom lens.

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

- ◆ The Movie Record screen appears.
- ◆ You can select Movie mode or Previous mode as the start-up mode in System Settings. ➔page 109

2. Press the [Record/Stop] button to start recording.



Slide the [W/T] switch up to zoom out.

- The subject's size is reduced, and you can record movies as if you were far away from the subject.
- On the zoom indicator in the LCD screen, the arrow moves to W.
- The smallest rate of zoom out is the default rate (original resolution of the subject).



Slide the [W/T] switch down to zoom in.

- The subject is larger, and you can record movies as if you were close to the subject.
- On the zoom indicator the arrow moves to T.
- The largest optical zoom ratio is 10x.

Zoom Out



Zoom In



[Notes]

- ❖ Frequent use of zooming may result in higher battery power consumption.
- ❖ Optical zoom preserves the image quality.
- ❖ Refer to page 49 to read about Digital Zoom.

Movie Mode : Playing

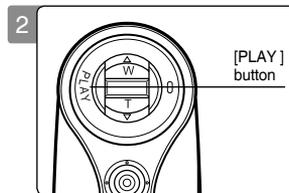
Playing Movie Files on the LCD monitor

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

- 1. Press the [POWER] button to turn on the Sports Camcorder.**
 - ◆ The Movie Record screen appears.
- 2. Press the [PLAY] button or [Joystick(OK)].**
 - ◆ Switches to Movie Play mode.
- 3. Move the [Joystick] left / right to find the movie file you want to view.**
 - ◆ Each movement of the [Joystick] goes to the previous/next movie.
- 4. Press the [PLAY]button or [Joystick(OK)] to play the movie file you want.**
 - ◆ Each time you press the [PLAY] button or [Joystick(OK)], play or pause is selected repeatedly.

[Notes]

- ♣ To adjust volume, move the [Joystick] up/down during playback.
- ♣ If there is no file stored to view, the message <No Files...> appears.



Movie Mode : Playing

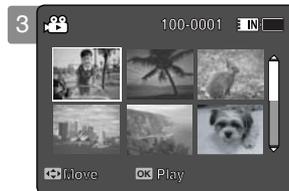
Playing Multiple Movie Files

Using the [W/T] switch in Movie Play mode, you can display multiple images on the LCD monitor. You can also select and play the desired movie file in a multi-view screen.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [PLAY] button or [Joystick(OK)] and move the [W/T] switch to W(WIDE).
 - ◆ The Multi-view screen appears.
3. Move the [Joystick] to left / right / up / down to find the movie file you want to play.
4. Press the [PLAY] button or [Joystick(OK)] to play the movie file you want.
 - ◆ Each time you press the [PLAY] button or [Joystick(OK)], play or pause is selected repeatedly.

[Notes]

- ❖ If there is no file stored to view, the message <No Files...> appears.
- ❖ When the earphones, Audio / Video cable or External Camera Module is connected to the Sports Camcorder, the built-in speaker will automatically turn off.



Movie Mode : Playing

Controls used to play the movie file

[PLAY] button or [Joystick(OK)]: Play or pause the movie file

[W] switch: The Multi-view screen appears.

[Joystick](left): In Movie Play mode: Press it to move to previous file.

Press and hold it to use RPS (Reverse Playback Search) function.

(RPS rate: 2x→4x→8x→16x→32x→64x→128x)

[Joystick](right): In Movie Play mode: Press it to move to next file.

Press and hold it to use FPS (Forward Playback Search) function.

(FPS rate: 2x→4x→8x→16x→32x→64x→128x)

In Movie Play mode: Press and hold it to play slowly when paused.

Press it to move to the next frame when paused.

Adjusting the Sound

1. Press the [PLAY] button or [Joystick(OK)] to play the movie file in Movie Play mode.

2. Move the [Joystick] up to increase the volume.

- ◆ Each time you move the [Joystick] up, the volume bar increases and the sound level will get louder.
- ◆ The volume bar disappears after 1~2 seconds.

3. Move the [Joystick] down to decrease the volume.

- ◆ Each time you move the [Joystick] down, the volume bar decreases and the sound level will get quieter.
- ◆ The volume bar disappears after 1~2 seconds.

[Notes]

- ❖ You can adjust the volume up to 10 steps.
- ❖ You can also play the movie file on a TV screen by connecting the Sports Camcorder to a TV. ➡page 127
- ❖ A video codec is required to play the movie files recorded on the Sports Camcorder on a computer. Install the software provided in the Software CD to have the CODEC automatically installed in the system. If you do not have the CD, search the product model name in the Download Centre on the Samsung Electronics home page (www.samsung.com) to get the CODEC installation file. ➡page 124



Movie Mode : Setting the Recording Options

Setting the Movie Size

You can set the movie files size. The file storage capacity depends on the memory capacity and movie file size.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
Move the [Joystick] left / right to select <Size>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ Available options are: <720x576> / <352X288>
4. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.

[Notes]

- ❖ If <TV> is selected in <Record Mode>, the size is set to 720i only.
If <PC> is selected in <Record Mode>, the size is set to 720p or 352p.
- ❖ Regarding detailed image capacity. ➡page 31.
- ❖ Higher resolution requires more memory space, which results in shorter maximum recording time.
- ❖ When the screen size is set to 352(352X288), it is played back in smaller size than 720(720X576) on PC.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the Movie Quality

You can set the movie file's quality. The files storage capacity depends on the memory capacity and movie file quality.

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

2. Press the [MENU] button.
 - Move the [Joystick] left / right to select <Quality>.

3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ Available options are: <Super Fine> / <Fine> / <Normal>

4. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.

[Notes]

- ❖ Regarding detailed image capacity. ➡page 31.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the White Balance

The White Balance may vary depending on the lighting conditions.
The White Balance is used to preserve natural colours under different lighting conditions.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
Move the [Joystick] left / right to select <White Balance>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

◆ To set Custom, frame your Sports Camcorder on a white area (such as a wall), filling the LCD monitor with white colour. Press the [Joystick(OK)] to set.

Auto	Automatically sets according to the recording environment.
Daylight	Adjusts the colour according to daylight/indoor, outdoor light
Fluorescent	Suitable for a fluorescent light environment.
Tungsten	Suitable for an incandescent light environment.
Custom	You can adjust the white balance as you wish based on the recording environment.

4. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.
 - ◆ If <Auto> is selected, no icon will be displayed.

[Notes]

- ❖ When recording outdoors, the <Auto> setting will allow you to achieve the best results.
- ❖ As the lighting conditions change, set the appropriate white balance before recording.
- ❖ The subject used for <Custom> should be white colour. If not, the colour balance will not be natural.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the Program AE (Programmed Auto Exposure)

Program AE modes are preset automatic exposure modes based upon an internal computer programme. It allows you to adjust the aperture setting to suit different conditions.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
Move the [Joystick] left / right to select <Program AE>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

Auto	Auto balances between the subject and background to get the best result. The shutter speed automatically varies from 1/50 to 1/250 per second depending on the scene.
Sports	For recording fast-moving people or objects. It is suitable for sports events and recording outside in the car.
Spotlight	Compensates for a subject that appears too bright under strong direct light such as spotlight. It is suitable for concerts and school performances.
Sand/Snow	Use when the light is very strong such as on the beach or in the snow.

4. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.
 - ◆ If <Auto> is selected, no icon will be displayed.

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the Effect

You can apply various digital effects to your recording.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
Move the [Joystick] left / right to select <Effect>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

Off	Cancels the <Effect>.
Art	Adds artistic effects to your movie file.
Mosaic	A mosaic overlay appears on your movie file.
Sepia	The image is displayed in sepia colour similar to that of an old photograph.
Negative	Reverses the colours, creating the look of a negative.
Mirror	This mode cuts the image in half using a Mirror effect.
B&W	Changes the images into Black and White.

4. Press the [MENU] button to exit the menu.
 - ◆ The selected effect and icon are displayed.
 - ◆ If <Off> is selected, no icon will be displayed.

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the EIS (Electronic Image Stabilizer)

The Electrical Image Stabilizer is a function that compensates for hand shake and other movements while recording.

EIS provides a more stable image when:

- ◆ Recording while zooming
- ◆ Recording small objects
- ◆ Recording while walking or moving
- ◆ Recording through the window of a moving vehicle

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

- ◆ The Movie Record screen appears.

2. Press the [MENU] button.

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

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

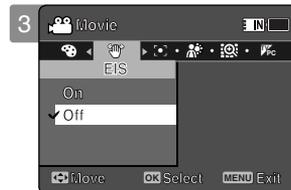
- ◆ <On>: Enables EIS function.
- ◆ <Off>: Disables EIS function.

4. Press the [MENU] button to exit the menu.

- ◆ If you select <On>, the EIS icon () is displayed.
- ◆ If you select <Off>, no icon is displayed.

[Note]

- ◆ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the Focus

You can set the focus depending on the subject or environment. In most situations, it is best to use the AF(Auto Focus).

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
Move the [Joystick] left / right to select <Focus>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <AF>: Set the focus automatically.
 - ◆ <MF>: Set the focus manually.
4. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.
 - ◆ If you select <AF>, no icon is displayed.

