





User's Manual

Digimax₄₃₀

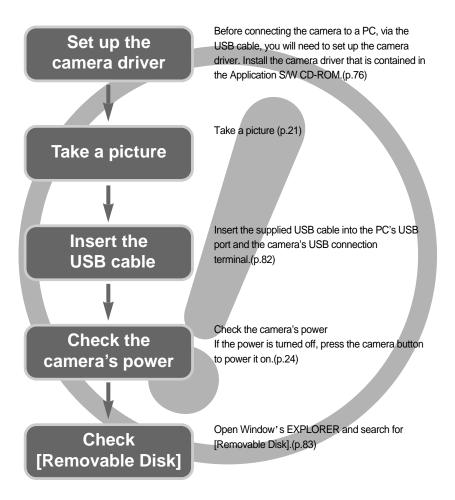
Thank you for buying a Samsung Camera.

ENGLISH

This manual will guide you through using the Digimax 430, including capturing images, downloading images and using the Photo Impression software. Please read this manual carefully before using your new camera.

Instructions

Use this camera in the following order



 If you use a card reader to copy the images on the memory card to your PC, the images could be damaged. When transferring the images taken with the camera to your PC, be sure to use the supplied USB cable to connect the camera to your PC. Please note that the manufacturer holds no responsibility for loss or damage of images on the memory card due to the use of a card reader.

Getting to know your camera

Thank you for buying a Samsung Digital Camera.

- Prior to using this camera, please read the user manual thoroughly.
- When you require After Sales service, please bring the camera and the cause of the camera malfunction (such as Batteries, Memory card etc.) to the A/S center.
- Please check that the camera is operating properly prior to when you intend to use it (e.g. for a trip or an important event) to avoid disappointment. Samsung camera takes no responsibility for any loss or damages that may result from camera malfunction.
- Keep the manual in a safe place.
- * Microsoft, Windows and Windows logo are registered trademarks of Microsoft Corporation incorporated in the United States and/or other countries.
- * All brand and product names appearing in this manual are registered trademarks of their respective companies.

About the icons

This manual contains instructions on using this camera that will help you to use this camera safely and correctly. This will help prevent danger and injury to others.



DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

WARNING indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.



CAUTION

CAUTION indicates a potentially hazardous situation, which, if not avoided, may result in a minor or moderate injury.

Danger

- Do not attempt to modify this camera in any way. This may result in fire, injury, electric shock or severe damage to you or your camera. Internal inspection, maintenance and repairs should be carried out by your dealer or Samsung Camera Service Center.
- Please do not use this product in close proximity to flammable or explosive gases, as this could increase the risk of explosion.
- Should any form of liquid or a foreign object enter the camera, do not use it. Switch off the camera, and then disconnect the power source (batteries or AC Power Adapter). You must contact your dealer or Samsung Camera Service Center. Do not continue to use the camera as this may cause a fire or electric shock.
- Do not insert or drop metallic or inflammable foreign objects into the camera through access points e.g. the memory card slot and battery chamber. This may cause a fire or electric shock.
- Do not operate this camera with wet hands. This could pose a risk of electric shock.

DANGER

Warning

- Do not use the flash in close proximity to people or animals. Positioning the flash too close to your subject's eyes, may cause eyesight damage.
- When taking photographs, never point the lens of the camera directly into very strong light. This may result in permanent damage to your eyesight.
- For safety reasons keep this product and accessories out of reach of children or animals to prevent accidents e.g.:
 - Swallowing batteries or small camera accessories. If an accident should occur, please consult a doctor immediately.
 - There is the possibility of injury from the camera's moving parts.
- Batteries and camera may become hot during prolonged use and it may result in camera malfunction. Should this be the case, allow the camera to sit idle for a few minutes to allow it time to cool.
- Do not recharge non rechargeable batteries. This may cause an explosion.
- Do not leave this camera in places subject to extremely high temperatures, such as a sealed vehicle, direct sunlight or other places of extreme variances in temperature. Exposure to extreme temperatures may adversely affect the camera's internal components and could cause a fire.
- When in use, do not cover the camera or AC Power Adapter. This may cause heat to build up and distort the camera body or cause a fire. Always use the camera and its accessories in a well-ventilated area.

Caution

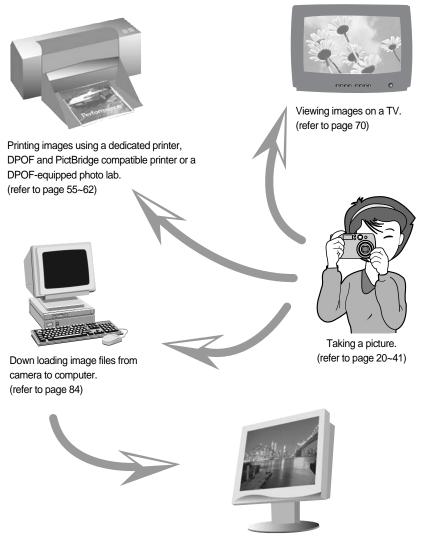
- Leaking, overheating, or burst batteries could result in fire or injury.
 - Use batteries with the correct specification for the camera.
 - Do not short circuit, heat or dispose of batteries in fire.
 - Do not insert the batteries with the reverse polarities.
- Remove the batteries when not planning to use the camera for a long period of time. Batteries may leak corrosive electrolyte and irreparably damage the camera's components.
- Do not fire the flash while it is in contact with hands or objects. Do not touch the flash after using it continuously. It may cause burns.
- Do not move the camera while it is switched on, if you are using the AC Power Adapter. After use, always switch off the camera before unplugging the adapter from the wall socket. Then make sure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or electric shock.

CAUTION

An FCC warning

- This device has been tested in accordance with the limits of a class B digital device under item 15 of the FCC rules. These limits are designed to provide protection against harmful interference in commercial installation. This equipment generates, absorbs and can emit radio frequency energy. If it is not installed and used in accordance with the instructions, it may cause harmful interference to radio communication. There is however, no guarantee that interference will not occur in some situations. Should any interference occur when this device is in operation, please try one or more of the following measures.
 - Change the location and direction of any aerial.
 - Increase distance between the camera and the affected device.
 - Use a different socket away from the affected device.
 - Please contact a Samsung agent or a radio/TV engineer.
- This device complies with part 15 of the FCC Rules.
- Changes or modifications not expressly approved by the party responsible for compliance could void user's authority to operate the equipment.

This digital camera can be used for



Editing images on a PC. (refer to page 115)

This digital camera can be used for



Creation of a digital photo album.



Taking a self-portrait and using the image to personalize name cards.



Recording your voice. (refer to page 22)



Recording a movie clip (refer to page 21)



You can even create your own unique gift wrap paper by using your digital images.



Inserting images directly into any electronic document.

Manufacturer's contents

Please check that you have the correct contents before using this product. marked contents are optional.

Digital Camera



2 AA Alkaline Batteries

Pouch

AV cable







USB cable

Camera strap



User manual



Product warranty



Software CD



SD memory card



Memory Stick Duo



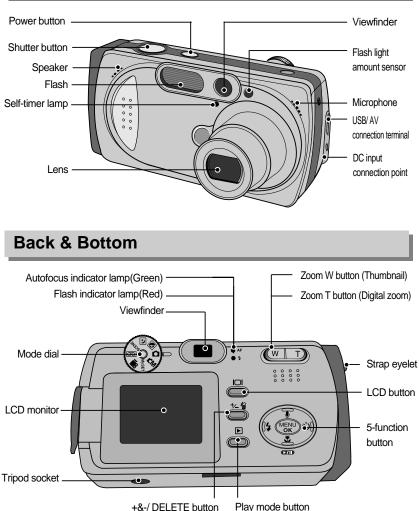


Battery pack (SBP-3603)

AC adapter (3.3V)
Digimax Battery I-Pack : SBP-1103 KIT
Battery charger
Rechargeable battery
AC adapter(5V)



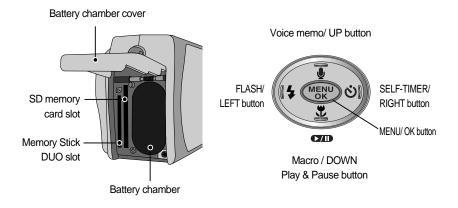
Front & Top



+&-/ DELETE button

* When using the digital zoom to take a picture, the composition of the picture may be different depending on whether you are using the LCD monitor or the viewfinder. The picture will be taken in the composition of the picture as it appears on the LCD monitor.

Side/ 5-function button



Mode dial

You can select the desired working mode by using the mode dial located on the back of the camera. This digital camera has 8 recording modes. These are listed below.

AUTO mode



Please select this mode for quick and easy picture taking with minimal user interaction.

MANUAL mode



Selecting automatic mode will configure the camera with optimal settings. You can still manually configure all functions except the iris and shutter speed.

MySET mode



MOVIE CLIP mode



This mode allows users to save frequently used shooting settings for later use.

A movie clip can be recorded for as long as the available recording time of the memory capacity allows.

- Image size : 640X480, 320X240(user selectable)
- Movie clip file type : *.avi

VOICE RECORDING mode



A voice recording can be recorded for as long as the available recording time of the memory capacity allows.(Max : 1 hour) - Voice recording file type : *.wav

SCENE mode



Use the menu to easily configure optimal settings for a variety of situations including children, landscape, close-up, sunset, dawn, backlight, fireworks, beach scenes, and snowscape.

NIGHT SCENE mode



This mode is used at night or against a dark background.

PORTRAIT mode



This is used for just portrait or both portrait and landscape shots.

■ Self-timer lamp(Based on 10-second Self-timer; see p. 26)

Color	Status	Camera Status
Red	Blinking	For the first 7 seconds, the LED blinks at 1 second intervals. For the final 3 seconds, the LED blinks quickly at 0.5-second intervals.
	Blinking 1 time	When the camera power is on / when the shutter button is released from pressing.

Auto focus indicator lamp(Green)

Color	Status	Camera Status	
Croop	Blinking	Recording Mode (lightly press the shutter button): Not focused PC Mode: Transmitting Data	
Gieen	Green On	Recording Mode (lightly press the shutter button): Focused PC Mode: Turned off the LCD with the LCD button.	

Flash indicator lamp(Red)

Color	Status	Camera Status
Blinking		Flash in the process of charging
Red	On	Flash ready

Mode icons

MODE	AUTO	MANUAL	MySET	MOVIE CLIP	VOICE RECORDING	NIGHT SCENE	PORTRAIT	PLAY			
Icon		СM	My	P	00	Ľ	6				
MODE		SCENE									
NODE	CHILDREN	LANDSCAPE	CLOSE-UP	SUNSET	DAWN	BACKLIGHT	FIREWORKS	BEACH&SNOW			
Icon	*			=	Ĭ	de la	૽ૺ૽	78			

Connecting to a Power Source

- There are two ways in which to provide the camera with power. You can use batteries or alternatively, you can use an AC(100 ~ 250V) Adapter (DC 3.3V 2.0A).
- We recommend using batteries for a digital camera. (Within a year from the date of manufacture) The batteries are listed below.