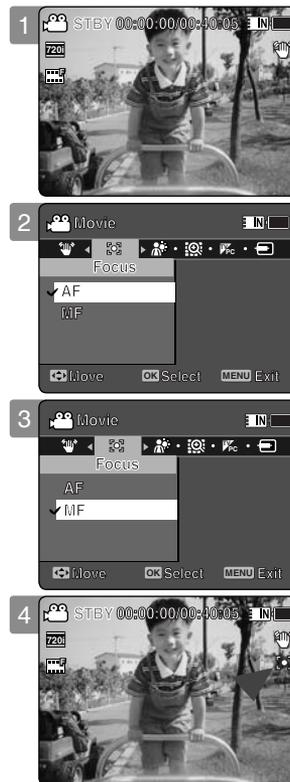
Manual Focus <MF>

Adjust the focus by moving the [Joystick] up/down to zoom in or out manually.

- ◆ When a picture contains objects that are both close and far away from the Sports Camcorder.
- ◆ When a person is enveloped in fog or surrounded by snow.

[Notes]

- ❖ The focus is set to <AF> automatically when the Sports Camcorder is turned off.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the BLC (Backlight Compensation)

The Backlight Compensation function helps to make the subject brighter when the subject is in front of a window or the subject is too dark to distinguish. You can use this function when using the Sports Camcorder in bright or snowy backgrounds.

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

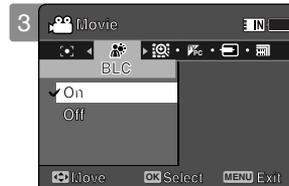
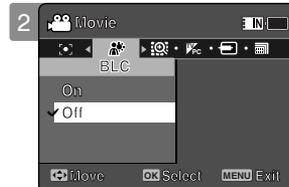
2. Press the [MENU] button.
Move the [Joystick] left / right to select <BLC>.

3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <On>: Set the BLC function.
 - ◆ <Off>: Cancel the BLC function.

4. Press the [MENU] button to exit the menu.
 - ◆ The selected function () icon is displayed.
 - ◆ If you select <Off>, no icon is displayed.

[Notes]

- ❖ The BLC is set to <Off> when the Sports Camcorder is turned off.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

Setting the Digital Zoom

Zooming more than 10x is achieved digitally, up to 100X when combined with optical zoom. The Digital Zoom processes data to enlarge the centre portion of the image to fill the frame. It may produce a less detailed and slightly grainy picture.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
 - Move the [Joystick] left / right to select <Digital Zoom>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <On>: Enables digital zoom. Attempts to zoom in more than 10x will automatically apply digital zooming. (up to 100x)
 - ◆ <Off>: Disables digital zoom. Only optical zoom 10x will be supported for zooming
4. Press the [MENU] button to exit the menu.
 - ◆ When using the digital zoom switch, a digital zoom indicator appears on the screen.

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Recording Options

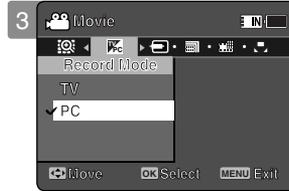
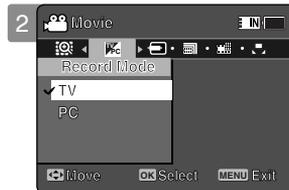
Setting the Record Mode

You can set the proper record mode before starting movie file recording.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
 - Move the [Joystick] left / right to select <Record Mode>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <TV>: The system generates clear images when played back on TV.
 - ◆ <PC>: The system generates clear images when played back on PC.
 - ◆ We recommend copying the file onto a PC or connecting the Sports Camcorder to a TV for a better playback picture.
4. Press the [MENU] button to exit the menu.
 - ◆ If you select <TV>, <i> is displayed with size icon.
 - ◆ If you select <PC>, <p> is displayed with size icon.

[Notes]

- ❖ If <TV> is selected as the Record Mode, the size is set to 720i only.
- ❖ If <PC> is selected as the Record Mode, the size is set to 720p or 352p.
- ❖ When the size is set to 352(352X288), <PC> is automatically selected for movie files recording.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.

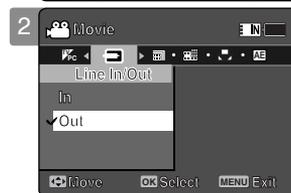


Movie Mode : Setting the Recording Options

Setting the Line In/Out

You can record or play back the contents of the Sports Camcorder onto an external device and vice versa. ➔pages 127~129

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [MENU] button.
Move the [Joystick] left / right to select <Line In/Out>.
3. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <In>: Select this when recording the contents of an external device into the Sports Camcorder.
 - ◆ <Out>: Select this when recording or playing back the contents of the Sports Camcorder onto an external device.
4. Press the [MENU] button to exit the menu.
 - ◆ The Sports Camcorder is set to the selected setting.



[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.

ENGLISH

Movie Mode : Setting the Viewing Options

Deleting Movie Files

You can delete saved movie files.

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

- ◆ The Movie Record screen appears.

2. Press the [PLAY] button or [Joystick(OK)].

- ◆ Switches to Movie Play mode.
- ◆ Move to the desired movie file, using the [Joystick].

Deleting a Movie File in Full Screen-View

3. Press the [DELETE] button on the LCD monitor.

4. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].

- ◆ <OK>: Deletes the selected movie file.
- ◆ <Cancel>: Cancels the deletion.

Deleting Movie Files in Multi-View

3. Move the [W/T] switch to W (WIDE).

- ◆ The screen switches to multi-view.

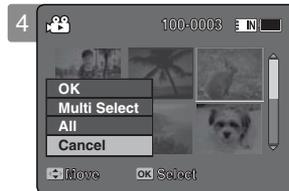
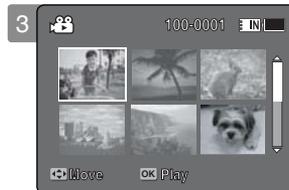
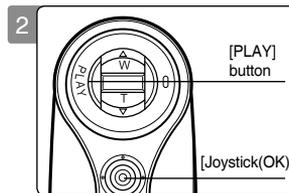
4. Press the [DELETE] button on the LCD monitor.

5. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].

- ◆ <OK>: Deletes the selected movie file using the [Joystick(OK)].
- ◆ <Multi Select>: Multiple movie files can be selected using the [Joystick(OK)].
<✓> indicator appears on the selected files.
Press the [PLAY] button to delete.
- ◆ <All>: All movie files will be deleted.
- ◆ <Cancel>: Cancels the deletion.

[Notes]

- ❖ Locked files will not be deleted.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Viewing Options

Setting the Play Mode

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

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Movie Play mode.
3. Press the [MENU] button.

Move the [Joystick] left / right to select <Play Mode>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <Play One>: The selected movie file will be played.
 - ◆ <Play All>: Plays back from the selected file to the last file.
 - ◆ <Repeat One>: The selected movie file will be played repeatedly.
 - ◆ <Repeat All>: All movie files will be played repeatedly.
5. Press the [MENU] button to exit the menu.

Press the [PLAY] button.

 - ◆ The selected option will be applied.

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



ENGLISH

Movie Mode : Setting the Viewing Options

Locking Movie Files

You can lock saved important movie files from accidental deletion. Locked files will not be deleted unless you release the lock or format the memory.

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

- ◆ The Movie Record screen appears.

2. Press the [PLAY] button or [Joystick(OK)].

- ◆ Switches to Movie Play mode.
- ◆ Move to the desired movie file, using the [Joystick].

Locking a Movie File in Full Screen-View

3. Press the [MENU] button.

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

4. Press the [Joystick(OK)] to lock.

- ◆ The selected movie file is locked.

Locking Movie Files in Multi-View

3. Move the [W/T] switch to W (WIDE).

- ◆ The screen switches to multi-view.

4. Press the [MENU] button.

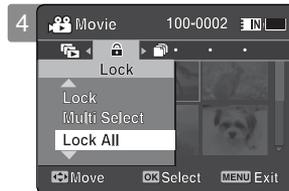
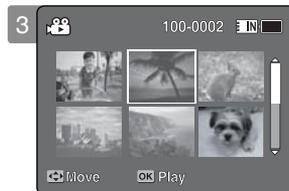
Move the [Joystick] left / right to select <Lock>.

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

- ◆ <Lock>: Locks the selected movie file using the [Joystick(OK)].
- ◆ <Multi Select>: Multiple movie files can be selected using the [Joystick(OK)].
<🔒> indicator appears on the selected files.
Press the [PLAY] button to lock.
- ◆ <Lock All>: All movie files are locked.
- ◆ <Unlock All>: Unlocks all movie files.

[Notes]

- ❖ The <🔒> icon is displayed on the locked file.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



Movie Mode : Setting the Viewing Options

Copying Movie Files

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

1. Insert a memory card in the memory card slot on Sports Camcorder.
2. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
3. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Movie Play mode.
 - ◆ Move to the desired movie file, using the [Joystick].

Copying a Movie File in Full Screen-View

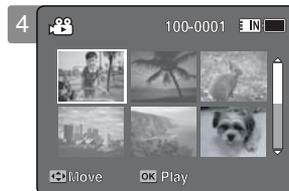
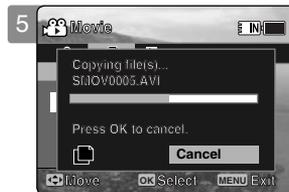
4. Press the [MENU] button.
Move the [Joystick] left / right to select <Copy To>.
5. Press the [Joystick(OK)] to copy.
 - ◆ Copies the selected movie file.