Non rechargeable batterie	es: AA type	– Alkaline, Ni-Mn, Ni-Zn, Lithium
	CR-V3 type	– Lithium
Rechargeable batteries	: AA type	– Ni-MH, Ni-Cd (over 1000mA)
	CR-V3 type	- Digimax Battery I-Pack(SBP-1103)
	Battery pack	 Digimax Battery Pack(SBP-3603)

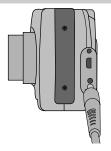
Connecting to a Power Source

INFORMATION

Important information about battery usage

- It is easy to buy alkaline batteries. However, the duration for using batteries varies in accordance with the battery manufacturer or the photographic conditions.
- When the camera is not used, turn off the camera power.
- Do not recharge the non rechargeable batteries. It may cause an explosion.
- Please remove the batteries if the camera will not be used for long periods.
 Batteries can lose power over time and are prone to leaking if kept inside the camera.
- We recommend high capacity ALKALINE batteries as manganese batteries cannot deliver sufficient power.
- Low temperatures (below 0°C) can affect the performance of the batteries and you may experience reduced battery life.
- Batteries will usually recover at normal temperatures.
- Do not use old and new batteries at the same time.
- During extended use of the camera, the camera body may become warm. This is perfectly normal.

Using the AC power adapter (3.3V 2.0A)



If you have access to a mains supply, using an AC Adapter (3.3V 2.0A) allows the camera to be used for long periods of time.

Plug the adapter into the connection point

(DC IN 3.3V) on the camera.

Remove the batteries from the camera when using an AC adapter.

DANGER

- Always turn off the power before taking the AC adapter out of the mains supply.
- As with all mains powered devices, safety is important. Ensure that neither the camera nor adapter comes into contact with water or metallic materials.
- Please ensure that you use an AC adapter (3.3V 2.0A) with the correct specification for the camera. Failure to do so may affect your warranty.

Connecting to a Power Source

Using the batteries

- : If the camera does not turn on after you have inserted batteries, please check whether the batteries are inserted with the correct polarity(+ and-).
- 1. Open the battery chamber cover by pushing in the direction of the arrow.



[Inserting the AA type battery]





- 2. Insert the batteries taking note of the polarity (+ / -).
- [Inserting the CR-V3 type battery]

3. To close the battery chamber cover, push it until it clicks.

There are 3 indicators for battery condition that are displayed on the LCD monitor.

Battery indicator			
Battery status	The batteries are fully charged.	Prepare new batteries.	There is no battery capacity. Replace with new batteries.

Using the Digimax battery pack (Optional : SBP-3603, 3.3V)

The Digimax Battery Pack is a rechargeable external Li-ion battery for use with most digital cameras. These optional battery packs provide long lasting power and their operating performances are much improved over Ni-MH and Alkaline batteries. This is due to the mass storage lithium ion cell. Refer to the illustrations.



Instructions on how to use the memory card

Maintenance of the memory card

- Be sure to format the memory card (see p. 59) if you are using a newly purchased memory for the first time, if it contains data that the camera cannot recognize, or if it contains images captured with a different camera.
- Turn off the camera power whenever the memory card is being inserted or removed.
- Repeated use of the memory card will eventually reduce the memory card's performance. Should this be the case, you will need to purchase a new memory card. Wear and tear on the memory card is not covered by the Samsung warranty.
- The memory card is an electronic precision device.
 Do not bend, drop or subject the memory card to any heavy impact.
- Do not store the memory card in an environment with strong electronic or magnetic fields, e.g. near loud speakers or TV receivers.
- Please do not use or store in an environment where there are extremes in temperature.
- Do not allow the memory card to become dirty or to come into contact with any liquid. Should this happen, clean the memory card with a soft cloth.
- Please keep the memory card in its case when not in use.
- During and after periods of extended use, you may notice that the memory card is warm. This is perfectly normal.
- Do not use a memory card that is used in another digital camera or memory card reader.
- Do not use a memory card formatted by another digital camera or memory card reader.

Preserving the memory card data

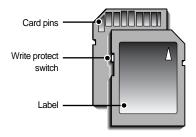
- If the memory card is subjected to any of the following, the recorded data may become corrupted :
 - When the memory card is used incorrectly.
 - If the power is switched off or the memory card is removed while recording, deleting (formatting) or reading.
- Samsung cannot be held responsible for lost data.
- It is advisable to copy important data onto other media as back-up e.g. floppy disks, hard disks, CD etc.
- If there is insufficient memory available : If you press the shutter button for the shot, a [CARD FULL !] message will appear and the camera will not operate. To optimize the amount of memory in the camera, replace the memory card or delete unnecessary images stored on the memory.

Precautions on Using the Memory Stick Duo

INFORMATION

- If you open the battery chamber cover when the camera power is turned on, the power will turn off automatically.
- Don't remove the memory card when the Auto focus lamp(Green) is blinking as this may cause damage to data in the memory card.

The camera can use SD Memory Cards, MMC (Multi Media Card), and Memory Stick Duo. Please consult the enclosed manual for using the MMC and Memory Stick Duo.



[SD(Secure Digital) memory card]

The SD memory card has a write protect switch that prevents image files from being deleted or formatted.

By sliding the switch to the bottom of the SD memory card, the data will be protected. By sliding the switch to the top of the SD memory card, the data protection will be canceled. Slide the switch to the top of the SD memory card before taking a picture.

When using a 32MB SD memory card, the specified shooting capacity will be as follows. (These figures are intended as an indication of expected performance). These figures are approximate as image capacities can be affected by variables such as subject matter.

Recorded image size	Super fine	Fine	Normal
2272x1704			
2048x1536			
1600x1200			
1024x768			
640x480			

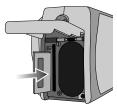
Inserting the memory card

1. Turn off the camera's power and pull the battery chamber cover in the direction of the arrow to open.

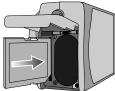
- 2. Have the front of the memory card facing toward the front of the camera (lens) and the card pins toward the back of the camera (LCD monitor), and then push the memory card into the card slot until you hear a click.
- * When inserting the Memory Stick Duo, please have the label side facing down (toward the LCD) and the other side up (toward the lens).
- 3. To close, push the battery chamber cover until you hear a click. If the memory card does not slide in smoothly, do not attempt to insert it by force. Check the direction of insertion. and then insert it correctly. Do not insert the memory card the wrong way round. Doing so may damage the memory card slot.

Removing the memory card

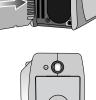
- 1. Turn the power off using the power button. Open the battery chamber cover and press the memory card as shown in the image and release.
- 2. Remove the memory card and close the battery chamber cover.





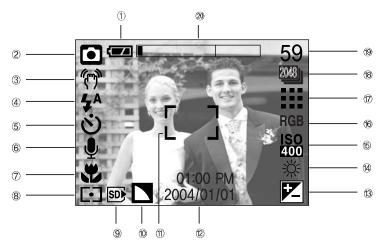






LCD monitor indicator

■ The LCD monitor displays information about the shooting functions and selections.



[Image & Full Status]

No.	Description	Icons	Page
1	Battery		p.16
2	Recording mode	C CM myset)	p.12~13
3	Camera shake warning	(m)	p.23
4	Flash	4° • 4° 43	p.28
5	Self-timer	ల ల ²⁵	p.29
6	Voice memo	U	p.26
7	Macro	T.	p.31
8	Metering		p.36~37
9	SD card/ MS DUO indicator	SD) MS)	p.61
10	Sharpness		p.61
11	Auto focus frame		p.30
12	Time/ Date	01:00 PM 2004/01/01	p.38
13	Exposure compensation		p.19

20

LCD monitor indicator

14	White Balance	※ ● 班 荘 ♣ ▶	p.56
15	ISO	ISO ISO ISO ISO ISO AUTO 50 100 200 400	p.56
16	RGB	RGB	p.56
17	Image quality		p.56
18	Image size/ Continuous shot	2272, 2048, 1600, 1024, 640	p.56
	Number of available shots remaining	54	p.56
19	Remaining time (Movie clip/ Voice recording)	02:00/00:05:00	p.56
20	Optical/ Digital Zoom rate		p.56

Starting the recording mode

- How to use the AUTO mode (
)
 - Insert the batteries. (p.18)
 Insert the batteries taking note of the polarity (+ / -).
 - 2. Insert the memory card. (p.22)
 - 3. Close the battery chamber cover.
 - Press the power button to turn on the camera.
 (If the date/time that is displayed on the LCD monitor is incorrect, reset the date/time before taking a picture.)
 - 5. Select the AUTO mode by rotating the mode dial.
 - 6. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
 - 7. Press the shutter button to capture an image.



[AUTO mode]

INFORMATION

• If the auto focus frame turns to red when you press the shutter button down half way, it means that the camera cannot focus on the subject. Should this be the case, the camera is unable to capture an image clearly.

Starting the recording mode

■ How to use the MANUAL mode (**CM**)

Selecting automatic mode will configure the camera with optimal settings. You can still manually configure all functions except the iris and shutter speed.

Steps from 1-4 are the same as those for AUTO mode.

- 5. Select the MANUAL mode by rotating the mode dial.
- 6. Press the menu button to configure advanced functions such as image size (p.34), number of pictures in sequential shooting (p.34), picture effects (p.34), sharpness (p.34).
- Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
- 8. Press the shutter button to capture an image.





[MANUAL mode]

How to use the MySET mode (MySET) This mode allows users to save frequently used shooting settings for later use.

Steps from 1-4 are the same as those for AUTO mode.

- 5. Select the MySET mode by rotating the mode dial.
- You can use the menus that appear when you press camera and menu buttons to change the desired camera functions.

The last changed function(s) will automatically be saved as MySET mode.

- If you rotate the Mode Dial to MySET mode while in another camera operation mode, the camera settings will switch to the settings you changed in Step 6.
- 8. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
- 9. Press the shutter button to capture an image.



[MySET mode]

Starting the recording mode

■ How to use the MOVIE CLIP mode ()

Steps from 1-4 are the same as those for AUTO mode.

- 5. Select the MOVIE CLIP mode by rotating the mode dial.
- 6. The MOVIE CLIP mode icon and available recording time will display on the LCD monitor.
- 7. Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor. Press the shutter button and movie clips are recorded for as long as the available recording time. Movie clips will still be recorded if the shutter button is

released.

The auto focus lamp(green) will blink during the movie clip recording.

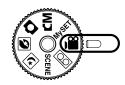
- * If you wish to stop recording, press the shutter button again.
- * Image size and type are listed below.
- Image size : 640x480, 320 x 240(Selectable)
- File type : *.avi
- How to use the VOICE RECORDING mode (○○) Steps from 1-4 are the same as those for AUTO mode.
 - Select the VOICE RECORDING mode by rotating the mode dial.
 - 6. Press the shutter button to record a voice.
 - Press the shutter button once and voice is recorded for as long as the available recording time(Max : 1 hour) allows. The recording time will be displayed on the LCD monitor.

Voice will still be recorded if the shutter button is released.

- If you wish to stop recording, press the shutter button again.
- File type : *.wav

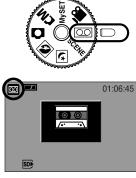
INFORMATION

• A distance of 40cm between you and the camera (microphone) is the best distance to record sound.





[MOVIE CLIP mode]



[VOICE RECORDING mode]

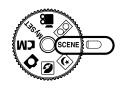
Starting the recording mode

■ How to use the SCENE mode (SCENE)

Use the menu to easily configure optimal settings for a variety of situations including children, landscape, close-up, sunset, dawn, backlight, fireworks, beach scenes, and snowscape.

Steps from 1-4 are the same as those for AUTO mode.

- 5. Select the SCENE mode by rotating the mode dial.
- Press the MENU button and the SCENE mode menu will be displayed.
- 7. Use the LEFT and RIGHT buttons to select the [SCENE] menu tab.
- Use the UP and DOWN buttons to select the desired [SCENE] sub menu. Please see page 34 for detailed descriptions for each screen.
- 9. Current scene icon is displayed at the top left of the LCD.
- Point the camera towards the subject and compose the image by using either the viewfinder or LCD monitor.
- 11. Press the shutter button to capture an image.





[SCENE mode]



This mode is used at night or against a dark background. Configure shutter speed by zoom scale (Long Time shutter) with the +/- button. Please see page 45 for a detailed description for Long Time shutter.





This is used for just portrait or both portrait and landscape shots.



Things to Watch Out for When Taking Pictures

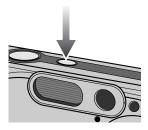
- Pressing the shutter button down half way Lightly press the shutter button to confirm focus and flash battery charge. (See page 20) Press the shutter button all way down to take the picture.
- The available recording time may vary depending on shooting conditions and camera settings.
- When the Flash Off or Slow synchro mode is selected in a low lighting condition, the camera shake warning indicator (()) may appear on the LCD monitor. In this case, use a tripod, support the camera on a solid surface or change the flash mode to flash shot mode.
- Backlight compensated shots : When taking an outdoor shot, avoid facing the sun, as the image may be dark because of the strong backlight. In backlight conditions, please use Fill-in flash(p.28), Spot metering(p.37) or Exposure compensation(p.30).
- Avoid obstructing the lens or the flash when you capture an image.
- As there can be some differences between what is seen through the Viewfinder and the resulting image when taken at a range closer than 1.5m, it is recommended that you use the LCD monitor to compose these shots.
- Using the LCD monitor extensively will drain the batteries. We recommend turning off the LCD monitor and using the optical viewfinder as often as possible in order to extend battery life.
- Under certain conditions the auto focus system may not perform as expected. When photographing a subject that has little contrast.
 - If the subject is highly reflective or shiny.
 - If the subject is moving at high speed.
 - When there is strong reflected light, or when the background is very bright.
 - When the subject matter has only horizontal lines or the subject is very narrow (such as a stick or flagpole).
 - When the surroundings are dark.

Using the camera buttons to adjust the camera

The RECORDING(AUTO, MANUAL, MySET, MOVIE CLIP, VOICE RECORDING, SCENE, NIGHT SCENE, PORTRAIT) mode function can be set up by using the camera buttons.

POWER button

- Used for turning the camera's power on / off.
- If there is no operation during the specified time, the camera's power will be turned off automatically to save battery life. Pressing the power button for over 3 seconds will deactivate the start-up sound function.

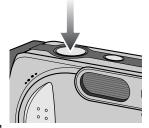


SHUTTER button

- Used for taking an image or recording voice in the RECORDING mode.
- In MOVIE CLIP mode : Pressing the shutter button down

fully starts the process for recording a movie clip.

Press the shutter button once and the movie clip is recorded for as long



as the available recording time in the memory allows. If you wish to stop recording, press the shutter button again.

In STILL IMAGE mode

Pressing the shutter button down halfway activates the auto focus and checks the condition of the flash.

Pressing the shutter down fully takes the image and stores the relevant data regarding the shot. If you select voice memo recording, the recording will start after the camera has finished storing the image data.

ZOOM W/ T button

- If the menu is displayed in RECORDING mode, pressing the ZOOM W/T button will skip 5 menu tabs at a time.
- If the menu is not displayed, this button works as the OPTICAL ZOOM or DIGITAL ZOOM button.

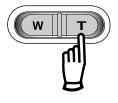


ZOOM W/ T button

- This camera has a 3X optical zoom and a 4X digital zoom function. Using both will offer a total zoom ratio of 12X. When you press the ZOOM W/T button, the zoom bar will display in the upper center part of the LCD monitor.
- TELE Zoom

Optical zoom TELE

Digital zoom TELE



: Pressing the ZOOM T button. This will zoom into the subject i.e. the subject will appear nearer. : When the maximum (3X) optical zoom is selected, pressing the

ZOOM T button activates the digital zoom software. Releasing ZOOM T button stops the digital zooming at the required setting. Once the maximum digital zoom (4X) is achieved, pressing the ZOOM T button will have no effect.



Pressing the





Pressing the

ZOOM W buttor

[WIDE zoom]

[TELE zoom]

[TELE zoom]

: Pressing the ZOOM W button. This will zoom out from the subject i.e. the subject will appear further away. Pressing the ZOOM W button continuously will set the camera to its minimum zoom setting

i.e. the subject appears at its furthest from the camera.

Pressing the

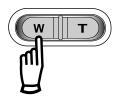
ZOOM W buttor



[Digital zoom 2.0X]

[WIDE zoom]

WIDE Zoom Optical zoom WIDE



Digital zoom WIDE

Optical zoom

: When the digital zoom is in operation, pressing the ZOOM W button will reduce the digital zooming in steps. Releasing ZOOM W button stops digital zooming. Pressing the ZOOM W button will reduce the digital zoom and then it will continue to reduce the optical zoom until the minimum setting is reached.

[Optical zoom 2X]





[Digital zoom 4.0X]

[Digital zoom 2.0X]

[Optical zoom 3X]

ZOOM W/ T button

INFORMATION

- To use the digital zoom the LCD monitor has to be turned on.
- Images taken using the digital zoom may take a little longer for the camera to process. Allow time for this to take place.
- Digital Zoom will not work in Night Scene mode.
- You may notice a decrease in image quality when using the digital zoom.
- When the maximum(3X) optical zoom is selected, pressing the ZOOM T button increases the digital zoom ratio by 0.1 steps.
- Do not use the zoom button while recording video, to avoid accidentally recording the clicking sound. Please adjust the zoom before starting to record.
- Take care not to touch the lens to avoid taking an unclear image and possibly causing camera malfunction.

If the image is dim, turn the camera power off and on again to modify the lens position.

- Take care not to press the lens as this may cause a camera malfunction.
- When the camera is turned on, take care not to touch the camera's moving lens parts as this may cause the resulting image to be dim and unclear.
- Take care not to touch the lens during zoom operation as this may cause damage.

Voice memo(🎍) / UP button

- While the menu is showing, press the UP button to move up the submenu cursor.
- When the menu is not displayed on the LCD monitor, the UP button operates as the voice memo (. You can add your voice-over to a stored still image.

Recording a voice memo

- 1. Rotate the MODE DIAL to select a RECORDING mode with the exception of MOVIE CLIP and VOICE RECORDING modes.
- 2. Press the VOICE MEMO (🖢) button.

If the voice memo indicator is displayed on the LCD monitor, the setting is completed.





[Preparing for Voice Memo]



[Recording Voice Memo]

Voice memo (🎍) / UP button

- 3. Press the shutter button and take a picture. The picture is stored on the memory card.
- 4. Voice memo will be recorded for ten seconds from the moment the picture is stored. In the middle of the sound recording, pressing the shutter button will stop the voice memo.

INFORMATION

• A distance of 40cm between you and the camera (microphone) is the best distance to record sound.

Macro (🐥) / Down button (Focusing)

- While the menu is showing, press the DOWN button to move from the main menu to a submenu, or to move down the submenu cursor.
- When the menu is not showing, you can use the MACRO/ DOWN button to take macro pictures (within the distance range of 5cm 80 cm).



[Auto focus]



[Macro]

■ Types of focus mode and focus range(W: Wide, T: Tele)

Focus type Auto		Macro (🌪)				
Focus range	80cm ~ Infinity	W : 5 ~ 80cm	T : 50 ~ 80cm			

INFORMATION

• When the macro mode is selected, it is possible that camera shake will occur. If this is the case, use a tripod to eliminate this.

Macro (*) / Down button (Focusing)

Available focusing method, by recording mode

		СM	My	,°°	00	K	٩	*		T	=	Ű	st <u>o</u>	ંં	2
Auto	0	0	0	0	Х	0	0	0	0	Х	0	0	0	0	0
	0	0	0	0	Х	Х	Х	Х	Х	0	Х	Х	Х	Х	х

Focus lock

- To focus on the subject positioned outside of the center, use the focus lock function.
- Using the Focus Lock
 - 1. Ensure the subject in the center of the autofocus frame.
 - Press the SHUTTER button halfway. When the green auto lights up, it means the camera is focused on the subject. Be careful not to press the SHUTTER button all the way down to avoid taking an unwanted pictured.
 - 3. With the SHUTTER button still pressed down only halfway, move the camera to recompose your picture as desired, and then press the SHUTTER button completely to take the picture. If you release your finger from the SHUTTER button, the focus lock function will be canceled.



[The image to be captured]



[Press the SHUTTER button] halfway and focus on the subject



[Recompose the picture and fully] depress the SHUTTER button

FLASH (🗲) / LEFT button

- When the menu is displayed on the LCD monitor, pressing the LEFT button makes the cursor shift to the left tab.
- When the menu is not displayed on the LCD monitor, the LEFT button operates as the FLASH (4) button.
- Selecting the flash mode
 - Rotate the MODE DIAL to select a RECORDING mode with the exception of MOVIE CLIP and VOICE RECORDING modes.



[Selecting the Auto flash]

- 2. Press the Flash button until the desired flash mode indicator displays on the LCD monitor.
- 3. A flash mode indicator will be displayed on the LCD monitor. Use the correct flash to suit the environment.

Flash range

Unit : m

ISO	AUTO	FOCUS	MACRO		
100	WIDE	TELE	WIDE	TELE	
AUTO	0.8~3.0	0.8~2.0	0.3~0.8	0.5~0.8	

INFORMATION

- Using the flash frequently will reduce the life of the batteries.
- Under normal operating conditions the charging time for the flash is normally within 7 seconds. If the batteries are weak, the charging time will be longer.
- During the continuous shot, movie clip mode, the flash function will not operate.
- Take photographs within the flash range.
- The image quality is not guaranteed if the subject is too close or highly reflective.
- The LCD monitor is turned off for a while after using the flash to recharge it.