Copying Movie Files in Multi-View

4. Move the [W/T] switch to W (WIDE).
 - ◆ The screen switches to multi-view.
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>: Copies the selected movie file.
 - ◆ <Multi Select>: Multiple movie files can be selected using the [Joystick(OK)].
<✓> indicator appears on the selected files.
Press the [PLAY] button to copy.
 - ◆ <All>: All movie files will be copied.

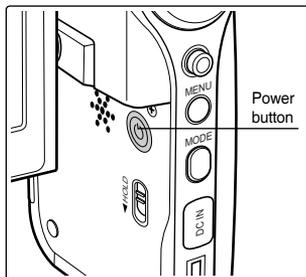
[Notes]

- ❖ The Sports Camcorder copies from the currently-used memory to another. If the internal memory was used, it copies to a memory card.
- ❖ If the memory card is not inserted, you cannot perform the <Copy To> function.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Movie Record mode.



How to set to Photo mode

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



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



2 Photo Mode

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

Photo Mode : Capturing

Capturing Images

You can take a photo image as well as record movie files.

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

- ◆ The Movie Record screen appears.

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

- ◆ The Photo Capture screen appears.

3. Press the [Record / Stop] button to take a photo image.

4. After capturing, press the [POWER] button to turn off the Sports Camcorder to prevent battery power consumption.

[Notes]

- ❖ If the battery is low, the flash will not operate automatically.
- ❖ In order to take pictures on the memory card, insert a memory card and then set the storage type to <External>. ➡page 97

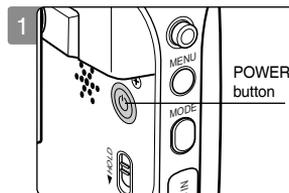


Photo Mode : Capturing

Zooming In and Out

Zooming lets you change the size of the subject captured in a scene. You can take advantage of the 10x optical electro motion zoom lens.

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

- ◆ The Movie Record screen appears.

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

- ◆ The Photo Capture screen appears.



Slide the [W/T] switch up to zoom out.

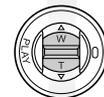
- The subject's size is reduced, and you can take a picture as if you were far away from the subject.
- On the zoom indicator in the LCD screen, the arrow moves to W.
- The smallest rate of zoom out is the default rate (original resolution of the subject).



Slide the [W/T] switch down to zoom in.

- The subject is larger, and you can take a picture as if you were close to the subject.
- On the zoom indicator in the LCD screen, the arrow moves to T.
- The largest optical zoom ratio is 10x, which is the biggest among the basic zoom.

Zoom Out



Zoom In



[Notes]

- ❖ Frequent use of zooming may result in higher battery power consumption.
- ❖ You can take advantage of 10x digital zoom as well as 10x optical zoom for a total of 100x zoom.
- ❖ Optical zoom preserves the image quality.

Photo Mode : Viewing

Viewing Photo Files on the LCD monitor

It is handy and practical to view photos using the LCD monitor in locations such as in a car, indoors, or outdoors.

1. Press the **[POWER]** button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the **Photo** mode by pressing the **[MODE]** button.
 - ◆ The Photo Capture screen appears.
3. Press the **[PLAY]** button or **[Joystick(OK)]**.
 - ◆ Switches to Photo View mode.
4. Move the **[Joystick]** left / right to find the photo you want to view.
 - ◆ Each movement of the joystick goes to the previous / next photo.

[Notes]

- ❖ If there is no file stored to view, the message <No Files...> appears.
- ❖ Moving the [Joystick] right at the last photo will move to the first photo.
- ❖ Moving the [Joystick] left at the first photo will move to the last photo.
- ❖ Moving the [Joystick] left / right for more than 1 second will start fast search.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.

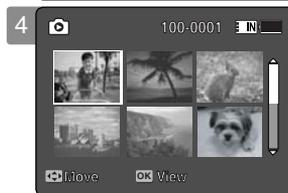


Photo Mode : Viewing

Viewing Multiple Photo Files

Using the [W/T] switch in Photo View mode, you can display multiple images on one LCD screen.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [PLAY] button or [Joystick(OK)] and slide the [W/T] switch to W(WIDE).
 - ◆ The Multi-view screen appears.
4. Move the [Joystick] to the left/ right/ up/ down to find the photo file you want to view.
5. Press [PLAY] button or [Joystick(OK)] to view the photo file you want.
 - ◆ The full screen is displayed.



[Notes]

- ❖ If there is no file stored to view, the message <No Files...> appears.
- ❖ Display time may vary depending on the picture size.
- ❖ The image edited or turned in Image Viewer programme on your PC may not be displayed.

Photo Mode : Setting the Capturing Options

Setting the White Balance

The White Balance allows calibration of the picture for accurate colour display in different lighting conditions. We recommended setting the white balance prior to any photo capturing.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.
Move the [Joystick] left / right to select <White Balance>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ To set Custom, frame your Sports Camcorder on a white area (such as a wall), filling the LCD monitor with white colour. Press the [Joystick(OK)] to set.

Auto	Automatically sets according to the shooting environment.
Daylight	Adjusts the colour according to daylight/indoor, outdoor light.
Fluorescent	Suitable for a fluorescent light environment.
Tungsten	Suitable for an incandescent light environment.
Custom	Adjusts the white balance based on the shooting environment.

5. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.
 - ◆ If <Auto> is selected, no icon will be displayed.

[Notes]

- ❖ When taking pictures outdoors, <Auto> setting will allow you to obtain the best results.
- ❖ As the lighting condition changes, set the appropriate white balance before taking a picture.
- ❖ The subject used for <Custom> should be white colour. If not, the colour balance will not be natural.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



Photo Mode : Setting the Capturing Options

Setting the Program AE (Programmed Auto Exposure)

Program AE modes are preset automatic exposure modes based upon an internal computer programme. Program AE allows you to adjust the aperture setting to suit different conditions.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.
Move the [Joystick] left / right to select <Program AE>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

Auto	Auto balances between the subject and background to get the best result. The shutter speed automatically varies from 1/50 to 1/250 per second depending on the scene.
Sports	For recording fast-moving people or objects. It is suitable for sports events and recording outside in the car.
Spotlight	Compensates for a subject that appears too bright under strong direct light such as spotlight. It is suitable for concerts and school performances.
Sand/Snow	Use when the light is very strong such as on the beach or in the snow.

5. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.
 - ◆ If you select <Auto>, no icon is displayed.

[Note]

- ◆ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



Photo Mode : Setting the Capturing Options

Setting the Effect

You can apply various effects to your photos.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.
Move the [Joystick] left / right to select <Effect>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

Off	Cancels the <Effect>.
Art	Adds artistic effects to your photo file.
Mosaic	A mosaic overlay appears on your photo file.
Sepia	The picture is displayed in sepia colour similar to that of an old photograph.
Negative	Reverses the colours, creating the look of a negative.
Mirror	This mode cuts the picture in half using a mirror effect.
B&W	Changes the images into Black and White.

5. Press the [MENU] button to exit the menu.
 - ◆ The selected effect and icon are displayed.
 - ◆ If you select <Off>, no icon is displayed.

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.

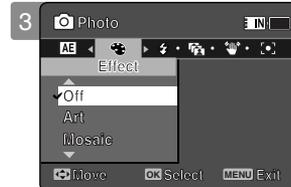


Photo Mode : Setting the Capturing Options

Setting the Flash

Flash is very useful not only for brighter subjects at night, but also in daytime when there is not enough lighting on the subject, such as in a shadow, indoors, and in backlight situations.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.
 - Move the [Joystick] left / right to select <Flash>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

On	Flash will go on.
Auto	Flash will be set automatically according to lighting conditions.
Off	Flash will not come on. Select this option when you cannot use the flash in locations such as a museum.

5. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.

[Notes]

- ❖ If the battery is low, the flash will not operate automatically.
- ❖ Flash is not as effective as a normal strobe light.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



Photo Mode : Setting the Capturing Options

Setting the Continuous Shot

You can take a series of pictures continuously with just one press of the shutter.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.

Move the [Joystick] left / right to select <Continuous Shot>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <Off>: Disables Continuous Shot and takes one photo at a time.
 - ◆ <3 shots>: Enables Continuous Shot and takes 3 photos in a row.
5. Press the [MENU] button to exit the menu.
 - ◆ The selected function icon is displayed.
 - ◆ If <Off> is selected, no icon will be displayed.

[Notes]

- ❖ When you set <Continuous Shot>, you cannot use the flash.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



Photo Mode : Setting the Capturing Options

Setting the EIS (Electronic Image Stabilizer)

The Electronic Image Stabilizer is a function that compensates for hand shake and other movements while taking pictures.

EIS provides more stable photo when:

- ◆ Photo capturing while zooming
- ◆ Capturing small objects
- ◆ Capturing while walking or moving
- ◆ Capturing through the window of a moving vehicle

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

- ◆ The Movie Record screen appears.

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

- ◆ The Photo Capture screen appears.

3. Press the [MENU] button.

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

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

- ◆ <On>: Enables EIS function.
- ◆ <Off>: Disables EIS function.

5. Press the [MENU] button to exit the menu.

- ◆ If you select <On>, the EIS icon () is displayed.
- ◆ If you select <Off>, no icon is displayed.

[Note]

- ◆ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.

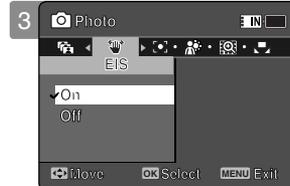


Photo Mode : Setting the Capturing Options

Setting the Focus

Select an appropriate focus method for the best results.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.

Move the [Joystick] left / right to select <Focus>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <AF>: Set the focus automatically.
 - ◆ <MF>: Set the focus manually.
5. Press the [MENU] button to exit the menu.
 - ◆ If you select the <MF>, the icon () is displayed.
 - ◆ If you select the <AF>, no icon is displayed.

Manual Focus <MF>

Adjust the focus by moving [Joystick] up/down to zoom in or out manually.

- ◆ When a picture has subjects close or distant to the Sports Camcorder
- ◆ When a person is enveloped in fog or surrounded by snow

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.

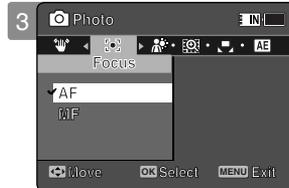


Photo Mode : Setting the Capturing Options

Setting the BLC (Backlight Compensation)

The Backlight Compensation function helps to make the subject brighter when the subject is in front of a window or the subject is too dark to distinguish. You can use this function when using the Sports Camcorder in the bright backgrounds including snow scenes.

1. Press the **[POWER]** button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the **[MODE]** button.
 - ◆ The Photo Capture screen appears.
3. Press the **[MENU]** button.
Move the **[Joystick]** left /right to select <BLC>.
4. Move the **[Joystick]** up / down to select an option, and then press the **[Joystick(OK)]**.
 - ◆ <On>: Set the BLC function.
 - ◆ <Off>: Cancel the BLC function.
5. Press the **[MENU]** button to exit the menu.
 - ◆ The selected function icon (🔧) is displayed.
 - ◆ If you select <Off>, no icon is displayed.

[Notes]

- ❖ The BLC is set to <Off> when the Sports Camcorder is turned off.
- ❖ While the menu screen is displayed, pressing the **[Record / Stop]** button will move to Photo Capture mode.

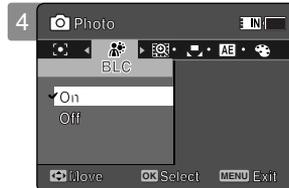
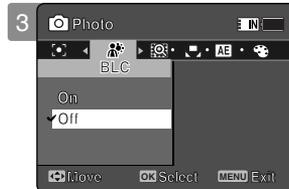


Photo Mode : Setting the Capturing Options

Setting the Digital Zoom

As well as the 10x optical zoom, this Sports Camcorder supports 10x digital zoom which produces a total of 100x zoom. Exceeding the optical zoom limit will automatically engage the digital zoom when available. Digital zoom may produce a grainy picture.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [MENU] button.
Move the [Joystick] left /right to select <Digital Zoom>.
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <On>: Enables digital zoom. Attempts to zoom in more than 10x will automatically apply digital zooming.(up to 100x)
 - ◆ <Off>: Disables digital zoom. Only optical zoom 10x will be supported for zooming
5. Press the [MENU] button to exit the menu.
 - ◆ When using the digital zoom switch, a digital zoom indicator appears on the screen.

[Note]

- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



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Photo Mode : Setting the Viewing Options

Deleting Photo Files

You can delete saved photo files.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Photo View mode.
 - ◆ Move to the desired photo file, using the [Joystick].

Deleting a Photo File in Full Screen-View

4. Press the [DELETE] button on the LCD monitor.
5. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ <OK>: Deletes the selected photo file using the [Joystick(OK)].
 - ◆ <Cancel>: Cancels the deletion.
6. Press the [MENU] button to exit the menu.

Deleting Photo Files in Multi-View

4. Slide the [W/T] switch to W (WIDE).
 - ◆ The screen switches to multi-view.
5. Press the [DELETE] button on the LCD monitor.
6. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ <OK>: Deletes the selected photo file.
 - ◆ <Multi Select>: Multiple photo files can be selected using the [Joystick(OK)].
 - <✓> indicator appears on the selected files. Press the [PLAY] button to delete.
 - ◆ <All>: All photo files will be deleted.
 - ◆ <Cancel>: Cancels the deletion.

[Notes]

- ❖ Locked files will not be deleted.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.

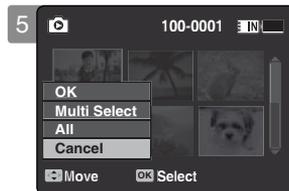
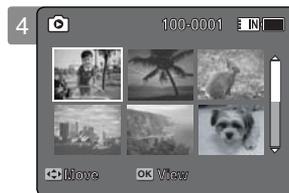
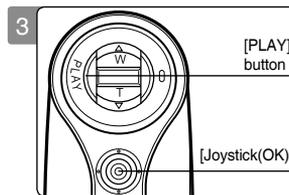


Photo Mode : Setting the Viewing Options

Setting the Slide show

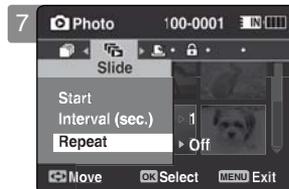
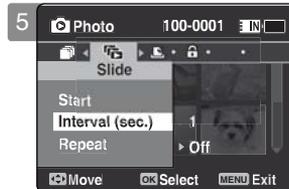
You can set a slide show, and also set the interval and repetition options for the slide show.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Photo View mode.
 - ◆ Move to the desired photo file, using the [Joystick].
4. Press the [MENU] button.

Move the [Joystick] left / right to select <Slide>.
5. Select <Interval (sec.)> by moving the [Joystick] up / down and then press the [Joystick(OK)].
6. Set the interval by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ Interval range: 1 ~ 10 seconds.
7. Select <Repeat> by moving the [Joystick] up / down and then press the [Joystick(OK)].
8. Set the repeat option by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ <Off>: Sets not to repeat the slide show.
 - ◆ <On>: Sets to repeat the slide show.
9. Select <Start> by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ Slide show starts. To stop the slide show, press the [Joystick(OK)].

[Notes]

- ❖ The interval between photos may vary depending on the size of the photo.
- ❖ Slide show starts from the current photo displayed.
- ❖ Slide show cannot start from a damaged photo file. Damaged photos will be skipped during the slide show.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



ENGLISH

Photo Mode : Setting the Viewing Options

Setting the DPOF (Digital Print Order Format) Function

You can automatically print a photo file recorded with a printer that supports DPOF.

Setting the DPOF is only available when using a memory card.

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 *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
4. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Photo View mode.
 - ◆ Move to the desired photo file, using the [Joystick].

Setting the DPOF in Full Screen-View

5. Press the [MENU] button.
Move the [Joystick] left / right to select <DPOF>.
6. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ <Copies>: Move the [Joystick] up / down to select the number of copies you want to print and press the [Joystick(OK)]. (copy range: 0 ~ 30)
 - ◆ <Off>: Cancels DPOF setting.
7. Press the [MENU] button to exit the menu.

Setting the DPOF in Multi-View

5. Slide the [W/T] switch to W (WIDE).
 - ◆ The screen switches to multi-view.
6. Press the [MENU] button.
Move the [Joystick] left / right to select <DPOF>.
7. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ <Copies>: Move the [Joystick] up / down to select the number of copies you want to print and press the [Joystick(OK)]. (copy range: 0 ~ 30)
 - ◆ <Set All>: All photo files will be marked with DPOF settings.
 - ◆ <Reset All>: All photo files will be resetted.
8. Press the [MENU] button to exit the menu.

[Notes]

- ◆ <DPOF> icon is displayed on the photos with DPOF setup.
- ◆ Refer to page 130 for further details about printing DPOF files.
- ◆ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.

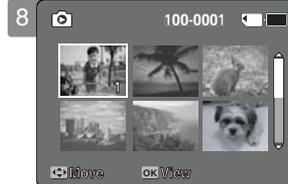


Photo Mode : Setting the Viewing Options

Locking Photo Files

You can lock important saved photo files from accidental erasure. Locked files will not be deleted unless you release the lock or format the memory.

1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *Photo* mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
3. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Photo View mode.
 - ◆ Move to the desired photo file, using the [Joystick].

Locking a Photo File in Full Screen-View

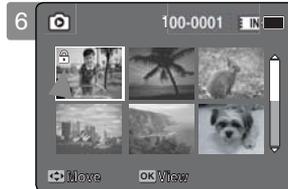
4. Press the [MENU] button.
Move the [Joystick] left / right to select <Lock>.
5. Press the [Joystick(OK)].
 - ◆ Locks the selected photo file.
 - ◆ Press the [MENU] button once again to set unlock.