FLASH (🗲) / LEFT button

Flash mode indicator

ICON	Flash mode	Description
\$	Auto flash	If the subject or background is dark, the camera flash will operate automatically.
٢	Red eye reduction	If a subject or background is dark, the camera flash will work automatically and will reduce the red-eye effect by using the red- eye reduction function.
4	Fill in flash	The flash fires regardless of available light. The intensity of the flash will be controlled, according to the prevailing conditions. The brighter the background or subject is, the less intense the flash will be.
4 ^s	Slow synchro	The flash will operate in conjunction with a slow shutter speed in order to obtain the correct exposure. We recommend using a tripod for this function. When you take an image in a condition with poor light, the camera shake warning indicator (()) will display on the LCD monitor.
3	Flash off	The flash does not fire. Select this mode when capturing images in a place or situation where flash photography is prohibited. When you capture an image in a poorly lit condition, the camera shake warning indicator (()) will display on the LCD monitor.

• Available flash mode, by recording mode

$\left[\right]$		СM	My	°°	00	Ľ	٩	*			=	Ŭ	step.	૽ૺ૽	78
\$	х	0	0	Х	Х	х	0	х	х	х	х	Х	Х	х	0
0	0	0	0	Х	Х	х	0	0	х	х	х	Х	Х	х	х
4	х	0	0	Х	Х	х	0	х	х	х	х	Х	0	Х	х
4 ^s	х	0	0	Х	Х	0	0	х	х	х	х	Х	х	Х	х
G	х	0	0	0	х	0	0	х	0	0	0	0	Х	0	х

Self-timer (🔆) / Right button

- When the menu is displayed on the LCD monitor, pressing the Right button makes the cursor shift to the sub tab.
- When the menu is not displayed on the LCD monitor, the RIGHT button operates as the Selftimer () button. This function is used when the photographer would also like to be in the image.
- Selecting the self-timer
 - 1. Rotate the MODE DIAL to select a RECORDING mode with the exception of VOICE RECORDING mode.
 - 2. Press the SELF-TIMER button until the desired mode indicator displays on the LCD monitor.

A 2 second self-timer or 10 second self-timer icon (\circlearrowright) appears on the LCD monitor.

- 2SEC self-timer (نی^{2s}) :

Pressing the shutter button will allow an interval of 2 seconds before the image is taken.

10SEC self-timer (🚫) :

Pressing the shutter button will allow an interval of 10 seconds before the image is taken.

When you press the SHUTTER button, the picture will be taken after the specified time has elapsed.





[Selecting the 10 SEC self-timer]

INFORMATION

When taking a picture using the self-timer, the self-timer lamp works as follows:
 2 second self-timer setting : The function lamp blinks at 0.25 second interval for 2 seconds.

10 second self-timer setting : The function lamp blinks at 1 second interval for the first 7 seconds. It blinks at 0.5 second interval for the remaining 3 seconds.

- If you operate the Mode dial and Self-timer button during the self-timer operation, the self-timer function is cancelled.
- Use a tripod to prevent the camera from shaking.

MENU/ OK button

- If the menu is displayed, use the 5-Function buttons to change the data values and for your changes to be accepted
- If the menu is not displayed, press the MENU/OK button to display a menu for the current camera mode on the LCD monitor. Press the button again to return to the previous state.



- There is no menu for VOICE RECORDING mode.
- Menu screen may not show on the LCD when another button is pressed or image data is being processed. (Green LED next to the view finder blinks)
- When the menu is showing on the LCD monitor, it is not possible to operate the shutter button i.e. capture an image. To capture an image, simply cancel the menu display by pressing the MENU button.

+/- button

■ You can use the +/- button to adjust the values for the RGB, ISO, white balance, exposure compensation and Long Time shutter speed.

Main menu	Sub menu	Available camera mode		
RGB	R (Red), G (Green), B (Blue)	CM My Scene N		
ISO	AUTO, 50, 100, 200, 400			
WHITE BALANCE	AUTO, DAYLIGHT, CLOUDY, FLUORESCENT H, FLUORESCENT L, TUNGSTEN, CUSTOM.	CM My scene 🔊		
Exposure compensation	-2.0~0.0~+2.0(0.5EV steps)	CM My SCENE		
Shutter speed/ Aperture value	Changed by zoom scale	Ľ		

- RGB : Allows the user to adjust the R (Red), G (Green), and B (Blue) values of the images to be captured.
- Setting RGB Values
 - 1. Press the +/- button, and then use the UP and DOWN buttons to select the RGB icon (RGB). The RGB menu bar will appear as shown.
 - 2. Use the UP/ DOWN/ LEFT and RIGHT buttons to select the desired RGB value.
 - Up/Down Button: Navigates between R, G,

and B icons.

- Left/Right Button: Changes value of each icon
- When you press the +/- button again, the value you set will be saved and RGB setup mode will end.
- ISO : You can select the ISO sensitivity when taking pictures. The speed or specific light-sensitivity of a camera is rated by ISO numbers.
- Selecting an ISO Sensitivity
 - 1. Press the +/- button, and then use the UP and DOWN buttons to select the ISO icon (**ISO**).

The ISO menu bar will appear as shown.

- 2. Use the LEFT and RIGHT buttons to select the desired ISO sensitivity value.
 - AUTO : The camera's sensitivity is automatically changed by variables such as lighting value or subject brightness.
 - 50, 100, 200, 400 : You can increase the shutter speed while the same amount of light is present, by increasing the ISO sensitivity.

However, the image may be saturated in high luminance.

The higher the ISO value, the higher the camera' $_{\rm S}$ sensitivity to light is and therefore the greater its capacity to take pictures in dark conditions. However, the noise level in the image will increase as the ISO value increases, making the image appear coarse.

3. When you press the +/- button again, the value you set will be saved and ISO setup mode will end.





- White balance : The white balance control allows you to adjust the colours to appear more natural looking.
- Selecting a White Balance
 - Press the +/- button, and then use the UP and DOWN buttons to select the white balance icon (AWB).
 The white balance menu bar will appear as shown.
 - 2. Use the LEFT and RIGHT buttons to set the white balance to the desired value. The value you set will be displayed on the LCD monitor.
 - AUTO AWB : The camera automatically selects the appropriate white balance settings, depending on the prevailing lighting conditions.
 - DAYLIGHT ※ : For taking images outside. CLOUDY : For taking images under a cloudy and overcast sky. Fluorescent H 낮 : Shooting under daylight fluorescent or daylight fluorescent type three-way fluorescent lighting

Fluorescent L TUNGSTEN CUSTOM

- : Shooting under white fluorescent lighting
- : For shooting under tungsten (standard light bulb) lighting.
- Allows the user to set the white balance according to the shooting condition.

Different lighting conditions may cause a colour cast on your images.

- 3. Press the +/- button again. The value you set will be saved and White Balance setup mode will end.
- Using the Custom White Balance

White balance settings may vary slightly depending on the shooting environment. You can select the most appropriate white balance setting for a given shooting environment by setting up the custom white balance.

- 1. Select the CUSTOM (_) menu of the White Balance.
- 2. Place a sheet of white paper in front of the camera so that the LCD monitor shows only white, and then press the SHUTTER button ([]).
- 3. Your custom white balance value is stored.
- The custom white balance value will be applied, starting with the next picture you take.
- User configured white balance will be remain effective until it is overwritten.







[White paper]

Exposure compensation : This camera automatically adjusts the exposure according to the ambient lighting conditions.

You can also select the exposure value by using the +/- button.

Compensating Exposure

- Press the +/- button, and then use the UP and DOWN buttons to select the exposure compensation icon (). The exposure compensation menu bar will appear as shown.
- Use the LEFT and RIGHT buttons to set the desired exposure compensation factor.



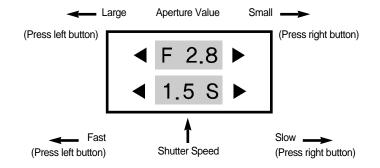
- Press the +/- button again. The value you set will be saved and the Exposure Compensation setup mode will close. If you change the exposure value, the exposure indicator () will be displayed on the bottom of the LCD monitor.
- * A negative exposure compensation value reduces the exposure. Note that a positive exposure compensation value increases the exposure and the LCD monitor will appear white or you may not get good pictures.
- Long Time shutter : This camera automatically adjusts the shutter speed and aperture values to the shooting environment. However, in NIGHT SCENE mode, you can set the shutter speed and aperture values to your preference.
- Adjusting the shutter speed and aperture values
 - 1. Select the NIGHT SCENE mode by rotating the mode dial.
 - 2. Press +/- button and select Long Time shutter menu with the up/down button to open the shutter speed / iris configuration window.
 - Configure the Long Time shutter value with the up/down/left/right button.
 Up/Down Button: Select the iris / shutter speed
 Left/Right Button: Change the value. Available iris value options, depending on zoom step will be displayed on the menu.



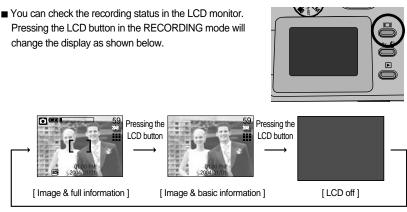
4. Press the +/- button again. The value you set will be saved and the mode will switch to NIGHT SCENE mode. Press the SHUTTER button to take the picture.

Aperture values that can be selected for each zoom position are as follows :

Optical Zoom										
Zoom Position		zoom0	zoom1	zoom2	zoom3	zoom4	zoom5	zoom6	zoom7	
Focusing range(mm)		5.8	7.4	9.1	10.7	12.4	14.0	15.7	17.4	
Aperture		2.8	3.1	3.4	3.7	4.0	4.3	4.6	4.8	
Value	Small	5.8	6.4	7.1	7.8	8.3	8.9	9.5	10.1	



LCD button



Pressing the LCD button

■ If the LCD monitor is turned off, the auto focus lamp will light up.

Using the LCD monitor to adjust the camera settings

You can use the menu on the LCD monitor to set up recording functions. In any mode with the exception of VOICE RECORDING mode, pressing the MENU button displays the menu on the LCD monitor.

INFORMATION

- The menu will not be displayed on the LCD monitor in the following circumstances:
 - When another button is being operated.

The items indicated by are default settings

- While image data is being processed. (when the green LED next to the viewfinder blinks)
- When there is no battery capacity.
- When the menu is showing on the LCD monitor, it is not possible to operate the shutter button i.e. capture an image.

To capture an image, simply cancel the menu display by pressing the MENU button.

The following functions are available, depending on the mode you have selected.

The literns indi		are delauit settings.		
Menu tab	Main menu	Sub menu	Camera working mode	Page
		2272X1704		
		2048X1536		
		1600X1200		p.58
	Size	1024X768	SCENE 🕑 🖸	
		640X480	-	
		640X480	_	p.58
		320X240	- P	
	Quality	S.FINE		p.58
		FINE		
		NORMAL	SCENE 🔀 🖸	
		30FPS		
		15FPS	- 12	
	Metering	MULTI		
	Wetering	SPOT		p.58
		SINGLE		
	Continuous shot	2 SHOTS		n 58
	Continuous shot	4 SHOTS		p.58
		8 SHOTS	1	

Using the LCD monitor to adjust the camera settings

Menu tab	Main menu		Sub menu		u	Camera working mode	Page
			NORMAL		L		
\bigcirc	Effect		B8	W		CM 🗤 🖼 🛇	p.58
			SEPIA				
		SOFT					
	Sharpness	NORMAL		L	CM My 🗷	p.58	
		VIVID					
		CHILDREN	LANDS	CAP	CLOSE-UP		
SCENE	Scene	SUNSET	DAW	N	BACKLIGHT	SCENE	p.58
		FIREWORKS B		EACH&SNOW			

How to use the menu

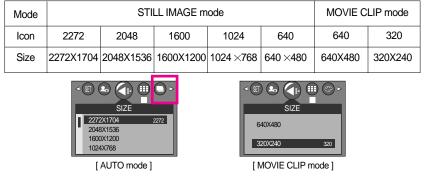
- 1. Turn on the camera and press the MENU button. A menu for each camera mode appears. However, there is no menu for Voice Recording mode (🔟).
- 2. Use the LEFT and RIGHT buttons to navigate through the menus.



3. Use the UP and DOWN buttons to select a sub menu.



 Select a sub menu, and then press the OK button. The value you set will be saved and the menu will disappear. ■ You can select the image size appropriate for your application. You can select from AUTO, MANUAL, MySET, MOVIE CLIP, NIGHT SCENE, PORTRAIT and SCENE modes.



INFORMATION

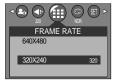
• The higher the resolution, the lower the number of available shots will be because high resolution images require more memory than lower resolution images.

Quality

■ You can select the compression ratio appropriate for your application of the captured images. The higher the compression ratio, the lower the picture quality. You can select from AUTO, MANUAL, MySET, MOVIE CLIP, NIGHT SCENE, PORTRAIT and SCENE modes.

Mode	STILL IMAGE mode			MOVIE CI	_IP mode
Icon					
Sub menu	S.FINE	FINE	NORMAL	30FPS	15FPS
File Format	jpeg	jpeg	jpeg	avi	avi





[AUTO mode]

[MOVIE CLIP mode]

Quality

 Number of available shots(Still image) & Available recording time(Movie clip) (When using a 32MB SD memory card; based on Samsung's own testing)

Mode		STILL IMAGE mode			STILL IMAGE mode MOVIE CLIP m		LIP mode
Quality/Size	2272	2048	1600	1024	640	640	320
S.FINE	17	19	27	66	169	-	-
FINE	33	38	54	132	336	-	-
NORMAL	50	56	82	198	501	-	-
30FPS	-		-	-	-	4 MIN	8 MIN
15FPS	-		-	-	-	7 MIN	12 MIN

INFORMATION

- S.FINE is the highest quality and NORMAL is the lowest setting. Choose the setting appropriate for your needs.
- This file format complies with the DCF(Design rule for Camera File system).
- JPEG (Joint Photographic Experts Group): JPEG is the image compression standard developed by the Joint Photographic Experts Group. This type of compression is most commonly used for compressing photos and graphics because it can compress the files efficiently without damaging the data.

Metering

- If you cannot obtain suitable exposure conditions, you can change the metering method to take brighter pictures. You can select either MANUAL or MySET mode.
 - MULTI (🔳)
- : Exposure will be calculated based on an average of the available light in the image area. However, the calculation will be biased towards the centre of the image area. This is suitable for general use.



) : Only the rectangular area in the center of the LCD monitor will be metered for light. This is suitable when the subject in the center is exposed correctly, regardless of the back lighting.



[[]MANUAL mode]

Continuous shot

- Select the number of pictures in sequential shooting You can select from AUTO, MANUAL and MySET modes.
 - [1 Picture] : Take one picture only
 - [2~8 Pictures] : Take a specified number of pictures per shooting



INFORMATION

- If configured pictures are fewer than available pictures for currently memory drive displayed in LCD sentence incomplete and doesn't make sense,
- High resolution and picture quality increases file saving time, which increases stand-by time.
- Select [SHOOTING] menu to inactivate the flash

Effect

■ By using the camera's digital processor, it is possible to add special effects to your images. You can select from MANUAL, MySET, MOVIE CLIP and PORTRAIT modes.



[MANUAL mode]



[MOVIE CLIP mode]

- NORMAL : No effect is added to the image.
- B & W : Converts the image to black and white.
- SEPIA : Captured images will be stored in a sepia tone (a gradient of yellowish brown colours).

Sharpness

You can adjust the sharpness of the picture you want to take. You cannot check the sharpness effect on the LCD monitor before you take a picture, because this function is applied only when the captured image is stored on the memory. You can select from MANUAL, MySET and NIGHT SCENE modes.



[MANUAL mode]

Sub menu	Icon	Description
SOFT		The edges of the image are softened. This effect is suitable for editing images on your PC.
NORMAL		The edges of the image are sharp. This is suitable for printing.
VIVID		The edges of the image are emphasized. The edges will appear sharp, but noise may occur in the recorded image.

Scene

Select the [SCENE] submenu to automatically configure optimal settings, depending on the selected scene. Only available in the Scene Mode



Sub menu	lcon	Description
CHILDREN	2	Take a still picture of capturing moving children
LANDSCAPE		Scenery with green woods or blue sky. Portrait with scenery background.
CLOSE-UP		Close-up shooting for small objects such as plants and insects
SUNSET	=	Splendor of the setting sun.
DAWN	Ť	Daybreak scenes.
BACKLIGHT		Portrait without shadows caused by back light.
FIREWORKS	ं	Firework scenes.
BEACH&SNOW		For ocean, lake, and beach scenes, and snowscapes.

Starting play mode

- Turn the camera on and select Play mode by pressing the play mode button (The camera can now play back the images stored in the memory.
- If you have turned on the camera by pressing the POWER button, you can press the PLAY MODE button once to switch to Play mode and press it again to switch to Recording mode. You can turn the power on with the play mode button.
- You can set up the PLAY mode function by using the camera buttons and LCD monitor.
- Playing back a still image

INFORMATION

- 1. Select the PLAY mode by pressing the play mode button (🗖).
- 2. The last image stored on the memory is displayed on the LCD monitor.

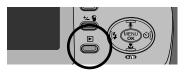
- 3. Select an image that you want to play back by pressing the LEFT / RIGHT button.
- * Press and hold the LEFT or RIGHT button to play back the images quickly.

to ON. If you wish to hear the buzzer sound and startup sound, set the [SOUND](SETUP mode) and [S.SOUND](MySET mode) settings to ON. • Even if the camera's power is off, you can start the play mode by pressing the play mode button.

Manner mode : Pressing the power button for more than 3 seconds changes the buzzer

and start-up sound setting to OFF, even though you may have set these







Starting play mode

Playing back a movie clip

Steps from 1-2 are the same as those to play back a still image.

- 3. Select the recorded movie clip that you want to play back by using the LEFT/RIGHT button. If you select a movie clip, the movie clip indicator (🚰) will be displayed on the LCD monitor.
- 4. Press the play & pause button (**C7D**) to play back a movie clip file.
 - To pause a movie clip file while playing it back, press the play & pause button again.
 - Pressing the play & pause button again will cause the movie clip file will restart.
 - To rewind the movie clip while it is playing, press the LEFT button. To fast forward the movie clip, press the RIGHT button.
 - To stop playback of the movie clip, press the play & pause button (), and then press the LEFT or RIGHT button.
- Playing back a recorded voice

Steps from 1-2 are the same as those to play back a still image.

- 3. Select the recorded voice that you want to play back by using the LEFT/RIGHT button. If you select a recorded voice file, the voice indicator (应) will be displayed on the LCD monitor.
- 4. Press the play & pause button (**C**711)) to play back a recorded voice file.
 - To pause a recorded voice file, while playing it back, press the play & pause button again.
 - To resume playback of the voice file, press the play & pause button.
 - To rewind the voice file while it is playing, press the LEFT button. To fast forward the voice file, press the RIGHT button.
 - To stop playback of the voice file, press the play & pause button, and then press the LEFT or RIGHT button.



C7/11

PLAY

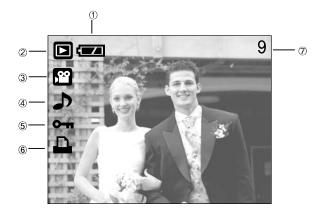
10





LCD monitor indicator

The LCD monitor displays information about the shooting conditions.



No.	Description	Icon	Page
1	Battery		P.15
2	Play mode		
3	File Type		
4	Voice memo	.	P.46
5	Protect indicator	ு	P.52
6	DPOF indicator	n.	P.56
7	Stored image number	9	

■ If you press the LCD button, you can check the following recording information:



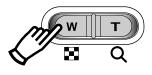
SIZE	: 2048X1536	Size
AV	: F2.8	Aperture value
TV	: 1/60	Shutter speed
ISO	: 100	ISO sensitivity
FLASH	: OFF	Whether or not the
		flash is used.
DATE	: 03/09/01	Recording date

Using the camera buttons to adjust the camera

In Play mode, you can use the buttons on the camera to conveniently set up the Play mode functions.

Thumbnail (

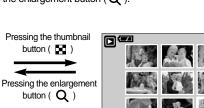
- You can view multiple pictures, enlarge a selected picture, and crop and save a selected area of an image.
- Thumbnail display
 - 1. While an image is displayed full screen, press the thumbnail button.
 - The thumbnail display will highlight the image that had been showing at the time the thumbnail mode was selected.



- 3. Press the 5 function button to move to a desired image.
- 4. To view an image separately, press the enlargement button (${f Q}$).



[Normal display mode]

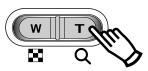


[Thumbnail display mode]

- Image enlargement
 - 1. Select an image that you want to enlarge and press the enlargement button.

Highlighted image

- 2. Different parts of the image can be viewed by pressing the 5 function button.
- 3. Pressing the thumbnail button will zoom back to the original full sized image.
 - You can tell whether the image displayed is an enlarged view by checking the image enlargement indicator shown at the bottom left of the LCD monitor. (If the image is not an enlarged view, the indicator will not be displayed.) You can also check the area of enlargement.
 - Movie clips and WAV files can't be enlarged.
 - If an image is enlarged, a loss of quality may occur.





Thumbnail(]]) / Enlargement(Q) button

• The maximum enlargement rate in proportion to the image size.

Image size	2272	2048	1600	1024	640
Maximum enlargement rate	×8.8	×8.0	×5.3	×4.0	×2.2

- Trimming : You can extract part of the image that you want and save it separately.
 - 1. Select an image that you want to enlarge and press the enlargement button.
 - Different parts of the image can be viewed by pressing the 5 function button.
 - 3. Press the MENU button and a message will be displayed as shown alongside.



- 4. Press the OK button to save the trimmed image with a new file name. The trimmed image will be displayed on the LCD monitor. Press the LEFT button to return to the image before it was selected.
 - If there is little memory space to save the trimmed image, the image can't be trimmed.

Voice (🖢) memo / Up button

- When the menu is displayed on the LCD monitor, pressing the UP button makes the menu cursor move up.
- When the menu is not displayed on the LCD monitor, the UP button operates as the voice memo button. You can add your audio to a stored still image.
- Adding a Voice Memo to a Still Image
 - 1. Press the LEFT/ RIGHT button to select an image that you wish to add sound to.
 - 2. Press the voice memo button (\bigcup) and the voice memo indicator will display. The camera is now ready to record a voice memo.