Locking Photo Files in Multi-View

4. Slide the [W/T] switch to W (WIDE).
 - ◆ The screen switches to multi-view.
5. Press the [MENU] button.
Move the [Joystick] left / right to select <Lock>.
6. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
 - ◆ <Lock>: Locks the selected photo file using the [Joystick(OK)].
 - ◆ <Multi Select>: Multiple photo files can be selected using the [Joystick(OK)]. <🔒> indicator appears on the selected files. Press the [PLAY] button to lock.
 - ◆ <Lock All>: All photo files are locked.
 - ◆ <Unlock All>: Unlocking all photo files.

[Notes]

- ❖ The <🔒> icon is displayed on the locked file.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



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Photo Mode : Setting the Viewing Options

Copying Photo 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 **Photo** mode by pressing the [MODE] button.
 - ◆ The Photo Capture screen appears.
4. Press the [PLAY] button or [Joystick(OK)].
 - ◆ Switches to Photo View mode.
 - ◆ Move to the desired photo file, using the [Joystick].

Copying a Photo File in Full Screen-View

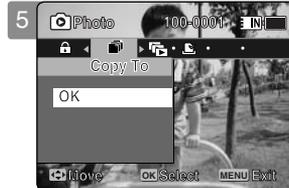
5. Press the [MENU] button.
Move the [Joystick] left / right to select <Copy To>.
6. Press the [Joystick(OK)].
 - ◆ Copies the selected photo file.

Copying Photo Files in Multi-View

5. Slide the [W/T] switch to W (WIDE).
 - ◆ The screen switches to multi-view.
6. Press the [MENU] button.
Move the [Joystick] left / right to select <Copy To>.
7. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
 - ◆ <OK>: Copies the selected photo file.
 - ◆ <Multi Select>: Multiple photo files can be selected using the [Joystick(OK)].
 - <✓> indicator appears on the selected files. Press the [PLAY] button to copy.
 - ◆ <All>: All photo files will be copied.

[Notes]

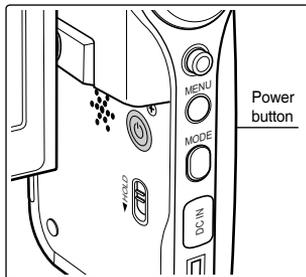
- ❖ The Sports Camcorder copies from the currently-used memory to another. If the internal memory was used, it copies to a memory card.
- ❖ If the memory card is not inserted, you cannot perform the <Copy To> function.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Photo Capture mode.



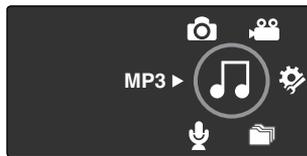
3 MP3 Mode

How to set to MP3 mode

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



2. Set the **MP3** mode by pressing the [MODE] button.



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

MP3 Mode : Storing MP3 Files in the Sports Camcorder

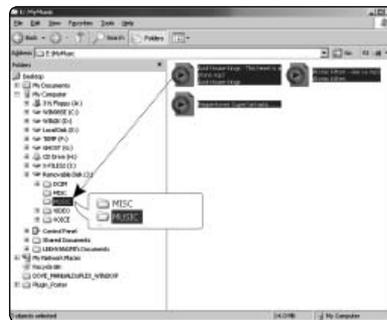
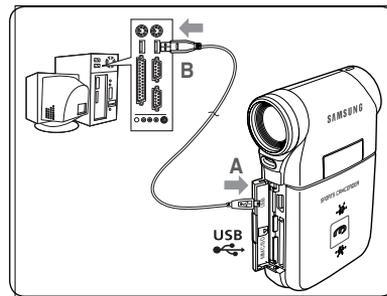
Copying MP3 Files to the Sports Camcorder

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

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 MUSIC 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.
- ❖ You cannot create a new folder on your Sports Camcorder.

[Notes]

- ❖ You can copy a folder on your Sports Camcorder.
- ❖ To see MP3 file capacity with regards to the Sports Camcorder'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.

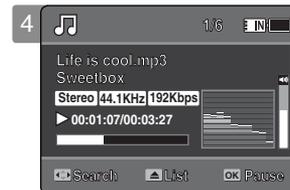
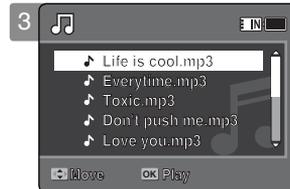


MP3 Mode : Playing

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 an 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.
- ◆ During playback, press and hold **[Joystick(OK)]** left / right to forward or reverse search the currently playing MP3 file.

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 the language set is not the same as the MP3 file Tag information language, the Artist information 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.
- ◆ The Sports Camcorder only supports MP3 file format.
- ◆ Damaged or non-standard MP3 files may not display properly or fail to play back.
- ◆ Playback will fail to start if the first file is damaged.
- ◆ The title may not be displayed if the language is not supported or in Chinese.
- ◆ 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.
- ◆ Supported bitrates for MP3 files is 8Kbps-320Kbps and VBR.

ENGLISH

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 the desired MP3 file, using the [Joystick].

Deleting MP3 Files in MP3 playlist

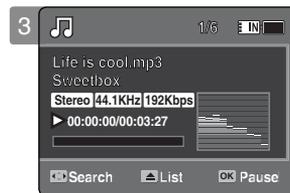
3. Press the [DELETE] button on the LCD monitor in pause mode. Select an option by moving the [Joystick] up / down and then press the [Joystick(OK)].
 - ◆ <OK>: Deletes the selected MP3 file.
 - ◆ <Multi Select>: Multiple MP3 files can be selected using the [Joystick(OK)].
<✓> indicator appears on the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

Deleting an 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.

[Notes]

- ◆ Locked files will not be deleted.
- ◆ You cannot access the menu during playback.



MP3 Mode : Setting the MP3 Play Options

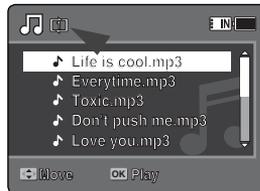
Setting the Repeat Play

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>.
 - ◆ <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.
 - ◆ The selected function icon is displayed.
 - ◆ If you select <Off>, no icon is displayed.

[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.
- ❖ You cannot access the menu during playback.



MP3 Mode : Setting the MP3 Play Options

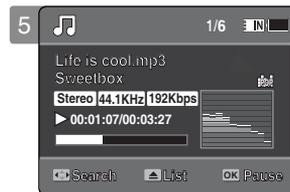
Setting the Equalizer

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>.
 - ◆ <Off> / <Pop> / <Classic> / <Jazz>
4. Select an option by moving the [Joystick] up / down and then press the [Joystick (OK)].
 - ◆ The selected option is applied.
 - ◆ If you select <Off>, no icon is displayed.
5. Press the [MENU] button to exit the menu.
 - ◆ The selected option is applied.
 - ◆ If you select <Off>, no icon is displayed.

[Note]

- ❖ You cannot access the menu during playback.



MP3 Mode : Setting the MP3 Play Options

Locking MP3 Files

You can lock saved important MP3 files from accidental deletion. Locked files will not be deleted unless you release the lock 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 the 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 an 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.

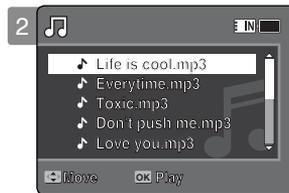
Move the [Joystick] left / right to select <Lock>.

5. Press the [Joystick(OK)].

- ◆ The selected MP3 file is locked.

[Notes]

- ❖ The <  > icon is displayed on the locked file.
- ❖ You cannot access the menu during playback.



ENGLISH

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 the 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>: Copies 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 copied.

Copying an 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)].
 - ◆ Copies the selected MP3 file.

[Notes]

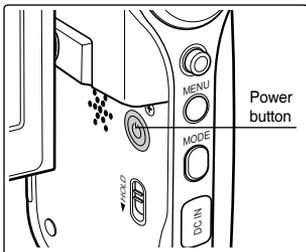
- ◆ The Sports Camcorder copies from the currently-used memory to another. If the internal memory is being used, it copies to a memory card.
- ◆ If the memory card is not inserted, you cannot perform the <Copy To> function.
- ◆ You cannot access the menu during playback.



4 Voice Recorder Mode

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.



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

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.

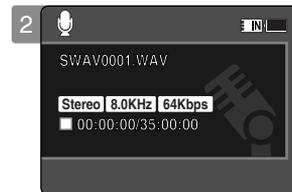
2. Set the *Voice Recorder* mode by pressing the [MODE] button.

- ◆ 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

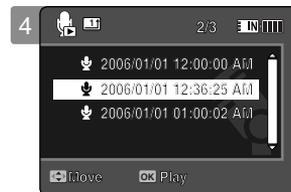
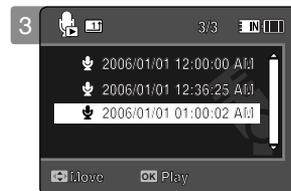
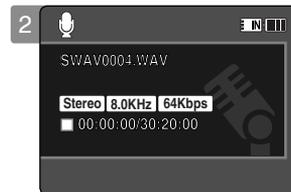
Playing Voice Files

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 you record the voice file after you set date&time, the date&time displayed on the LCD monitor indicates the date & time you started to record.
- ❖ When the earphones, Audio/Video cable or External Camera Module cable is connected to the Sports Camcorder, the built-in speaker will not operate.
- ❖ 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.