Voice (🖢) memo / Up button

- Press the shutter button to start recording. The [REC] message will be displayed on the LCD monitor (as shown) and voice will be recorded to the still image for 10 seconds.
- 4. The recording can be stopped by pressing the shutter button again.
- The () icon will be displayed on the LCD monitor after voice memo recording has finished.
 - Voice memos can't be recorded onto movie clip files.
 - A distance of 40cm between you and the camera (microphone) is the best distance to record sound.
 - The voice memo will be saved in *.wav format, but has the same file name as the still image to which it corresponds.





 If you add a new voice memo to the still image that already has a voice memo, the existing voice memo will be erased.

Play & Pause (CMD)/ Down button

- In Play mode, the play & pause/ down button works as follows:
 - If the menu is displayed

Press the DOWN button to move from the main menu to a sub menu, or to move down the sub menu cursor.

- If a still image with a voice memo, a voice file, or a movie clip is playing
 - In Stop mode : Plays a still image with a voice memo, a voice file, or a movie clip.

During playback : Temporarily stops playback.

In Pause mode : Resumes playback



[Voice recording is stopped]



[Voice file is playing]



[Voice recording is paused]

LEFT / RIGHT/ MENU/ OK button

■ LEFT / RIGHT/ MENU/ OK buttons activate the following.

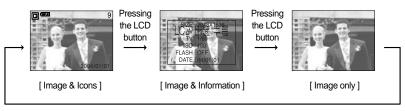
- LEFT button : While the menu is showing, press the LEFT button to select the menu tab to the left of the cursor.
- RIGHT button : While the menu is showing, press the RIGHT button to select the menu tab to the right of the cursor, or to move an auxiliary menu.
- MENU button : When you press the MENU button, the play mode menu will be displayed on the LCD monitor. Pressing it again will return the LCD to the initial display.
- OK button : When the menu is displayed on the LCD monitor, the OK button is used for confirming data that is changed by using the 5 function button.

LCD button

The shooting information will be displayed on the LCD monitor.

The last image stored in the memory is displayed on the LCD monitor by pressing the play mode button. Pressing the LCD button in the PLAY () mode will change the display as shown below. [Image & Icons] \rightarrow [Image & Information] \rightarrow [Image only]





Pressing the LCD button

Delete (🏠) button

- This deletes images stored on the memory card.
- Deleting Images in Play Mode
 - 1. Select an image that you want to delete by pressing the LEFT / RIGHT button and press the DELETE (🏠) button.
 - A message will display as shown alongside on the LCD monitor.
 - Press the OK button to delete the image. The image that precedes the deleted one will then be displayed on the LCD monitor.





INFORMATION

 Before deleting images from the camera, you should protect (p.52) or download images (p.84) to your computer that you wish to keep.

Setting up the play back function using the LCD monitor

PLAY mode functions can be changed by using the LCD monitor.
 In the PLAY mode, pressing the MENU button displays the menu on the LCD monitor.
 The menus you can set up in Play mode are as follows.
 To capture an image after setting up the play menu, press the PLAY button.

The items indicated by are default settings.

Menu tab	Main menu	Sub menu	Secondary menu	Page	
		INTERVAL	OFF/ 1~10SEC		
	SLIDE	REPEAT	ON/OFF	p. 53	
		EFFECT	CANCEL/ EFFECT1, 2, 3, 4		
	PROTECT	SELECT	UNLOCK/ LOCK	∽ <i>⊑ 4</i>	
	PROTECT	ALL PICS	UNLOCK/ LOCK	p. 54	
	DELETE	SELECT		. 54	
H	DELETE	ALL PICS		p. 54	
		1280X960			
	RESIZE	800X600		p. 57	
		LOGO			
		CANCEL			
	ROTATE	RIGHT		- p. 59	
E	ROTATE	LEFT			
		UPDOWN			
		STANDARD	SELECT/ ALL PICS/ CANCEL		
	DPOF	INDEX	NO/ YES	n 50	
		SIZE	DEFAULT, 3X5, 4X6, 5X7, 8X10, CANCEL	p. 59	
	COPY TO MS	SELECT			
	COPTIONS	ALL PICS		n 60	
	COPY TO SD	SELECT		p. 69	
	COFT 10 3D	ALL PICS			

* Menus are subject to change without prior notice.

Starting the slide show

Images can be displayed continuously at pre-set intervals. You can view the slide show by connecting the camera to an external monitor.

- Configure the interval for the slide show: Configure the length of time to display each picture in the slide show.
 - 1. Press the play mode button and press the menu button.
 - 2. Press the LEFT/ RIGHT button and select the [SLIDE] menu tab.
 - Select the [INTERVAL] sub menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Use the Up/Down Button to establish the display interval. - Slide Show Display Interval : OFF, 1 ~10 seconds



5. Use the Right Button to start the slide show. Use the Pause () Button to pause and resume the slide show.

INFORMATION

- The loading time depends on the image size and quality.
- The slide show will start from an image that was displayed on the LCD monitor. The [PWR OFF] function can't be activated.
- While the slide show is playing, only the first frame of an MOVIE file is displayed.
- Configure slide show repeat mode: Automatically restart the slide show after displaying all pictures.

Steps 1 and 2 are the same as for the [INTERVAL] section.

- Select the [REPEAT] sub menu by pressing the UP/ DOWN button and press the RIGHT button.
- 4. Use the Up/Down Button to select the repeat mode.
 - [ON] : The slide show will repeat until turned off.
 - [OFF] : The slide show will not repeat after the first showing.
- 5. Press the OK button to confirm the setting.
- * Please reset the play interval to start the slide show.



Starting the slide show

- Configure slide show effects: Unique screen effects can be used for the slide show. Steps 1 and 2 are the same as for the [INTERVAL] section.
 - 3. Select the [EFFECT] sub menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Use the Up/Down Button to select the type of effect.
 - [OFF] : Normal display
 - [EFFECT 1] : Image is displayed slowly
 - [EFFECT 2] : Image is displayed slowly from the center outwards
 - [EFFECT 3] : Image moves from the top left
 - [EFFECT 4] : Image moves from the bottom right
 - 5. Press the OK button to confirm the setting.
 - * Please reset the play interval to start the slide show.



Protecting images

- This is used to protect specific shots from being accidentally erased (LOCK). It also unprotects images that have been previously protected (UNLOCK).
- Protecting Images
 - 1. Press the play mode button and press the menu button.
 - 2. Press the LEFT/ RIGHT button and select the [PROTECT] menu tab.
 - 3. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.

[SELECT]: Selection window for an image to protect/release is displayed.

Up/Down/Left/Right: Select an image Zoom W/T Button: Protect/release the image Menu Button: The menu screen is changed to the play mode screen

[ALL PICS]: Protect/release all saved images Zoom WT Button: Protect/release the images Menu Button: The menu screen is changed to the play mode screen



Protecting images

- If you protect an image, the protect icon will be displayed on the LCD monitor. (An unprotected image has no indicator)
- An image in LOCK mode will be protected from the delete function or [DEL. ALL] functions, but will NOT be protected from the [FORMAT] function.



Deleting images

- Of all the files stored in the memory card, the unprotected files in the DCIM subfolder will be deleted. Remember that this will permanently delete unprotected images. Important shots should be stored on a computer before deletion takes place. The startup image is stored in the camera's internal memory (i.e., not on the memory card) and it will not be deleted even if you delete all files on the memory card.
- Deleting images
 - 1. Press the play mode button and press the menu button.
 - 2. Press the LEFT/ RIGHT button and select the [DELETE] menu tab.
 - 3. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.

[SELECT]: Selection window for an image to delete is displayed.

Up/Down/Left/Right: Select an image

Zoom T Button: Select the image for deletion.

OK Button: Press the Ok Button to display confirmation message

Press the OK Button again to delete all unprotected images

If there aren't protected images, all the images are deleted and a [NO IMAGE!] message will display.

[ALL PICS]: Displays confirmation window

Press the OK Button again to delete all unprotected images

If there aren't protected images, all the images are deleted and a [NO IMAGE!] message will display.

4. After the deletion, the screen will be changed to the play mode screen.







Resize

- Change resolution (size) of pictures taken. Select [Logo] to save an image for the start-up image. The resized image will have a new file name.
 - 1. Press the play mode button and press the menu button.
 - Press the LEFT/ RIGHT button and select the [RESIZE] menu tab.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button. [RESIZE] sub menu : 1280X960, 800X600, LOGO



Size	1280X960	800X600	LOGO
2272	0	0	0
2048	0	0	0
1600	0	0	0
1024	Х	0	0
640	Х	Х	0

Image Resize Types

- A large sized image can be resized to a smaller sized image, but not vice versa.
- Only still image(JPEG) images can be resized. Movie clip (AVI) and Voice recording(WAV) files can't be resized.
- You can change the resolution of only those files compressed in the JPEG 4:2:2 format.
- The resized image will have a new file name. The [LOGO] image is stored not on the memory card but on the internal memory.
- Only one [LOGO] image can be saved. If you save a new [LOGO] image, the existing startup image will be deleted.
- If the memory capacity is insufficient to store the resized image, a [CARD FULL!] message will display on the LCD monitor and the resized image will not be stored.

Rotating an image

- You can rotate the stored images by 90, 180, or 270 degrees.
 - 1. Press the play mode button and press the menu button.
 - Press the LEFT/ RIGHT button and select the [ROTATE] menu tab.
 - Select a desired sub menu by pressing the UP/ DOWN button.

[CANCEL]	: Cancel rotation
[RIGHT]	: Rotate picture in a clock-wise direction
[LEFT]	: Rotate picture in a counter-clock-wise direction
[UPDOWN]	: Rotate picture 180 degrees



[Picture after 90 degrees CW rotation]



Picture after 90 degrees CCW rotation





Picture after 180 degrees rotation

4. Press the OK button. The rotated image will be displayed and the menu will disappear. If you display the rotated image on the LCD monitor, empty spaces may appear to the left and right of the image.

DPOF

- DPOF(Digital Print Order Format) allows you to embed printing information on your memory card's DCIM/MISC folder. Select the pictures to be printed and how many prints to make.
- The DPOF indicator will display on the LCD monitor when an image that has DPOF information plays back. Images can then be printed on DPOF printers, or at an increasing number of photo labs.
- This function is not available for Movie clips and Voice recording files.

DPOF : STANDARD

This function allows you to embed print quantity information on a stored image.

- 1. Press the play mode button and press the menu button.
- Press the LEFT/ RIGHT button and select the [DPOF] menu tab.
- 3. Select the [STANDARD] menu by pressing the UP/ DOWN button and press the RIGHT button.
- Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 [SELECT]: Selection window for an image to print is

displayed. Up/Down/Left/Right: Select an image to print Zoom W/T Button: Select the number of prints [ALL PICS] : Configure number of prints for all pictures except movie and voice.

[CANCEL] : Cancel the print setup

5. Press the OK button to confirm the setting. If an image carries DPOF instructions, the DPOF indicator () will show.







DPOF : INDEX

Images (except for movie clips and voice file) are printed as index type.