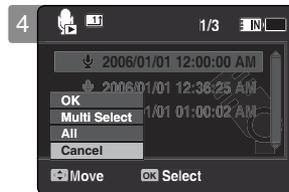
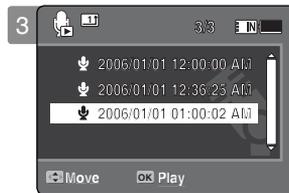


Voice Recorder Mode : Setting the Voice Play Options

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 the 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]

- ❖ Locked files will not be deleted.
- ❖ 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

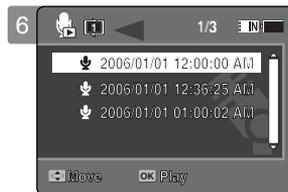
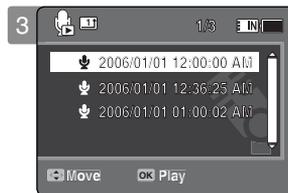
Setting the Play Mode

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.
 - ◆ Move to the desired voice file, using the [Joystick].
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>: Plays back from the selected file to the last file.
 - ◆ <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 function icon is displayed.

[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

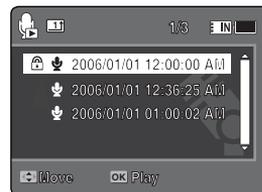
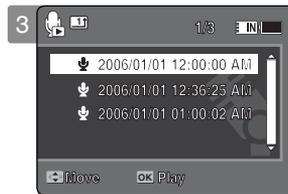
Locking Voice Files

You can lock saved important voice files from accidental erasure. Locked files will not be deleted unless you release the lock 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 the 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

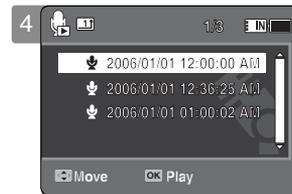
Copying Voice Files

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 the 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>: Copies 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.

[Notes]

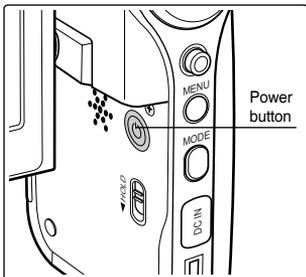
- ❖ The Sports Camcorder copies from the currently-used memory to another. If the internal memory was used, it copies to a memory card.
- ❖ If a memory card is not inserted, you cannot perform the <Copy To> function.
- ❖ You cannot access the menu during voice playback.
- ❖ While the menu screen is displayed, pressing the [Record / Stop] button will move to Voice Record mode.



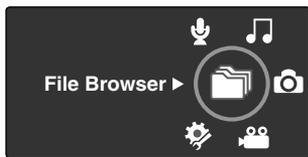
5 Using File Browser

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.



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

Using File Browser

Viewing Files or Folders

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

[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].

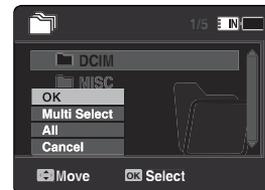
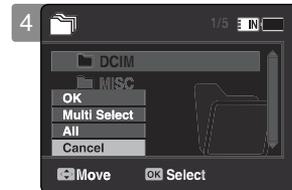
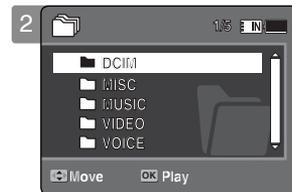
- ◆ Move the [Joystick] up/down and press the [Joystick(OK)] repeatedly until the file or folder you want appears.

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 deleted.
- ◆ **<Multi Select>**: Multiple files or folders will 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 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 will not be deleted.
- ❖ The folder with a locked file will not be deleted. Only unlocked files will be deleted.
- ❖ If you move the [Joystick] left, the previous folder screen appears.



Using File Browser

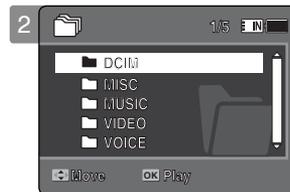
Locking Files

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>.
 - ◆ <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.
5. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].
 - ◆ <Lock>: The selected file is locked.
 - ◆ 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.

[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>: Copies 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 Camcorder 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 Sports Camcorder returns 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 / 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.>.

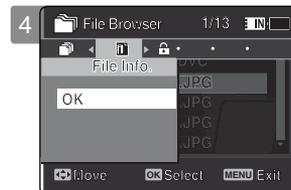
5. Press the [Joystick(OK)] to view the file information.

- ◆ The screen with file name, size, date, locked state appears.

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

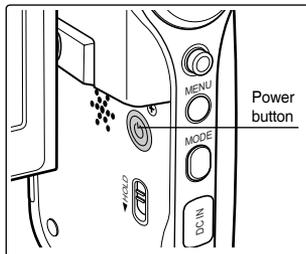
[Notes]

- ❖ You cannot view folder information. You can only view file information.
- ❖ If you move the [Joystick] left, the previous folder screen appears.

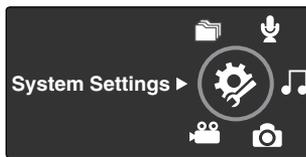


How to set to System Settings mode

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



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



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.

Setting the Sports Camcorder : Setting Memory

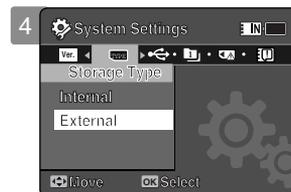
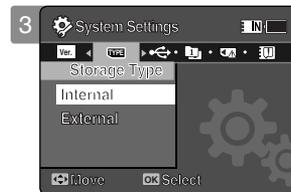
Selecting the Storage Type

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. ➡pages 31, 32

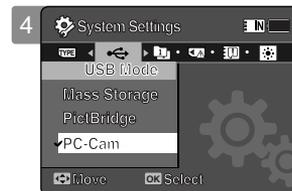
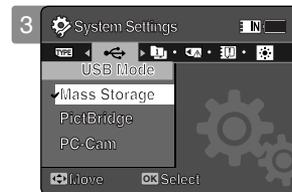


Setting the Sports Camcorder : Setting USB Mode

Setting USB Mode

Before connecting your Sports Camcorder to a computer or a printer via USB, please set the proper USB mode.

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

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.>.

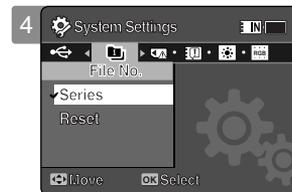
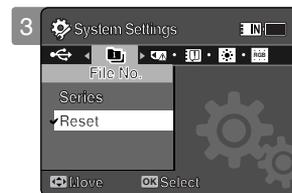
4. Move the [Joystick] up / down to select an option, and then press the [Joystick(OK)].

- ◆ **<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.

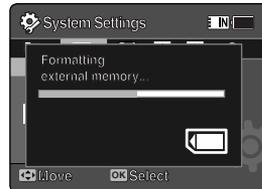
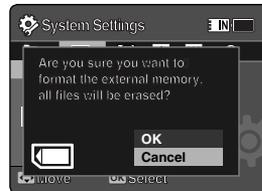
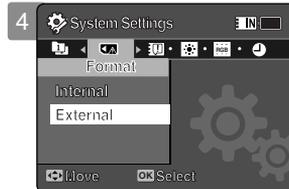
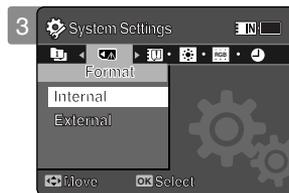
When the [Joystick(OK)] is pressed, the pop-up message appears.
Select <OK> or <Cancel> by moving the [Joystick] up / down and then press the [Joystick(OK)].
5. After you finish setting, move to the desired mode by pressing the [MODE] button.

[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.

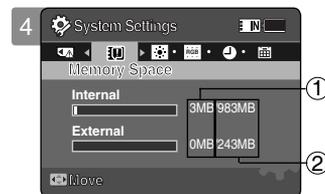
2. Set the *System Settings* mode by pressing the [MODE] button.

- ◆ 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]

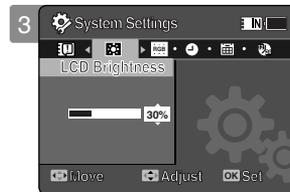
- ❖ System requires a small portion of memory space, actual storage capacity may differ from the printed memory capacity.
- ❖ If the memory card is not inserted, <External> option is not displayed
- ❖ The OSD indicators of this manual are based on the model VP-X210L.

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]

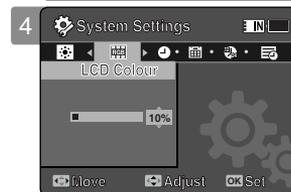
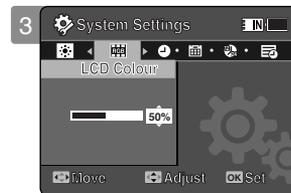
- ❖ A brighter LCD screen setting consumes more battery power.
- ❖ Adjust the LCD brightness when the ambient lighting is too bright and the monitor is hard to see.
- ❖ LCD Brightness does not affect the brightness of images to be stored.