- 1. Press the play mode button and press the menu button.
- Press the LEFT/ RIGHT button and select the [DPOF] menu tab.
- Select the [INDEX] menu by pressing the UP/ DOWN button and press the RIGHT button.
- Select a desired sub menu by pressing the UP/ DOWN button.

If [NO] is selected : The image will be printed in standard print format. If [YES] is selected : The image will be printed in index format.

- If [YES] is selected : The image will be printed in index to
- 5. Press the OK button to confirm the setting.



DPOF : PRINT SIZE

- You can specify the print size when printing images stored on the memory card. The print size you set will be applied to all pictures stored on the memory card.
- Setting the Print Size
 - 1. Press the play mode button and press the menu button.
 - Press the LEFT/ RIGHT button and select the [DPOF] menu tab.
 - 3. Select the [PRINT SIZE] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button.



PRINT SIZE : DEFAULT, 3X5, 4X6, 5X7, 8X10, CANCEL

The [DEFAULT] print size varies depending on the printer manufacturer.

For your printer's default value, please refer to the user's guide that came with your printer.

5. Press the OK button to confirm the setting.

Copy Picture

The camera has multi memory slots for both SD Memory Cards (Multimedia Card) and Memory Stick DUO. Copy contents from one memory card to another while both memory slots are loaded. [COPY TO MS] menu will be displayed if the current card is an SD Memory Card (Multimedia Card). [Copy to SD (MMC)] menu will be displayed if the current card is a Memory Stick DUO. This description is for copying images from an SD Memory Card to Memory Stick DUO.

Copy Pictures

- 1. Press the play mode button and press the menu button.
- 2. Press the LEFT/ RIGHT button and select the [COPY TO MS] menu tab.
- Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.

[SELECT]: Selection window for an image to copy is displayed.

Up/Down/Left/Right: Select an image Zoom T Button: Confirm the selection Menu Button: Start copying [ALL PICS] All images are copied after displaying [PLEASE WAIT!]

4. After copying, the screen will returnk to play mode.



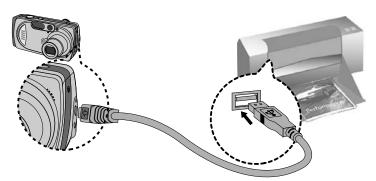
- All memory slots need to be loaded for the function.
- If the destination is smaller than the source, the remaining files are not copied. Please delete unneeded files to free up enough memory space before copying.
- A 101SSCAM folder will be created for the copying, to avoid duplication of the 100SSCAM folder. The number in front of the "SSCAM" will increase for each copying operation (ex. 100SSCAM, 101SSCAM, 102SSCAM ···)

PictBridge

- You can use the USB cable to connect this camera to a printer that supports PictBridge (sold separately) and print the stored images directly. Movie clips and voice files cannot be printed.
- Connecting the Camera to a Printer
 - 1. Press the POWER button to turn on the camera.
 - 2 In a mode with the exception of Voice Recording mode, press the MENU button.
 - 3. Press the LEFT/ RIGHT button and select [SETUP] menu tab.
 - 4. Select [USB] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select [PRINTER] menu by pressing the UP/ DOWN button and press the OK button.
 - Press the menu button twice and the menu will disappear.



- 7. Use the supplied USB cable to connect the camera to the printer as shown below.
- 8. Turn on the printer to connect the camera to the printer.



% If [COMPUTER] is selected at step 5, the camera will not connect to the printer, and the autofocus LED will just blink green.

If this happens, disconnect the USB cable and start over from step 2.

PictBridge

- Print pictures
 - Connect the camera to the printer to display the screen. If [USB] submenu in the Setup menu is configured as [COMPUTER], the previous screen will remain and the camera will not connect to the printer. If this happens, change the [USB] submenu to [PRINTER] (See page 62)
 - After a successful connection, the PictBridge icon will show at the top left of the LCD and the file to print is displayed (still image)

Press the Left/Right button to select a picture to print Press the OK button to print the selected picture

Print Error

Printing is available even if this message is displayed while printing. Please check the camera and the printer after printing.

If this message is displayed while printing, please press the OK button and repeat step 2.





NOW PRINTING



CONNECTING ...

USB I/F : PRINT

Setup menu

■ In this mode, you can set up basic settings.

You can use the setup menu in all camera modes, except Voice Recording mode. The items indicated by are default settings.

Menu tab	Main menu	Sub menu	Secondary menu	Page	
	FILE	RESET		p.65	
		SERIES			
	PWR OFF	OFF, 1 ~ 3 ~ 10MIN		p.65	
	LANGUAG			p.66	
		NO			
SET	FORMAT	YES		p.66	
0		04/01/01 13:00			
	D & TIME			p.67	
		YY/MM/DD		p.67	
-		MM/DD/YY			
		DD/MM/YY			
	IMPRINT	OFF		p.67	
		DATE			
		D&TIME			
	SOUND	OFF			
		LOW			
		MEDIUM		- p.69	
		HIGH			

Setup menu

Menu tab	Main menu	Sub menu	Secondary menu	Page	
	LCD	DARK			
		NORMAL		p.69	
		BRIGHT			
		NTSC		7.0	
	VIDEO	PAL		p.70	
PET	Q.VIEW	OFF, 1, 2, 3SEC		p.71	
SET		NO		n 71	
	RESET	YES		p.71	
	CARD SEL.	SD/MMC		p.71	
		MS DUO		p.71	
	USB	COMPUTER		- 71	
		PRINTER		p.71	

File name

- This function allows the user to select the file naming format.
- Assigning File Names
 - 1. In any mode with the exception of Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [FILE NAME] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.



- [RESET] : After using the reset function, the next file name will be set from 0001 even after formatting, deleting all or inserting a new memory card.
- [SERIES] : Under this system, the file name will directly follow the last stored file name, regardless of any actions such as file deletion or formatting.
- 5. Press the menu button twice and the menu will disappear.

File name

INFORMATION

- The first stored folder name is 100SSCAM, and the first file name is S4300001.
- Whenever you store an image, the file number is increased by 1.
- The file numbers are named from S4300001 to S4309999 automatically, 9999 files will be stored in a folder.
- The folder number is assigned sequentially from 100 to 999 as follows : $100SSCAM \rightarrow 101SSCAM \rightarrow ... \rightarrow 999SSCAM.$
- The files used with the memory card conform to the DCF(Design rule for Camera File systems) format.

Auto power off

- This function switches the camera off after a set amount of time in order to prevent unnecessary battery drainage.
- Setting Power Off
 - 1. In any mode with the exception of Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [PWR OFF] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 Selecting [OFF] : The power off function will not operate.
 [1~10 MIN]: The power will turn off automatically if not used for the period of time specified.
 - 5. Press the menu button twice and the menu will disappear.



- Even if the batteries or AC adapter are removed and inserted again, the power off setting will be preserved.
- Note that the automatic power off function will not operate if the camera is in PC mode, slide show, playing back a voice recording or movie clip.

Language

- There is a choice of languages that can be displayed on the LCD monitor. Even if the batteries or AC adapter are removed and inserted again, the language setting will be preserved.
- Setting Language
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [LANGUAGE] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.

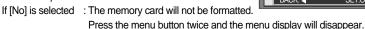
LANGUAGE sub menu: Korean, English, French,

German, Spanish, Italian, T.Chinese, S.Chinese, Japanese, Russian, Portuguese, Dutch, Danish, Swedish, Finnish, Thai.

5. Press the menu button twice and the menu will disappear.

Formatting a memory card

- This is used for formatting the memory card. If you run [FORMAT] on the memory card, all images, including the protected images, will be deleted. Be sure to download important images to your PC before formatting the memory card.
- Formatting a Memory Card
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [FORMAT] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.



If [Yes] is selected : A [PLEASE WAIT!] message appears and the memory card will be formatted. If you ran FORMAT in Play mode, a [NO IMAGE!] message will appear.

- Be sure to run [FORMAT] on the following types of memory card.
 - A new memory card, or an unformatted memory card.
 - A memory card that has a file this camera can't recognize or one that has been taken from another camera.
- Always format the memory card using this camera. If you insert a memory card that has been formatted using other cameras, memory card readers, or PCs, you will get a [CARD ERROR!] message.





Setting up the Date/ Time/ Date type

- You can change the date and time that will be displayed on the captured images and set up the date type.
- Setting Date/Time & Selecting Date Format
 - 1. In any mode with the exception of Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - Select the [D&TIME] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Use the UP, DOWN, LEFT, and RIGHT buttons to select the desired submenu value, and then press the OK button. RIGHT button: Selects the year/month / day/hour / minute date format.



LEFT button: Moves the cursor to the [D&TIME] main

menu if the cursor is at the first item of the date and time setup.

In all other cases, the cursor will be shifted to the left of its current position.

UP and DOWN buttons: Changes the setting value.

- Date type : [YY/MM/DD] /[MM/DD/YY]/[DD/MM/YY]
- 5. Press the menu button twice and the menu will disappear.

Imprinting the recording date

- There is an option to include DATE/TIME on still images.
- Date Imprinting
 - 1. In any mode with the exception of Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [IMPRINT] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Use the UP and DOWN buttons to select the desired date imprint type, and then press the OK button.
 - [OFF] : The DATE & TIME will not be imprinted on the image file.



[DATE] : Only the DATE will be imprinted on the image file.

[D&TIME] : The DATE & TIME will be imprinted on the image file.

5. Press the menu button twice and the menu will disappear.

- The Date & Time are imprinted at the bottom right side of the still image.
- The date will be imprinted as a DATE TYPE setting.
- TIME is imprinted in the following way : [Hour : Minute] and hours are shown using the 12 hour clock.
- The imprint function is applied only to still images.

Sound

- If you set the operation sound to ON, various sounds will be activated for camera startup, when button are pressed, and if there is a card error, so that you can be aware of the camera operation status.
- Setting Operation Sounds
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - Select the [SOUND] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - [SOUND] sub menu : OFF/LOW/MEDIUM/HIGH
 - 5. Press the menu button twice and the menu will disappear.



- You can adjust the LCD brightness.
- Adjusting LCD Brightness
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [LCD] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - [LCD] sub menu : DARK, NORMAL, BRIGHT
 - 5. Press the menu button twice and the menu will disappear.



SETUP

ON

OFF

SET:OK

D & TIME

IMPRINT

SOUND

BACK: <

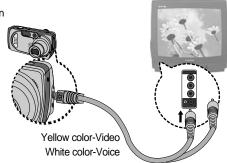
Selecting Video out type

The Movie output signal from the camera can be NTSC or PAL. Your choice of output will be governed by the type of device (monitor or TV, etc.) to which the camera is connected. PAL mode can support only BDGHI.

- Setting the Video Out Type
 - In any mode other than Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - Select the [VIDEO] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - [VIDEO] sub menu : NTSC, PAL
 - 5. Press the menu button twice and the menu will disappear.
- Connecting to an external monitor

In RECORDING/ PLAY mode, you can view the stored still images or movie clips by connecting the camera to an external monitor via the A/V cable. When the camera is connected to an external monitor, the LCD monitor will be turned off automatically.