Setting the Sports Camcorder : Adjusting the LCD monitor

Adjusting the LCD Colour

You can adjust the colour 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 Colour>.
4. Move the [Joystick] up / down to adjust the LCD colour, and then press the [Joystick(OK)].
 - ◆ You can adjust the LCD colour 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

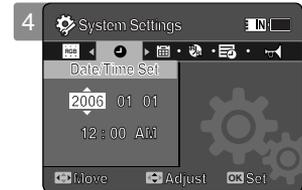
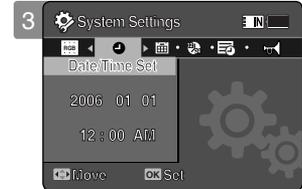
Setting Date&Time

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.

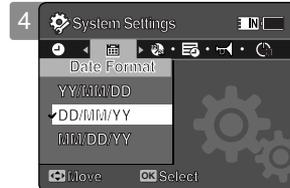


Setting the Sports Camcorder : Adjusting Date/Time

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.

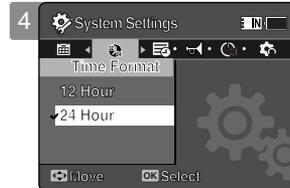


Setting the Sports Camcorder : Adjusting Date/Time

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.

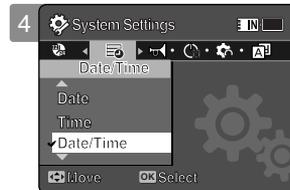
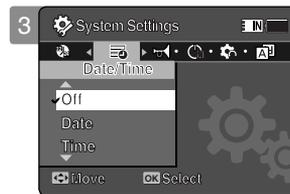


Setting the Sports Camcorder : Adjusting Date/Time

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>: The 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 or Photo 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.

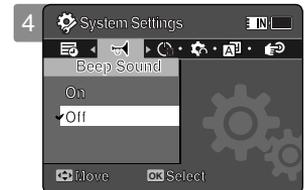
- ◆ The System Settings screen appears.

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.

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.

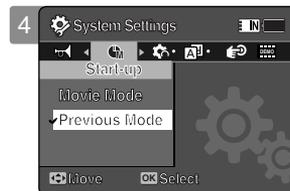
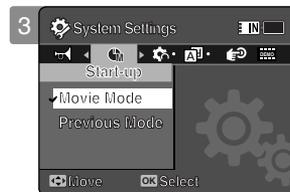
1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.

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]

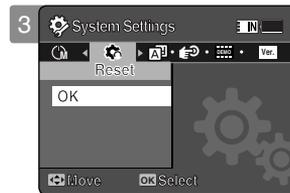
- ❖ Make sure that the start-up mode is set to the selected mode when turning on the Sports Camcorder again.

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.

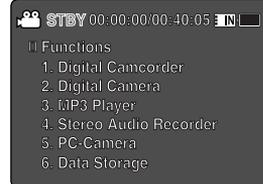


Setting the Sports Camcorder : Setting the System Settings

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]

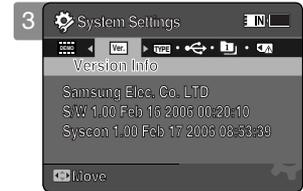
- ❖ If you set the Demonstration function, it operates only in Movie Record mode.

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 movie files to your PC.

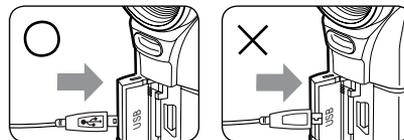
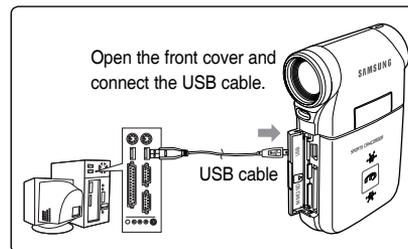
Before your start!

You can copy the files when <USB Mode> sets to <Mass Storage> ➡page 98

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.
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.



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.

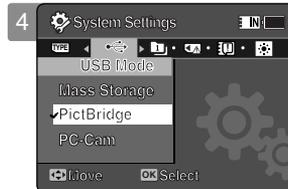
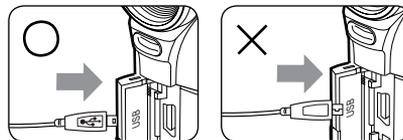
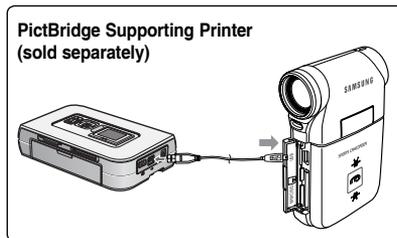
1. Press the [POWER] button to turn on the Sports Camcorder.
 - ◆ The Movie Record screen appears.
2. Set the *System Settings* mode by pressing the [MODE] button.
 - ◆ The System Settings screen appears.
3. Move the [Joystick] left / right to select <USB Mode>.
4. Move the [Joystick] up / down to select <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: 01 ~ 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.



Setting the Sports Camcorder : Using USB Mode

Using the PC Cam Function

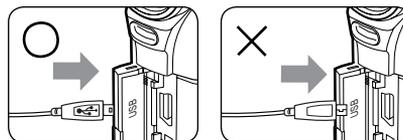
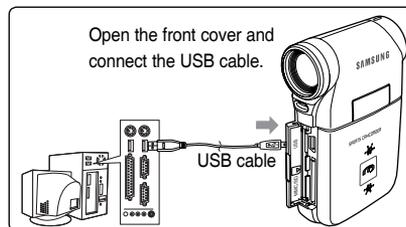
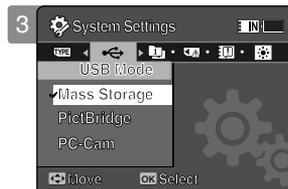
You can use your Sports Camcorder as a PC camera for video chatting, video conference and other PC camera applications.

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 programmes 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.



7

Using the External Camera Module

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- ◆ 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 :

Recording with the External Camera Module

Recording Movie 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 is 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.

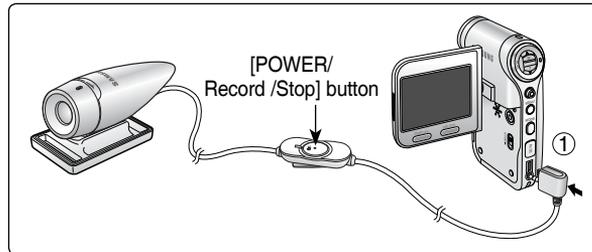
- ◆ LED lamp lights in red.
- ◆ Press the [Record /Stop] button of the Sports Camcorder to start recording.

5. Press the [POWER/Record /Stop] button of the External Camera Module to stop recording.

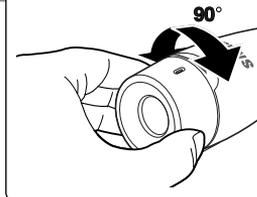
- ◆ Recording stops and the Sports Camcorder is ready again.

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 is turned off.
- ◆ If you press the [POWER] button of the Sports Camcorder, only the Sports Camcorder is turned off.



3 90 degrees (max.)

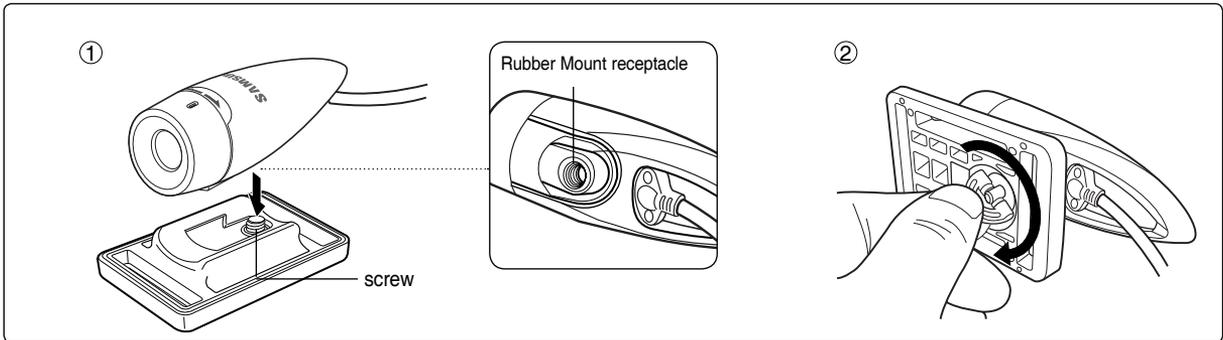


[Notes]

- ❖ 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.

ENGLISH Using the External Camera Module : 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]

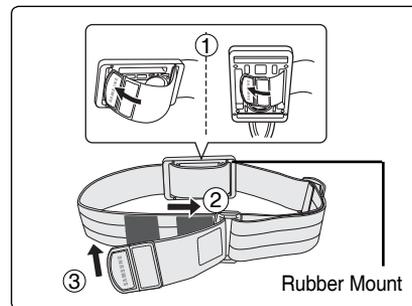
- ❖ Dropping the External Camera Module or bumping it to other objects may cause device failure. When using the device, you must attach it to the rubber mount, and be careful not to drop or strike it.

Using the External Camera Module : Wearing the External Camera Module

Using the Long Mount Band

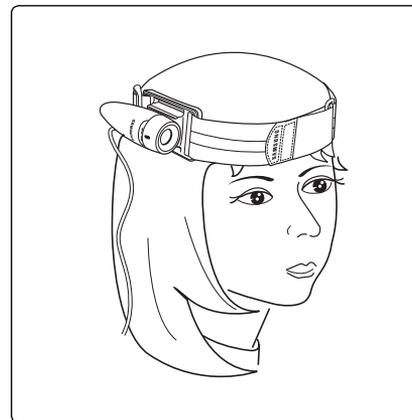
While the Sports Camcorder is inside your carrying case or backpack, you can attach the External Camera Module mounted on the Rubber Mount with help of the Long Mount Band.

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.
- ❖ 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.



8

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 colour	1024x768 dots 24-bit colour	800x600 dots 16-bit colour	1024x768 dots 24-bit colour
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 movie 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 this 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

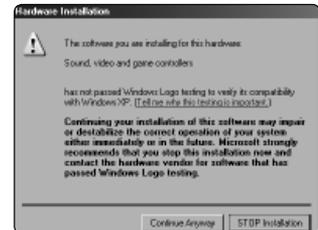
Setting up Ulead Video Studio

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]

- ❖ Please install by using the Software CD that came with this Sports Camcorder.
We do not guarantee compatibility for different CD versions.
- ❖ 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 a USB Cable

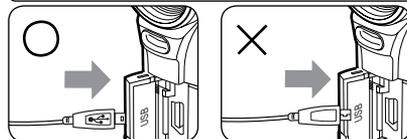
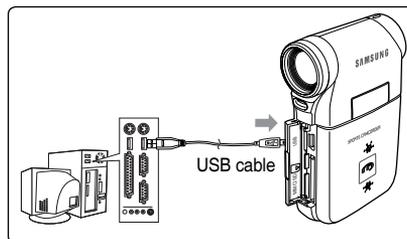
Connect to a PC with the provided USB cable. You can view your files on your PC.

Before your start!

You can transfer the files when <USB Mode> sets to <Mass Storage> ➤page 98

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.



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

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 programme or try to disconnect / connect the communication cable (USB cable) again.

[Notes]

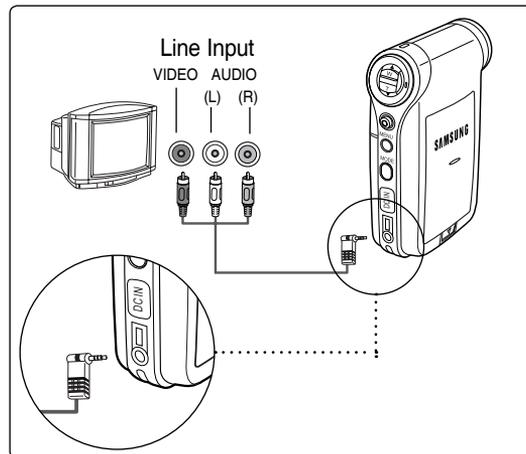
- ❖ Multiple USB devices connected to a PC or using USB hubs may cause communication / installation errors with the Sports Camcorder.
- ❖ Refer to page 123 for PC recommendations on USB use. Some PCs meeting the requirements may not support proper USB operation due to various reasons. Please refer to 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 Camcorder 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 colours 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>, <AV 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]

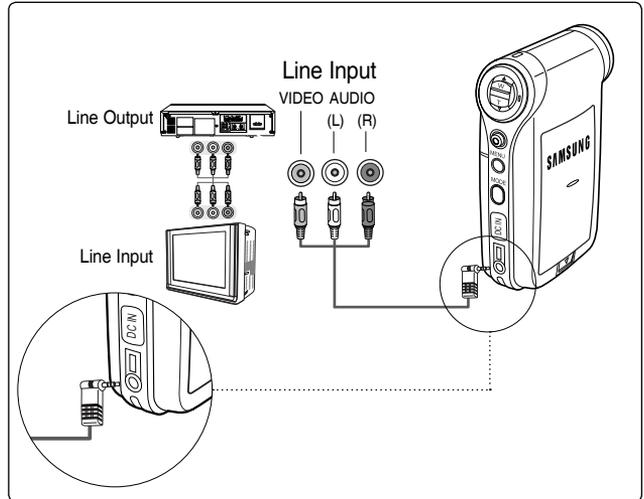
- ❖ You can play back photo files as well as movie files.
- ❖ When you connect your Sports Camcorder to a TV, some indicators may not partly appear.
- ❖ If you wish to input/output an image from another device to the Sports Camcorder, you must first set <Line In/out> in movie mode. ➡page 51

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 colours 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]

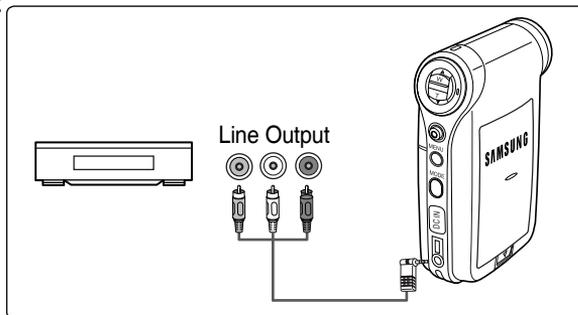
- ❖ You can play back photo files as well as the movie files.
- ❖ If you wish to input/output an image from another device to the Sports Camcorder, you must first set <Line In/out> in movie mode. ➔page 51

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 colours 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, playback 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 packs 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.

ENGLISH

Maintenance : Cleaning and Maintaining the Sports Camcorder

Using the Sports Camcorder Abroad

- ❖ Each country or region has its own electric and colour 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.

Colour 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 PAL-compatible and have the appropriate Audio / Video ports. Otherwise, you may need to use a separate Video Format Transcoder (PAL-NTSC 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.
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 movie file is corrupted.	Delete the corrupted file.

✦ If these instructions do not solve your problem, contact your nearest Samsung dealer or authorized service centre/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
Colour balance of picture is not natural	White balance adjustment is required	Set proper white balance, pages 43, 61
Digital zoom does not work	The effect(Digital special effect) is applied	Turn off the effect(Digital special effect), pages 45, 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, pages 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 remaining 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 movie image	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

720x576
352x288

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 Colour

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 /
Українська /
Svenska

Auto Shut off

Off
5 Minutes

Demonstration

Off
5 Minutes
Play Now

Version Info

Specifications

Model Name		VP-X205L/X210L/X220L
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 (VP-X205L)
		1GB (VP-X210L)
		2GB (VP-X220L)
	External memory	SD
MMC		
CCD Pixel		1/6 inch CCD, 800K(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
Connectors		
USB		Mini-B type (USB 2.0 High Speed)
DC Power In connector		Proprietary 3 pins connector
Multi jack	Earphones	∅ 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-ion Polymer Battery Pack), 4.8V (AC Adapter)
Power Consumption		2.8W (LCD ON)
Dimensions (WxHxD)		61.3mm x 93.6mm x 30.3mm (Including the Battery Pack)
Weight		150g
Built-in Microphone		Omni-directional condenser microphone

Specifications

Model Name	VP-X205L/X210L/X220L
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	70 mm x 29.7 mm x 59.1 mm
Weight	85.1g

Model Name	XC-L2P
External CMOS Camera	
CMOS Pixel	1/3 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)	94.5mm x 34.7mm x 33mm
Weight	96g
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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Power Sources (United Kingdom Only)

The plug used on this product is a unitary transformer plug and is designed specifically for this Comcorder it must never be replaced or removed with any other type of plug.



UNITED KINGDOM



REPUBLIC OF IRELAND

This Samsung product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should return the product to the retailer from whom it was purchased.

However, Samsung Authorised Dealers and Authorised Service Centres in other EC Countries will comply with the warranty on the terms issued to purchasers in the country concerned. In case of difficulty, details of our Authorised Service Centres are available from:

Samsung Electronics U.K. Ltd.
Unit C, Stafford Park 12
Telford, Shropshire
TF3 3BJ
The United Kingdom
Tel: 0870 242 0303, Fax: 01952 297617
www.samsung.com/uk

■ WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced.
2. Samsung's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
3. Warranty repairs must be carried out by Authorised Samsung Dealers or Authorised Service Centres. No reimbursement will be made for repairs carried out by non Samsung Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
4. This product is not considered to be defective in materials nor workmanship by reason that it requires adaptation in order to conform to national or local technical or safety standards in force in any Country other than the one for which the product was originally designed and manufactured. This warranty will not cover, and no reimbursement will be made for such adaptation nor any damage which may result.
5. This warranty covers none of the following:
 - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
 - b) Cost relating to transport, removal or installation of the product.
 - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
 - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of Samsung.
6. This warranty is valid for any person who legally acquired possession of the product during the warranty period.
7. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and Samsung, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

SAMSUNG ELECTRONICS (U.K.) LTD.



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ENGLISH

THE SPORTS CAMCORDER IS MANUFACTURED BY:



RoHS compliant

Our product complies with "The Restriction Of the use of certain Hazardous Substances in electrical and electronic equipment", and we do not use 6 hazardous materials- Cadmium(Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr⁺⁶), Poly Brominated Biphenyls (PBBs), Poly Brominated Diphenyl Ethers(PBDEs)- in our products.