- NTSC : U.S.A, Canada, Japan, South Korea, Taiwan, Mexico.
- PAL : Australia, Austria, Belgium, China, Denmark, Finland, Germany, U.K., Holland, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.
- When using a TV as an external monitor, you will need to select the external or AV channel of the TV.
- There will be a digital noise on the external monitor, but it is not a malfunction.
- If the image is not in the centre of the screen, use the TV controls to centre it.
- When the camera is connected to an external monitor, the menu will be visible on the external monitor and the menu functions are the same as those indicated on the LCD monitor.

Quick view

- If you enable Quick View before capturing an image, you can view the image you just captured on the LCD monitor for the duration set in the [Q.VIEW] setup. Quick view is possible only with still images.
- Setting Quick View
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - Select the [Q.VIEW] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.



- [OFF] : The quick view function can't be activated.
- [1 ~ 5 SEC] : The captured image is briefly displayed during the selected time.
- 5. Press the menu button twice and the menu will disappear.

Initialization(RESET ALL)

- All camera menu and function settings will be restored to their default values. However, values for DATE/TIME, LANGUAGE, and VIDEO OUT will not be changed.
- Initializing the Camera
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - Select the [RESET] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 If [NO] is selected : Settings will not be restored to their defaults.
 If [YES] is selected : All settings will be restored to their defaults.
 - 5. Press the menu button twice and the menu will disappear.



Select card

- The camera has multi memory slots for an SD Memory Card (Multi Media Card) and Memory Stick Duo. Select memory card to use when both memory slots are loaded with a memory card.
- Memory card selection
 - 1. In any mode with the exception of Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [SEL.CARD] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Use the UP and DOWN buttons to select the desired date imprint type, and then press the OK button.
 [SD/MMC] : Selects SD card or Multi Media Card
 [MS DUO] : Selects Memory Stick DUO
 - 5. Press the menu button twice and the menu will disappear.

INFORMATION

- Where only an SD Memory Card or Multi Media Card is loaded, the camera will use the SD Memory Card or Multimedia Card even if the [MS DUO] option is selected.
- Configure the submenu of the [CARD SEL.] menu to use the free space in the auxiliary memory card when a [CARD FULL !] message is displayed.

Connecting an External Device (USB)

- You can select an external device to which you want to connect the camera using the USB cable.
- Selecting an External Device
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - 2. Press the LEFT/ RIGHT button and select the [SETUP] menu tab.
 - 3. Select the [USB] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - COMPUTER : Select this if you want to connect the camera to your PC. Refer to page 83 for instructions on how to connect the camera to your PC.
 - PRINTER : Select this if you want to connect the camera to your printer. Refer to page 58 for instructions on how to connect the camera to your printer.
 - 5. Press the menu button twice and the menu will disappear.





Setting up the MYCAM menu

You can set up a start up image, start up sound and shutter sound. Every camera working mode (with the exception of Voice recording mode) has the MyCAM menu.

Menu tab	Main menu	Sub menu			Page
20	S.IMAGE -	OFF	USER MAGE	IMAGE 1	P.75
		IMAGE 2		IMAGE 3	1.75
	S.SOUND -	OFF		SOUND 1	P.76
		SOUND 2		SOUND 3	1.70
		OFF		SOUND 1	P.76
	SH.SOUND	sou	ND 2	SOUND 3	г.70

Start up image

- You can select the image that is first displayed on the LCD monitor whenever the camera is turned on.
- Setting a Startup Image
 - 1. In any mode with the exception of Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [MyCAM] menu tab.
 - Select the [S.IMAGE] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - 5. Press the menu button twice and the menu will disappear.

SIMAGE S.SOUND SH-SOUD SH-SOUD BACK:

- Use a saved image for the start-up image with the [LOGO] in the [RESIZE] menu in the play mode.
- The start-up image will not be deleted by deleting all images or [FORMAT] menu.

Start up sound

- You can select the sound that is activated whenever the camera is turned on.
- Setting the Startup Sound
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [MYCAM] menu tab.
 - Select the [S.SOUND] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - 4. Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - 5. Press the menu button twice and the menu will disappear.



Shutter sound

- You can select the shutter sound.
- Selecting the Shutter Sound
 - 1. In any mode other than Voice Recording mode, press the MENU button.
 - Press the LEFT/ RIGHT button and select the [MYCAM] menu tab.
 - 3. Select the [SH.SOUND] menu by pressing the UP/ DOWN button and press the RIGHT button.
 - Select a desired sub menu by pressing the UP/ DOWN button and press the OK button.
 - 5. Press the menu button twice and the menu will disappear.

MYC	MYCAM				
S.IMAGE	OFF				
S.SOUND	SOUND 1				
SH.SOUD	SOUND 2				
BACK: ┥	SET:OK				

Important notes

Be sure to observe the following precautions!

- This unit contains precision electronic components. Do not use or store this unit in the following locations.
 - Areas exposed to severe changes in temperature and humidity.
 - Areas exposed to dust and dirt.
 - Areas exposed to direct sunlight or the inside of a vehicle in hot weather.
 - Environments where there is high magnetism or excessive vibration.
 - Areas with high explosives or highly flammable materials.
- Do not let the unit come into contact with dust, vinyl goods, or chemicals, such as insecticides, for an extended period of time.
- Sand can be particularly troublesome to cameras.
 - Do not let sand get inside the unit when using it on beaches, coastal dunes, or other areas where there is lots of sand.
 - Doing so may result in failure or may permanently render the unit unusable.
- Extremes in temperature may cause problems.
 - If the camera is transferred from a cold to a warm and humid environment, condensation can form on the delicate electronic circuitry. If this occurs, turn the camera off and wait for at least 1 hour until all moisture is dispersed. Moisture build up can also occur in the memory card. If this happens, turn off the camera and remove the memory card. Wait until the moisture has dispersed.
- Caution on Using the Lens
 - If the lens is subjected to direct sunlight, it could result in discoloration and deterioration of the image sensor.
 - Pay attention not to get fingerprints or foreign substances on the surface of the lens.
- If the digital camera is not used for a long period, an electric discharge can occur. It is a good idea to remove the batteries and the memory card if you do not intend using the camera for an extended period of time.

Important notes

- If the camera is exposed to an electronic interference, it will turn itself off to protect the memory card.
- Camera Maintenance
 - Use a soft brush (available from photo stores) to gently clean the lens and LCD assemblies.
 If this does not work, lens-cleaning paper with lens cleaning fluid can be used.
 Clean the camera body with a soft cloth. Do not allow this camera to come into contact with solvent materials such as benzol, insecticide, thinners etc. This may damage the body shell of the camera and also affect its performance. Rough handling can damage the LCD monitor. Take care to avoid damage and keep the camera in its protective carry case at all times when not in use.
- Do not attempt to disassemble or modify the camera.
- Under certain conditions, static electricity can cause the flash unit to fire. This is not harmful to the camera and is not a malfunction.
- When images are uploaded or downloaded, the data transfer may be affected by static electricity. In this case, disconnect and re-connect the USB cable before trying the transfer again.

Warning indicator

There are several warnings that may appear on the LCD display

Warning indicator	Causes	Remedy
CARD ERROR !	- Memory card error	 Turn off the camera power and turn it on again Insert the memory card again Format the memory card (p.66)
CARD FULL !	- There is insufficient memory capacity to take an image	 Insert a new memory card Delete unnecessary image files to free up some memory
NO IMAGE !	- There are no images stored on the memory card	 Take images Insert a memory card that is holding some images
NO CARD !	 A memory card is not inserted The camera can't recognize the memory card 	 Insert a memory card Insert the memory card again Turn off the camera power and turn it on again
FILE ERROR !	- File error - Memory card error	- Format the memory card - Contact a camera service center
LOW BATTERY !	- There is low battery capacity	- Insert fresh batteries
CARD LOCKED !	- The memory card is locked	 MS DUO : Slide the write protect switch to the bottom of the memory card. SD : Slide the write protect switch to the top of the memory card.
LOW LIGHT !	- When taking pictures in dark places	- Use a tripod and take pictures in Flash Photography mode

Before contacting a service center

Please check the following

Symptom	Causes	Remedy
The camera doesn't switch on	 There is low battery capacity An AC Power Adapter is not connected Batteries are inserted incorrectly with the 	 Insert fresh batteries Connect an AC Power Adapter Insert the batteries according to the polarity marks (+, -).
The camera power ceases whilst in use	 reverse polarities. The batteries are exhausted The Camera is turned off automatically. The Adapter plug is not connected securely 	 Insert fresh batteries Slide the power switch to reactivate camera Remove and re-insert the plug
Batteries drain quickly	- The Camera is being used in low temperatures	- Keep the camera in warm conditions (i.e. inside a coat or jacket) and only remove it in order to take images
Camera does not take images when pressing the Shutter button	 The memory card is not inserted There is insufficient memory capacity The memory card has not been formatted The memory card is exhausted The camera's power is off The batteries are exhausted The memory card is locked Batteries are inserted incorrectly with the reverse polarities. 	 After turning the camera off, insert a new memory card Delete unnecessary image files Format the memory card (p.66) Insert a new memory card Turn the camera power on Insert fresh batteries Refer to [CARD LOCKED!] error message(p.82) Insert the batteries according to the polarity marks (+, -).
The camera suddenly stops working while in use.	- The camera was stopped due to a malfunction	- Remove /re-insert batteries and switch the camera on

Before contacting a service center

Symptom	Causes	Remedy
The images are unclear	 A picture was taken within 0.8 m from the subject without setting an appropriate macro mode. Taking a picture beyond the flash range The lens is smudged or dirty. 	 If the subject is closer than 0.8m, select macro shot mode. Take a picture within the flash range Clean the lens
The flash does not fire	- Flash off mode has been selected	- Dis-engage flash off mode
Incorrect date and time is displayed	- The date and time have been set incorrectly or the camera has adopted the default settings	- Reset the date and time correctly
The camera buttons do not operate	- Camera malfunction	- Remove /re-insert batteries and switch the camera on
A card error has occurred while the memory card is in the camera.	- Incorrect memory card format	- Re-format the memory card (p.66)
The images don't play back	- Incorrect file name. (Violation of DCF format)	- Do not change the image file name.

Before contacting a service center

Symptom	Causes	Remedy
Colour of image is different to the original scene	- White balance setting is incorrect.	- Select appropriate White balance.
Images are too bright	- Exposure is excessive.	- Reset exposure compensation.
No image on external monitor	 The external monitor has not been connected properly with the camera. There are incorrect files in the memory card. 	 Check the connection cables. Insert a memory card that has correct files.
When using the PC's explorer, the [Removable Disk] file does not show	 Cable connection is incorrect. The camera is off. There are no batteries, the batteries are exhausted or the AC adapter is not connected. The operating system is not Windows 98, 98SE, 2000, ME, XP/ Mac OS 9.0~10.2. Alternatively the PC does not support USB. The USB driver is not installed. 	 Check the connection. Turn the camera on. Insert new batteries or check the adapter connection. Install Windows 98, 98SE, 2000, ME, XP/ Mac OS 9.0~10.2 to PC that supports USB. Install a [USB Storage Driver].